

KLE Academy of Higher Education & Research

Nehru Nagar, Belagavi - 590010, Karnataka, India.



KLE
UNIVERSITY
EMPOWERING PROFESSIONALS

SELF STUDY REPORT

CYCLE - 2

Volume - I

PROFILE OF THE INSTITUTION AND CRITERIA-WISE INPUTS

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NAAC-SELF STUDY REPORT

VOLUME I : Cycle-2

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FOREWORD

It gives me immense pleasure in presenting the Self-Study Report of KLE Academy of Higher Education and Research, Belagavi, Karnataka to National Assessment and Accreditation Council (NAAC) for institutional re-accreditation. It was in March, 2010, that the KLE Academy of Higher Education and Research was awarded ‘A’ Grade (CGPA-3.16) by NAAC. The University is also placed in **Category ‘A’** by the **Ministry of Human Resource Development**, Government of India. The Jawaharlal Nehru Medical College is recognized as **Regional Nodal Centre** by Medical Council of India for training of the trainers. All the three constituent colleges of Pharmacy are accredited by **National Board of Accreditation (NBA)**. The College of Pharmacy at Belagavi is the **National Nodal Centre** of AICTE for **Quality Improvement Program (QIP)** for Pharmacy teachers. The Hi-tech Pathological Laboratory of KLES Dr. Prabhakar Kore Hospital and Medical Research Centre, Belagavi has been accredited by **National Accreditation Board for Testing and Calibration Laboratories (NABL)**.

The University, keeping in view the social needs, has started several new academic programs based on the approval accorded by the statutory bodies of the University. The University strictly adheres to the norms of the respective Regulating Councils as regards to admission of students to various Under-Graduate, Post-Graduate (Degree and Diploma) and Super-specialty courses. The University conducts All India Entrance Tests at various centres across the country for admission of the students to the aforesaid courses based on the merits earned by them in the respective entrance tests. The University, with a view to ensure transparency in the admissions, adopts bio-metric verification of the students both, during the conduct of entrance test and also the counselling process.

Research has been a major focus of the University which has resulted into huge number of excellent studies that have generated voluminous amount of scientific data, published in several national and international journals of great repute with good impact factor. The University has been adhering to the UGC (Minimum Standards and Procedure for the award of M.Phil. / Ph.D. Degree) Regulations 2009 for the admission and award of Ph.D. Degree to the students. The University has entered into agreement with several national and international bodies to further the cause of research and today, carrying several important studies with financial support from organizations like NIH (USA), WHO, Clinton Foundation, ICMR, Department of AYUSH, NIV, CCIM, AICTE, VGST, Department of Atomic Energy, etc. Significantly, the University has received a grant of over Rs.30.00 crores from NIH and has been identified as a **Global Site for Women’s and Children’s Health Research**. The KLES Dr Prabhakar Kore Hospital & Medical Research Centre, Belagavi is recognized as the nucleus of several international drug trials. The University truly, today is amongst the best academic centres when

it comes to health research especially, in a community-based setting. The University is committed in translating this research into concrete solution to the harsh realities of health delivery in our country.

The Hospital and Research Foundation over the years have established a firm foundation of **Public Private Partnership model (PPP)** to deliver health care services to community.

The KLE Dr. Prabhakar Kore Basic Health Science Research Centre (BSRC) has firmly established its roots now and the scientists are actively involved in quality research, round-the-clock. BSRC conducts workshops throughout the year for the benefit of the research scholars and post-graduate students.

The University with a view to encourage and promote research activities has introduced a number of innovative schemes like Best Ph.D. Thesis Award, Cash Award for publication of research papers / text book, cash incentive for getting financial grant from other funding agencies, etc. The University has also introduced novel scheme not only to encourage faculty members to undertake research, but also to encourage self-support for the students while they are learning, by implementing 'Earn While You Learn' Scheme to the students belonging to economically weaker sections.

The University comes out with two Calendar of Events viz. **Annual Calendar of Events**, depicting the activities / programs including meetings to be convened throughout the year and the **Academic Calendar of Events** depicting the academic events of each course which include commencement of classes, examination schedule, etc. so as to facilitate the staff members and students to plan and prepare for their academic activities. The University has adopted reforms in the examinations which include MCQs for annual University examinations, validation of MCQs and MCQs Question Banks, etc.

Jawaharlal Nehru Medical College, a constituent unit of the University recently celebrated its golden jubilee on completion of 50 years of dedicated service which reached its culmination with several academic, social and cultural activities. The valedictory function was graced by Hon. Shri Narendra Modiji on 19th December, 2013. The College conducted several health check-up camps over the last year which has served thousands of poor and deprived sections of the society. The social commitments by our constituent units have been well-appreciated by every section of the society.

The major infrastructural facilities provided recently by the University for the benefit of the staff, students and public at large include Convention Centre of international standard in the campus, international standard swimming pool, KLE Venudhwani (Community Radio Station), Basic Health Science Research Centre, Burn Ward, Clinical Skill and Hi-Tech Laboratories in the Hospital, etc.

The University with a view to encourage the students to participate in various sports, cultural and literary activities organizes **TRINITY** (Inter-collegiate Sports, Cultural and Literary Fest) and **HUMBO** (Annual Sports Meet of the University). The constituent colleges of the University bring out College Magazines depicting the academic, professional and literary contributions from the students and the staff members. The University also encourages the students to participate at Inter-University competitions in various sports and cultural activities conducted by Association of Indian Universities (AIU). The University follows a strict anti-ragging policy and has adopted several unique initiatives to ensure the safety of its students. The University has developed a **model code of conduct** which prevents indisciplined behaviour on the part of the students.

The KLE Academy of Higher Education and Research is committed to academic and research excellence. The academic, professional and cultural activities conducted by the University have brought the campus to life and has made it an experience worth remembering for every stakeholder of the University. I am sincerely of the belief that we are today on the right path towards the fulfilment of Vision-2020 Document of the University.

Prof. (Dr) Chandrakant Kokate
Vice-Chancellor,
KLE Academy of Higher Education
and Research,
Belagavi, Karnataka

LIST OF ABBREVIATIONS

AC	Academic Council
ADR	Adverse Drug Reactions
AERB	Atomic Energy Review Board
AICTE	All India Council for Technical Education
AIDS	Acquired Immuno Deficiency Syndrome
AIU	Association of Indian Universities
ALS	Advanced Life Support
AQAR	Annual Quality Assurance Report
ASU	Ayurveda, Siddha and Unani
ATP	Audio Tactile Performance
AYUSH	Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homoeopathy
BARC	Bhabha Atomic Research Centre
BECIL	Broadcast Engineering Consultants India Ltd
BLS	Basic Life Support
BoE	Board of Examinations
BoM	Board of Management
BoS	Board of Studies
BSRC	Basic Science Research Center
CAP	Central Assessment Programme
CAS	Career Advancement Scheme
CCIM	Central Council of Indian Medicine
CITI	Collaborative Institutional Training Initiative
CLIP	Community Level Interventions for Pre-Eclampsia
CME	Continuous Medical Education
CNKI	China National Knowledge Infrastructure
CPC	Clinico-Pathological Conferences

CPCSEA	Committee for the Purpose of Control and Supervision of Experiments on Animals
CPR	Cardio Pulmonary Resuscitation
CRF	Central Research Facility
CSIR	Council of Scientific and Industrial Research
CTRI	Clinical Trials Research of India
DAME	Department of Ayurveda Medical Education
DBCS	District Blindness Control Society
DBT	Department of Bio-Technology
DCGI	Drug Controller General of India
DCI	Dental Council of India
DDE	Department of Dental Education
DHHS	Department of Health and Human Services
DOMS	Department of Medical Education
DPE	Department of Physiotherapy Education
DRDO	Defense Research & Development Organization
DST	Department of Science and Technology
ECG	Electro Cardio Gram
ECHS	Ex-servicemen Contributory Health Scheme
EEG	Electroencephalograph
EMG	Electro Myography
ESI	Employee's State Insurance
FAPEP	Faculty Academic Performance Evaluation Proforma
FC	Finance Committee
FDA	Food and Drug Administration
FDC	Fixed Dose Combinations
GATS	General Agreement on Trade in Service
GCP	Good Clinical Practices

GLP	Good Laboratory Practices
GMP	Good Manufacturing Practice
GoI	Government of India
GPAT	Graduate Pharmacy Aptitude Test
HBB	Helping Babies Breathe
HEPA	High Efficiency Particulate Absorbent Filters
HHS	Health and Human Services
HISS	Hospital Information System Software
HIV	Human Immuno Deficiency Virus
IAP	Indian Association of Physiotherapy
IAS	Indian Administrative Services
ICAR	Indian Council of Agricultural Research
ICMR	Indian Council of Medical Research
ICT	Information and Communication Technologies
ICTC	Information and Communication Technology Council
IGIB	Institute of Genomics and Integrative Biology
IMR	Infant Mortality Rate
INC	Indian Nursing Council
INR	International Normalized Ratio
IPASF	Indian Pharmaceutical Association Students Federation
IPD	In-Patient Department
IPR	Intellectual Property Rights
IQAC	Internal Quality Assurance Cell
IRB	Institutional Review Board
ISKON	International Society for Krishna Consciousness
IUI	Intra Uterine Insemination
KAS	Karnataka Administrative Services
KLE	Karnataka Lingayat Education

KLEAN	KLE Academy News Bulletin
M.Ch	Master of Chirurgical
MCI	Medical Council of India
MCQ	Multiple Choice Questions
MCU	Multipoint Control Unit
MD	Doctor of Medicine
MEd-Rc	Medical Education Research Center
MET	Medical Education Technology
MHA	Master's in Hospital Administration
MHRD	Ministry of Human Resource Development
MMR	Maternal Mortality Rate
MNHR	Maternal and Newborn Health Registry
MoU	Memorandum of Understanding
MPH	Master of Public Health
MPT	Master of Physiotherapy
NABH	National Accreditation Board for Hospitals & Healthcare Providers
NABL	National Accreditation Board for Testing and Calibration Laboratories
NBA	National Board of Accreditation
NCL	National Chemical Laboratory
NCV	Nerve Conduction Velocity
NGOs	Non Governmental Organizations
NIH	National Institute of Health (USA)
NIMHANS	National Institute of Mental Health and Neuro-Sciences
NIPER	National Institute of Pharmaceutical Education and Research
NKN	National Knowledge Network
NMEICT	National Mission of Education through Information & Communication Technologies

NRHM	National Rural Health Mission
NRI	Non Resident Indian
NSS	National Service Scheme
NSSK	National Shishu Suraksha Karyakrama
NUHM	National Urban Health Mission
OBG	Obstetrics and Gynaecology
OMT	Orthopaedic Manual Therapy
OPAC	Online Public Access Catalogue
OPD	Outpatient Department
ORS	Oral Rehydration Solution
OSCE	Objective Structured Clinical Examination
OSLM	Objective Structured Learning Method
OSPE	Objective Structured Practical Examination
OT	Operation Theatre
PBL	Problem Based Learning
PCI	Pharmacy Council of India
PFT	Pulmonary Function Test
PG	Postgraduate
PGAIET	Post Graduate All India Entrance Test
PGDCR	Postgraduate Diploma in Cardiac Rehabilitation
PGDHPE	Post Graduate diploma in Health Profession Education
PGDHPE	Postgraduate Diploma in Health Professional Education
PHC	Primary Health Center
PPP	Public Private Partnership
PTA	Parent Teacher Association
QIP	Qualified Institutional Placement
RCH	Reproductive Child Health
RMRC	Regional Medical Research Center

RNTCP	Revised of National Tuberculosis Control Programs
SAG	Scientific Advisory Group
SLA	Service Level Agreement
SMO	Site Management Office
SNA	Students Nurses Association
SOPs	Standard Operative Procedures
SPSS	Statistical Package for the Social Sciences
TOEFL	Test of English as Foreign Language
UBC	University of British Columbia, Canada
UDEHP	University Department of Education for Health Professionals
UG	Undergraduate
UGAIET	Under Graduate All India Entrance Test
UHC	Urban Health Center
UHM	Urban Health Mission
UIC	University of Illinois, Chicago, USA
UKIERI	UK-India Education and Research Initiative
USAID	US Agency for International Development
VGST	Vision Group on Science and Technology
VPN	Virtual Private Network
WHO	World Health Organization
YRCW	Youth Red Cross Wing

INTRODUCTION:

The preparation of Self Study Report (SSR) involved an extensive process of data collection and compilation of information by the IQAC of University, constituent colleges, hospitals and University office. The final draft of SSR was rigorously reviewed and closely monitored by the University Steering Committee. (List enclosed)

The assessment indicators for each criteria in the SSR have been answered in terms of **Quality Initiation, Sustenance and Enhancement**, wherever applicable, to substantiate the efforts made by the University and its constituent units towards the achievement of its goal. **Quality initiation** includes efforts made by the University at inception in 2006 while, **quality sustenance** emphasizes on the activities carried out after the first cycle of accreditation sustaining the core values and building upon the opportunities. The information provided under **quality enhancement** highlights the innovations and strengths of the University.

The Report includes:

- (i) Preface from Vice-Chancellor
- (ii) Executive Summary
- (iii) Institutional profile
- (iv) Criteria-wise inputs from all Constituent Units
- (v) Evaluative Report of the Departments
- (vi) Declaration by Head of the Institute

The Self Study Report is prepared in two separate volumes. The first volume provides detailed quantitative information related to the University and criteria-wise inputs. The second volume provides evaluative reports of all the Departments from the eight constituent Units.

The Committees met regularly, and had several meetings with the Core-groups, Medical Director, Registrar, and Finance Officer Controller of Examinations and officials of University Administration, Examination and Finance Section. All these meetings were chaired by the Vice-Chancellor.

The members drawn from constituent units and identified with each criterion were actively involved in preparation of draft report, which was then thoroughly discussed and debated by the members of the University Steering Committee and University IQAC. The Final Report submitted to NAAC for reaccreditation is an outcome of exhaustive deliberations held in the series of meetings of IQAC under the chairmanship of the Vice-Chancellor.

University Steering Committee for NAAC Re-Accreditation 2014

Sl. No.	Name and Designation	Designation
1.	Dr. V.A. Kothiwale, Vice-Principal, Professor, Dept. of Medicine, JNMC, Belagavi	Co-ordinator & Convener
2.	Dr. Seema Hallikerimath, Co-ordinator, IQAC, KLEU, Belagavi	Co Co-ordinator
3.	Dr. M. B. Bellad, Professor of OBG, JNMC, Belagavi	Member
4.	Dr. Deepa Metgud, Assistant co-ordinator, IQAC, KLEU, Belagavi	Member
5.	Dr M. S. Ganachari, Deputy Registrar, KLE University, Belagavi	Member
6.	Dr Ranjit Kangle, Director, Student's Welfare, KLEU, Belagavi	Member
7.	Dr M. S. Shivaswamy, Program Co-ordinator, NSS, KLEU, Belagavi	Member
8.	Dr Preeti Kore, Chief Co-ordinator, University Cell for Women, KLEU, Belagavi	Member
9.	Dr Ramesh Chavan, Proctor, KLE University, Belagavi	Member
10.	Dr Jyoti Nagamoti, Director, UDEHP, KLE University, Belagavi	Member
11.	Dr Rupa Bellad, Professor & HoD of Paediatrics, JNMC, Belagavi	Member
12.	Dr Sunil Jalalpure, Deputy Director, KLE Dr. PK B&ASRC, KLEU, Belagavi	Member
13.	Dr G.A. Kalyani, Deputy Controller of Exams, KLEU, Belagavi	Member
14.	Dr V.M. Pattanshetti, Officer Incharge Dr. S.G. Desai Library, KLEU, Belagavi	Member
15.	Dr Daksha Dixit, Professor & HoD, - Rep. JNMC, Belagavi	Member
16.	Dr Vaishali Keluskar, Professor – Rep. KLE VK IDS, Belagavi	Member
17.	Dr B. C. Koti, Professor – Rep. KLE CoP, Hubballi	Member
18.	Dr S. S. Karki, Professor – Rep. KLE CoP, Bengaluru	Member
19.	Dr Kirankumar Hullatti, Asso. Professor, - Rep. KLE CoP, Belagavi	Member
20.	Dr Basavaraj Motimath, Asst. Professor – Rep. KLE IoPT, Belagavi	Member
21.	Dr Rajeshwari V. Kamat, Asst. Professor, - Rep. KLE Shri BMK AM, Belagavi	Member
22.	Mr Deepak Bagi, Asst. Professor – Rep. KLE IoNS, Belagavi	Member
23.	Dr Pramod H.J. Asst. Registrar – cum-SO to Hon.VC, KLEU, Belagavi	Member
24.	Dr K.R. Alagawadi, Assistant Registrar (Academics), KLEU, Belagavi	Member
25.	Dr Madhav Prabhu, Assistant Registrar, KLE University, Belagavi	Member
26.	Dr Mubashir Angolkar, Asso. Professor, Dept. of Public Health, KLEU, Belagavi	Member
27.	Dr Urmila Kagal, Assistant Registrar (AHS), KLE University, Belagavi	Member
28.	Dr Rajashekhar Somnatti, Asst. Administrator, CS, KLES Dr. PKH & MRC, Belagavi	Member
29.	Dr D.G. Gholba, Assistant Medical Supdt. KLE Dr. PK CH, Belagavi	Member
30.	Mr Parashuram Yadav, Site Engineer, JNMC, Belagavi	Member
31.	Mr R.S. Patil, Electrical Engineer, JNMC, Belagavi	Member
32.	Mr Yuvaraj R. Basarimarad, Asst. Registrar (Admn.), KLEU, Belagavi	Member

EXECUTIVE SUMMARY:

“The pursuit of number one is surely important in sports, but for Universities, being first is not as important as being amongst the best”.

We, at KLE Academy of Higher Education and Research, would like to measure ourselves on a wide range of dimensions that we believe are important for determining improvement and success, because no single indicator or composite number accurately represents what we have been able to achieve in last four years.

The University which was started with two constituent units - J. N. Medical College, Belagavi and the KLE VK Institute of Dental Sciences, Belagavi in 2006, today encompasses six more constituent units under its ambit. These include colleges of Ayurveda, Physiotherapy, Pharmacy and Nursing that are situated within the campus and off campus and offer courses from certificate to postdoctoral.

- After the conferment of Deemed-to-be-University status in April 2006 and accreditation with ‘**A**’ **Grade** by **NAAC** in March 2010, the prime focus of the University has been quality sustenance with specific future plans for quality enhancement in academics and research. This has led to benchmark achievement like the University’s placement in **Category ‘A’** by **MHRD**, Government of India on 19th Oct 2012.
- The three Pharmacy colleges are accredited by **National Board of Accreditation (NBA)**. KLE College of Pharmacy, Belagavi is recognized as **National Center for QIP programs**. The history, organization, and credentializing programs have been able to bring brought supportive, consistent, and objective acclaim to the University. The teaching hospital is accredited by **NABL** and is in the process of getting NABH approval.

The University is headed by a visionary Chancellor Dr. Prabhakar Kore, who is also the Chairman of the sponsoring KLE Society since 28 years. His foresight, dedication, perseverance, timely support and visionary effort have led to significant development of the University in leaps and bounds. He is the recipient of ‘**Life Time Achievement Award**’ for educational reforms and **Honorary Doctorate** from Karnataka University, Dharwad and Rani Channamma University, Belagavi for his contribution in the field of education and health-care.

The Vice-Chancellor is the **former President of Pharmacy Council of India** and the **Indian Pharmaceutical Congress** and is the recipient of **28 National and International awards**. Presently, he holds the following positions:

- Chairman of the Committee for Fixed Dose Combinations (FDC) constituted by Ministry of Health and Family Welfare, Government of India
- Chairman, Pharmacy Accreditation Committee of National Board of Accreditation (NBA),
- Governing Council Member, Association of Indian Universities (AIU),
- Member, National Scientific Advisory Group (SAG) of the Division of Basic Medical Sciences, (BMS) and Indian Council of Medical Research,
- Member, National Consultation Committee of Indian Pharmacopoeia Commission and Pharmacovigilance, Government of India,

The Registrar is the former President of Indian Academy of Pediatrics and Indian Academy of Pediatric Critical Care, Karnataka Chapter, Advisory Member for Collaboration of March of Dimes, USA and Country Coordinator for Neo-natal Research project for Global Site -8 of NIH, USA.

CRITERION I: CURRICULAR ASPECTS

- **Vision-2020** Document of the University is an essential step in building an academic consensus on a broad development strategy. It is prepared keeping in view the Vision, Mission and Objectives of our University and also the changing needs of the society in the years to come with the development plan of university with a long term perspective for accomplishment of the targeted goals by 2020.
- The University has adopted nine stage curriculum designs and has achieved global credentials for most of the programmes offered. The curriculum is prepared based on the guidelines of regulatory bodies and also considering the current and relevant issues with a view to meet the global trends in higher education and cater to the needs of the society. The Calendar of Events is provided at the commencement of academic session and Institution ensures strict adherence to the schedules.
- There are a total of 163 programmes offered by University. In last five years curriculum has been designed for 72 new diverse academic programs. The University has started new 5 undergraduate, 31 Post graduate degrees, 8 Diploma & Post graduate Diploma, 2 fellowship programs, 3 Super-Specialty, 5 PhDs and 18 Certificate courses. There has been approximately 90% increase in the number of courses offered by the University in last five years. Curricular revision has been undertaken for most of the subjects after approval by 154 boards of studies with addition of current and relevant issues.

- A comprehensive curricular design is ensured for relevance and accuracy by active participation of various stakeholders. All the programs are discussed and approved by respective Boards of studies and Academic Council after obtaining administrative approval of the Board of Management.

CRITERION II: TEACHING-LEARNING AND EVALUATION

- The University has been maintaining transparency in admission process through its Common Entrance Test conducted at several centers across the country for undergraduate and postgraduate courses in all disciplines. The demand ratio for all the courses (UG 1:9, PG 1:12, Superspeciality 1:3) is excellent and students are attracted from all over the country and abroad. The modern educational technology tools like ICT is a part of teaching, learning and evaluation process.
- Teachers at our University are critical resources with high credentials, who have significantly contributed towards generating and disseminating quality knowledge.
- The Department of Medical Education (DOME) of J.N. Medical College, Belagavi which was earlier recognized by MCI as **Regional Center** to train the medical faculty from 15 centers is now recognized as its **Nodal Center** to train the teachers in Medical Education Technology covering 39 institutions under its umbrella.
- In order to withstand the ever-changing teaching methodologies and global healthcare scenario, teachers need to constantly upgrade themselves to compete **on par** with the global standards. **The University Department of Education for Health Professionals (UDEHP)** enables our teachers to take up newer challenges in teaching-learning with confidence. The UDEHP has so far conducted **110** workshops for the last five years which have benefited **3102** teachers that has largely contributed to teaching and teachers' quality.
- Establishment of Clinical Skill Laboratories with its latest equipments, advanced technology, simulators and mannequins has provided new sight for learners. A well-planned calendar of events for the entire year has provided opportunity to the stakeholders to meticulously plan every event.
- Institution has the process of identifying and responding to the learning needs of students and categorizing them into slow and advanced learners, in order to bridge the gap between the existing skills, knowledge and competencies. The University has introduced semester system for B. Pharm, MHA and MPH programmes.
- The University has been following credible evaluation system of students and teachers which fosters quality and promote development.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

- Research is an integral part of the teaching–learning process. The Bye-Laws of the University are prepared under Rule No. 4 (vii) of MoA 2006 which provides for constitution and composition of various Boards and Committees. At present, there are seven committees at the University that monitor the research activities being conducted by the students and the faculty.
- The University is proud of its **internationally recognized global center** at J. N. Medical College. It is one of the eight leading global sites of **NICHD (USA)** for Women and Child Health Research funded by NIH, USA which has been undertaking community-oriented research projects. So far, **22** community-based research projects involving grant of approximately **Rs.30 crores** funded by NICHD, USA have been completed. The research work of this Center attracted the visit of Ms. Kathleen Sebelius, **Secretary of Health, and United States of America** who appreciated the contributions of the center to health research.
- The J.N. Medical College is recognized by **Ministry of Health and Family Welfare**, Government of India under the scheme of Human Resource Development for Health Resources (DHR) in the subject areas of **Geriatrics** and **Good Laboratory Practices (GLP) in 2013**.
- The Central Research Facility of KLE Shri B.M.Kankanawadi Ayurveda Mahavidyalaya has been recognized as approved **ASU (Ayurveda, Siddha, Unani) drug testing laboratory** by **Department of AYUSH**, Government of India in September 2011. Based on research strength and output of KLE Sri BMK Ayurveda Mahavidyalaya, Belagavi, **CSIR** has recognized and established a collaborative center **TRISUTRA – AYURGENOMICS** in December 2012.
- Institutional Review Board (IRB) of the KLE Academy of Higher Education and Research is recognized by Human Research Protections by the **U.S Department of Health and Human Services (DHHS)** for research involving human subjects and clinical investigation regulated by **Food and Drug Administration (FDA)** of **DHHS**.
- Two Basic Health Science Research Centers have been established at campus and off-campus (Bengaluru) for promotion of basic and applied health research activities. These have been established with a vision to become a force to be reckoned with, in the field of research. The focus areas are instrumental analysis, medical microbiology, molecular biology, academic research orientation programmes, international collaborations and scientific workshops for advanced

scientists. Sophisticated instruments like Ultra High-Performance Liquid Chromatograph (U-HPLC), quaternary gradient automated HPLC, USP dissolution tester for oral solid dosage forms, peltier-based thermal cycling Polymerized Chain Reaction (PCR) system, automated chromatographic fraction collector and associated high-end analytical instruments are available.

- The University has made annual budgetary provision of **Rs.10 crores** for the research and development activities apart from external funding.
- In the last five years University has received grant of **Rs.3366.3 lakhs** from **184** research projects (**101** funded research projects and 81 clinical trials) from various international agencies like WHO, Bill and Melinda Gates Foundation USA, International Atomic Energy Agency; Vienna, AAGCP, New York, THRASHER Research Fund, USA , national agencies like ICMR, VGST, AICTE, DST, SPICE, UGC, CSIR, AYUSH and drug companies like Norwich, Glenmark, Himalaya drugs, Bharat biotech, Panacea, Reliance, etc.
- The facilities, resources and related services are used effectively by the faculty and students to conduct top-level research in their respective fields. The teachers in various departments have published **2,750** research papers in National (**1586**), International (**1164**) journals (impact factor ranging from 54.42 – 0.150) and have authored **42** chapters in books, edited **15** books **15** monographs and published **18** books with ISBN. The University has three patents to its credit and 10 are in process. In last five years, an amount of **Rs 32 lakhs** has been provided as incentives to faculty and students for research publications, paper / poster presentations, awards and recognition at national and international level for research.
- The KLES Dr. Prabhakar Kore Hospital & Medical Research Centre has been recognized by the Governments of Karnataka, Goa and Maharashtra for their ESI, ECHS, Yashashvini and schemes for senior citizens and freedom fighters for offering medical services at subsidized rates.
- The J. N. Medical College has adopted three Primary Health Centers under public private partnership (PPP) model covering a population of around 1,10,000 in more than 100 villages of Belagavi district for rural health services. It has also adopted three Urban Health Centers covering a population of 1,00,000 to provide health care services for urban slum areas of Belagavi. The **Public-Private Partnership (PPP)** has been enhanced as the community research is now conducted in 90 PHCs in the district areas of Belagavi, Vijayapura, and Bagalkot covering 335 sub-centers, 827 villages which covers overall population

of around 18,83,445 including 4 medical hospital, 10 taluka hospitals, 94 private hospitals, 37 private clinics and 4266 physicians, ANMs, TBAs, ASHA and nurses. Telemedicine facility is provided in one of the Primary Health Centers and a well-equipped van with telemedicine facilities visits the neighboring villages for health check-ups.

- As on date, **66** students have been awarded **Doctor of Philosophy (Ph.D)** Degree and **93** are pursuing Ph.D. research in the University.
- University has initiated research awards with cash incentives like Best Ph.D Thesis Award, Best Post-Graduate Dissertation Award, Best Scientist Award and Best Young Scientist Award
- A total of **4244** extension activities have been carried out through various departments of the constituent units including hospitals, NSS, Youth Red Cross and other professional associations, benefitting a population of around 4, 24,400.
- As on date, the University has signed **120 Memoranda of Understanding (MoU)** with 53 International, 15 National and 52 state and other organizations / Universities for academic and research activities. University has **180 collaborations** (53 International, 127 National)
- The University has created synergies with other post-graduate institutes to promote and develop research relationships.
- Revenue of **Rs. 24.78 crores** has been generated in last five years through consultancy from grants, hospital Services, clinical trials, industries and others.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

- KLE Academy of Higher Education and Research is located in 100 acres campus that is meticulously planned. The University has separate buildings for all its on and off-campus constituent units.
- All buildings of constituent units are constructed to provide all the basic amenities that are required for effective teaching - learning process, health care and research.
- University has always given emphasis for upgradation/augmentation, creation of existing and new infrastructural facilities and learning resources to keep pace with academic growth.
- A coherent and strategy-led approach to policy-making on infrastructures by University has led to development of a campus second to none and at par with international level campuses.

- The infrastructure facilities measuring 315705.94 Sq.mts. are available on-campus that include Administrative Building for the University with separate office for the Vice-Chancellor, Registrar, Finance Officer and Controller of Examinations and facilities of Board of Management Room, Academic Council Hall, J. N. Medical College, Belagavi, Teaching Hospital. VK Institute of Dental Sciences, Institute of Nursing Sciences, Institute of Physiotherapy, College of Pharmacy and School of Music. In addition, three guest houses, 225 quarters for teaching and nonteaching staff, 25 hostels for undergraduates, interns, postgraduates and residents, gardens with lawns and musical fountain, play ground, indoor sports complex, food courts and buildings for other ancillary services, international standard swimming pool, international standard convention center, Venu Dhvani Community Radio Station and Library complex are also available.
- The off-campus facility is of **31734.95 Sq.mts.** that includes institute of Ayurveda, College of Pharmacy Hubballi and Bengaluru with other amenities.
- In last four years, infrastructure worth **Rs 40.136 crores** and sophisticated equipments worth **Rs 17.943 crores** has been added.
- Nine libraries measuring **8268.92 Sq. mts** with total seating capacity of **2638**, with 92595 books, 2614 e-journals, 2470 e-books and 13292 back volumes add to our learning resources.
- KLES Dr. Prabhakar Kore Hospital & MRC with 2200 beds built at a cost of Rs.200.00 crores is prized possession of the KLE Academy of Higher Education and Research which serves as the main teaching hospital for all health science institutions. Enhanced facilities like ICU, modular operation theatre, kidney transplant unit, state-of-art burns ward, psychiatric day care center are some of the advanced facilities available. The hospital also has facility of free bed, food, medicines, basic investigations and surgeries for poor and needy patients. The aforesaid Hospital has been recognized by Government of Karnataka for various schemes like Balasanjeevini, Vajapayee Arogyashree, Yashaswini Health Insurance, Suvarna Arogya Bhagya, etc. The overall services are monitored and supervised by the Medical Director, Medical Superintendent and Nursing Superintendent of the hospital.
- Nationally acclaimed **Clinical Skill Laboratory** is established at the hospital which provides hands-on training with the simulators.
- The University is in agreement with Wikipedia that defines globalization as “simply a means of international integration that is a

process by which the people of the world are unified into a single society and functioning together”. The University believes in adapting and excelling, and hence has made latest computing facilities available in all departments of constituent units.

- The institution has separate civil engineering department headed by the Executive Engineer and assisted by maintenance and electrical engineers, supervisors, estate officer and other staff for overseeing the maintenance of buildings, class-rooms and laboratories.
- The University has been providing electronic sources delivery and network information through its libraries. The Wi-Fi facility and internet access have been provided to facilitate the faculty and students as a part of ICT based-learning. The University is a part of HELINET consortium and INFLIBNET / DELNET for resource sharing in which all the library operations are computerized by using EASYLIB 4.3.2/4.3.6 software with SQL server, thereby providing ICT enabled learning resources to the staff and students like, BMJ Best Practices and Case Reports and EZ PROXY software.

CRITERIA – V : STUDENTS SUPPORT AND PROGRESSIONS

- One of the objectives of University is to provide high quality education to the students in diverse learning environment by promoting the values and providing an institution of democracy that prepares the students. The institution has a well-structured Tutor-Ward system for student support and mentoring which is completely managed by the faculty of the colleges. Each student is allotted a mentor during the first year of admission to the UG course, which continues till the completion of course. Each mentor will have a maximum of 15 students (mentees). The post-graduates are mentored by their respective guides.
- Provision of counselor, mentor and adviser for each student to deal with academic, emotional, behavioural, social needs and problems like stress, difficulty to cope-up with course curriculum has greatly improvised the efficiency of the students.
- The cumulative enrollment of students for the academic year 2014-15 is **1444**, of which **44%** are girl students. Among total enrollment **57.6%** are from outside the state, **36.66 %** are from within state and **5.74%** are NRI students, **63.3%** are undergraduates, **32%** are P.G. students and **4.7%** are Ph.D. research scholars. The University has taken all efforts to provide an environment conducive for fruitful exchange of diverse cultures. Students from various countries like

USA, Malaysia, UK, Canada, Kenya, Sri Lanka, Nepal and UAE are studying in the University, bringing with them their cultures and beliefs.

- Students identified as slow and advanced learners using structured and validated format from all the constituent units are dealt independently for performance improvement and higher learning. Enriched academic ambience for advanced learners is provided by honoring them with awards for any outstanding achievement, providing scholarships, library facilities, training in research and encouraging participation in scientific meets.
- Study conducted by the university on academic growth of economically disadvantaged students (UG: 630 and PG: 126) for the last five years showed an increase in passing percentage from 52.29% in first year to 100% in final year for undergraduate students. For postgraduate students the study showed 100% performance in examination for all the constituent units.
- A remedial coaching in English language is also offered to the students. A small booklet on “Kannada as a Communication Skill” is prepared and distributed to the students which facilitates them to communicate with the patients in local language
- The University has published “**Students Code of Conduct**” handbook which provides information on behavior of students in the campus, their rights and responsibilities, disciplinary measures, etc. which is provided to every student at the time of admission.
- The University has Director of Students Welfare and Program Coordinator for NSS who monitor the activities of students. The University has well-established policies / strategies for enhancing student’s participation in various sports and extracurricular activities. The University has Board of Sports and Physical Culture, Students Council and Board of Extra-mural Studies with members from all the constituent colleges including, student representatives which help the students to participate in various activities.
- The students have facilities like indoor and outdoor sports complex, auditorium, NSS Unit, grievances redressal cell, student counseling and mentorship, career-counseling and employment cell, anti ragging committee and empowerment cell for women.
- The University hosts inter-collegiate athletic sports meet (HUMBO) every year and students youth festival (TRINITY) every alternate year.
- The University Cell for Women addresses all grievances of the girl students. **24x7** helpline for girl students is active. The Student Council

has equal representation of girl students. This automatically ensures their full participation in all activities. The Co-General Secretary and Co-Secretaries of all committees of the students council have mandatorily girl students.

- **Self-defense training program** for girl students has helped in personality enhancement and well-being.
- Research scholarship of Rs. 26,62,000 have been given to 39 Ph.D scholars in addition 132 cash awards for undergraduate and postgraduate meritorious students amounting to Rs. 77,67,900 in different disciplines, in the last five years. Scholarships amount of Rs. 1,84,76,901 has been availed by 245 students of various disciplines through Social Welfare Agencies. 26 UG students have received scholarships from ICMR for research projects (short-term studentship) amounting to Rs. 2,40,000. Forty awards have been given for talents in NSS / sports and game / cultural activities amounting to Rs. 2,05,000 in the last four years. In addition financial support is extended to needy girl students and SC/ST students in the form of scholarships.
- The University has introduced '**Earn While you Learn**' scheme which helps the students belonging to financial poor students to earn while they learn.
- Programs such a "**Right Life and Life's Right**" are conducted for students spiritual and personality development.
- The university has initiated a new program '**Diploma in Value Education and Spirituality**' and the students are encouraged to undergo training, that creates positive outcome such as enhancement of confidence, self-respect, self-esteem, trust, self-reliance, leadership, and team spirit in them.
- All the constituent colleges of the University have registered **Alumni Associations**. Our alumni are spread all over the world bringing high credentials to the University.

CRITERIA – VI : GOVERNANCE AND LEADERSHIP

- The University has statutory officers viz. Vice-Chancellor, Registrar, Controller of Examinations, Finance Officer and other Officers.
- There are 17 statutory bodies which contribute towards the educational and administrative functioning of the University. All the statutory and non-statutory meetings are held as per the **Calendar of Events** prepared by the University, the success rate of which is 98%. A total of **105** meetings have been held for the last four years.

- The University under its able leadership of the Chancellor and the Vice-Chancellor has created an environment of approval and security in which all the employees feel free to express themselves for the growth and development of the University.
- The leader ensures implementation and continuous improvement by active and constructive inputs from various stakeholders to reinforce culture of excellence.
- The University has appointed more than required number of teaching staff, non-teaching, technical and administrative staff as per the norms laid down by the respective Councils. At present, there are **888** teachers and **651** support staff working in the University and its constituent units. The teachers are selected and promoted based on the recommendations of the Committees constituted by the University under the chairmanship of Vice-Chancellor with external experts. The teachers and non-teaching staff members are constantly kept updated by faculty development and skill upgradation programs.
- The College Council of each constituent unit meets regularly and undertakes the task of planning, executing and monitoring various academic programs.
- The University has established University Department of Education for Health Professionals (**UDEHP**) which regularly conducts workshops for the faculty members and research scholars to upgrade their knowledge and skill in the field of academics and research. All the teachers are encouraged to attend conferences and workshops, present and publish research articles, conduct CMEs, conferences, etc. by granting financial assistance and special casual leave.
- The University has policy of appointing Heads of the Departments on rotation basis every three years.
- Empowering professionals is the motto of the University. Truth, Love, Sacrifice and Selfless service constitute the motto of the sponsoring KLE Society. With the transparent and responsive governance supplemented with feedback from stake-holders and headed by dynamic Chancellor and Vice-Chancellor, the University has grown in terms of quality and excellence to fulfill the objectives of the University and also to achieve national and global goals.
- The teaching and non-teaching staff members of the University are covered under **Health Scheme of the University / Society** which provides healthcare including hospitalization to all the family members of the employee on payment of nominal charges.

- The **50% fee concession** is provided to the children of employees for admissions to various courses offered by the institutions run by KLE Academy of Higher Education and Research / KLE Society.

CRITERION VII: INNOVATIVE PRACTICES

- Excellent **Public-Private Partnership (PPP)** with Government of Karnataka (Adoption of three Primary Health Centre, three Urban Health Centers) and with ICMR (RMRC), Belagavi.
- On every third Friday of the month, hospital organizes musical program called '**Ragas for Rogas (Melody Vs Malady)**' for the psycho-social, emotional and spiritual benefit of patients and their attendants. The program is conducted by the staff and students from the University's School of Music.
- Felicitation of the sports persons and '**Unsung Heroes**' who have achieved and have served humanity without expecting social rewards.
- **Eco-friendly campus** : The University has identified areas of environmental pollution, energy efficiency and social responsibilities in the campus and has initiated studies in these areas. This has helped us to define areas of priority and develop support system in maintaining green environment.
- The University has conducted green audit of its campuses and facilities, and regularly formulates action plans to have an eco-friendly and green campus. Waste water recycling in the campus, which is treated and reused for gardening and other secondary purposes.
- The University maintains clean campus by adopting "**Swachha Bharat Abhiyan**" movement. Every Friday, all the faculty and staff members dedicate themselves and involve towards shramadan (cleanliness drive) for two hours for the same.
- The University has adopted **e-governance**. All circulars and notices are e-mailed to the concerned to reduce the use of papers.
- The University has set the tradition of both wishing and greeting the employees on their birthdays and extending official felicitation to teaching and non-teaching employees on the day of superannuation. The function is presided by the Vice-Chancellor and attended by senior University officials. It is a unique feature practiced by the University for the benefit of retired employees.

- Staff welfare scheme is introduced to help families of teaching and non-teaching staff in distress following death of faculty member. An amount of Rs. 10000/- is offered immediately and the balance money Rs 40,000/- is given in the form of bank deposit.
- Baby crèche facility for staff's children and 'needle and thread': a facility for dependents of non teaching staff to earn their living are other innovative practices of the university.
- **"Protsaha 2014"** a marathon in support of differently abled people was organized by college of Ayurveda in which 2000 citizens/students actively participated.
- Motivation for Body donation is conducted by college of Ayurveda through various body donation campaigns. In last 5 years, more than 300 people have pledged their bodies for donation and so far institute has received 8 bodies.

STRENGTH, WEAKNESS, OPPORTUNITIES & CHALLENGES (SWOC)

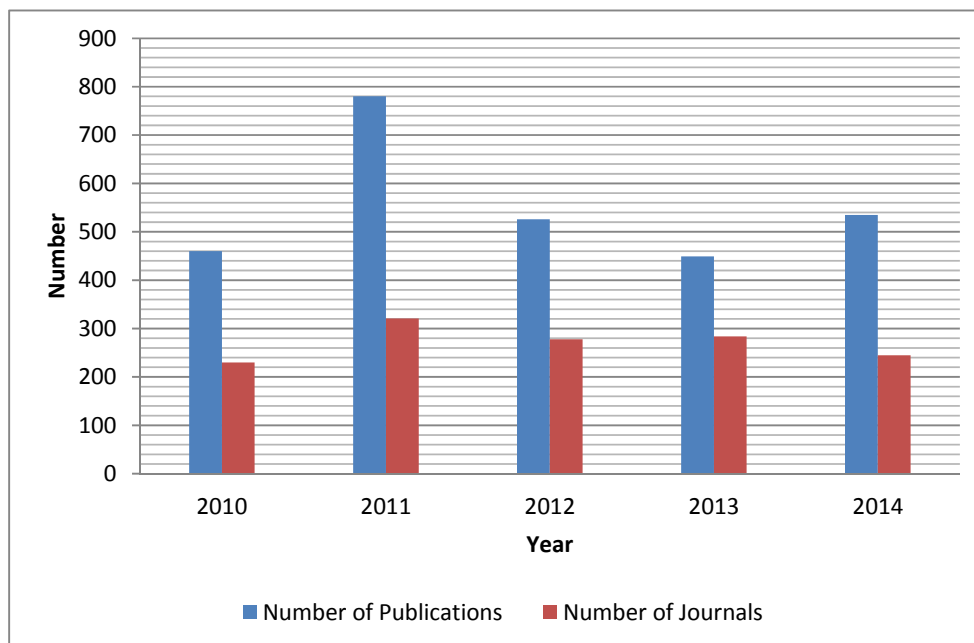
STRENGTH :

- The University was established in the year 2006 with well set goals and objectives to begin essential health education programmes and has been trying to enhance the positive impact on lives and community by implying core analytical skills.
- Ministry of Human Resource Development, Government of India, has placed KLE Academy of Higher Education and Research, Belagavi in **Category ‘A’**.
- KLE Academy of Higher Education and Research, Belagavi has been Accredited **‘A’ Grade** by National Assessment and Accreditation Council (NAAC).
- There are a total of 163 programmes offered by University. In last five years curriculum has been designed for 72 new diverse academic programs. There has been approximately 90% increase in the number of courses offered by the University in last five years.
- The admirable rate of retention of faculty for all programs speaks for excellent human resource management of the University that has taken care of the increased demand ratios for all programs seen over the years.
- Retention of staff members has been a great strength of University as is evident by nearly 50% of faculty members serving their institutions for more than 20 years in medical & dental, and for more than 15 years in other constituent units.
- The annual Calendar of Events (ALMANAC) covering curricular and extracurricular activities for every academic year is published well in advance by the University, since its inception.
- University has well established Department of Education for Health Professionals. So far UDEHP has conducted 121 programmes for up gradation of quality of teaching.
- Department of Medical Education (DOME) J. N. Medical College, Belagavi is recognized by **MCI** as **Nodal Center in Medical Education Technology** to cover this part of the country with 39 institutes under its umbrella.

- DOME J.N. Medical College, Belagavi is recognized by MCI as **Regional Training Center in Medical Education Technology** covering 15 Medical colleges of North Karnataka (5 Government & 10 Private) institutions.
- The University Research Foundation is acclaimed worldwide for excellent work in the field of Maternal and Child Health. The Women's and Children's Health Research Center is one of the leading **Global Network sites of NICHD, USA**. In appreciation of this site, **Ms Kathleen Sebelius Secretary of Health USA** and her team visited the University. This visit made her to participate in the Global Network Steering Committee Meeting where the site investigators and the Hon. Chancellor of KLE University were felicitated. Co-ordinator of this site was invited to address the congress for his work on the project **"First Breath"**.
- Research foundation has also established collaborative research activities with National AIDS Research Institute (NARI), Pune on HIV and cervical cancer and Government Medical College, Nagpur on use of Antenatal Corticosteroid Trial (ACT) in Pre-term births and Helping Babies Breathe (HBB) trial.
- KLE University boast's of having two well equipped Basic Health Science Research Centers for capacity building, analytical skill development in molecular biology, basic science, genomics and stem cell research. The scientist appointed at these centers along with national and international invited scientists conduct workshops and training programmes for students and faculty.
- Central Research Facility of KLE Ayurveda College has been recognized as approved ASU (Ayurveda, Siddha, Unani) Drug Testing Laboratory by **Department of AYUSH**, Government of India.
- Total revenue generated in last four years through consultancy is **Rs. 24,78,94,809.90**
- Herbal garden facility available for Ayurveda and Pharmacy research.
- There are five animal houses in the University, two within campus and three off-campus. They are duly registered with CPCSEA.
- Faculty have published 2750 research articles in indexed journals like NEJ, Lancet and Cell with high impact factor of 54.42, 39.315, and 35.020 respectively.

Strengths, Weakness, Opportunities & Challenges

	2010	2011	2012	2013	2014	Total
Number of Publications	460	780	526	449	535	2750
Number of Journals	230	321	278	284	245	1358



- 81 Clinical Trials-Phase III and IV have been carried out through CROs and from Pharmaceutical companies by Medical, Pharmacy and Ayurveda colleges.
- NABL accredited and AYUSH certified laboratories.
- International standard convention centre and swimming pool.
- University has 300 MoUs / Collaborations with national and international organizations / institutions / industries.

WEAKNESS

- Less number of patents.
- Delay in release of funds for research work from government agencies.
- Publication of scientific articles in Indexed Journals has been distributed unequally among the departments.

OPPORTUNITY

- Excellent infrastructure and facilities to conduct research.
- To initiate dual degree programmes (Academic and Research) in collaboration with national and international Universities / institutions / organizations with which University has MoUs.

CHALLENGES

- Meeting the increasing clinical demands, in terms of infrastructures, equipments and training of faculty.
- To meet the growing expectations of stakeholders.
- Establishment of some more subspecialties like, Oncosurgery, Oncology, Emergency medicine etc.
- To ensure that the state of art, health care facility available with us reach the poor and needy.

SECTION B : PREPARATION OF SELF-STUDY REPORT

● **Profile of the Health Science Institutions**

(To provide information whichever is relevant to the HSI)

1. Name and Address of the Institution:

Name :	KLE Academy of Higher Education & Research	
Address:	JNMC Campus, Nehru Nagar, Belagavi	
City: Belagavi	Pin: 590 010	State: Karnataka
Website:	http://www.kleuniversity.edu.in	

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Vice Chancellor	Dr. Chandrakant K. Kokate	O: 0831-2444444 R: 0831-2474732	+ 91-9448072777	0831-2493780	chandrakokate@gmail.com
Pro Vice Chancellor(s)		O : R :			
Registrar	Dr. V. D. Patil	O:0831-2444444 R: 0831-247010	+ 91 - 9448190231	0831-2493780	info@kleuniversity.edu.in
Principal / Dean / Director		O : R :			
Vice Principal		O : R :			
Steering Committee Co-ordinator	Dr. V.A. Kothiwale	O:0831-2444444 R: 0831-2437835	+91 - 9448119899	0831-2493780	nov10kothiwale@yahoo.co.in
IQAC Co-ordinator	Dr. Seema Hallikerimath	O:0831-2444444 R: 0831-6451378	09448110562	0831-2493780	seemahmath@gmail.com
IQAC Co-coordinator	Dr. Deepa Metgud	O:0831-2444444 R:9845313416	09845861236	0831-2493780	drdeepa_metgud@yahoo.com

3. Status of the Institution:

- Autonomous College
 Constituent College
 Affiliated College
 State University
 State Private University
 Central University
 University under Section 3 of UGC (A Deemed to be University) ☒
 Institution of National Importance
 Any other (specify)

4. Type of University:

- Unitary ☒
 Affiliating ☐

5. Type of College:

- Ayurveda ☒
 Dentistry ☒
 Homoeopathy ☐
 Medicine ☒
 Nursing ☒
 Pharmacy ☒
 Physiotherapy ☒
 Siddha ☐
 Unani ☐
 Yoga and Naturopathy ☐
 Others (specify and provide details) ☐

6. Source of funding:

- Central ☐
 Government ☐
 State Government Grant-in-aid ☐
 Self-financing ☒
 Trust ☐
 Corporate ☐
 Any other (specify) **Society**

7. a. Date of establishment of the institution: 13-04-2006

b. In the case of university, prior to the establishment of the university, was it a/an

- | | | | | |
|-------------------------------|-----|-------------------------------------|----|--------------------------|
| i. Autonomous College | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| ii. Constituent College | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| iii. Affiliated College | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| iv. PG Centre | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| v. De novo institution | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| vi. Any other (specify) | | | | |

c. In the case of college, university to which it is affiliated-

Not Applicable

8. State the vision and the mission of the institution.

Vision:

“To be an outstanding University of excellence ever in pursuit of newer horizons - To build self-reliant global citizens through assured quality educational programmes”

Mission:

- To promote sustainable development of higher education consistent with statutory and regulatory requirements.
- To plan and continuously provide necessary infrastructure, learning resources required for quality education and innovations.
- To stimulate and to extend the frontiers of knowledge, through faculty development and continuing education programmes.
- To make research a significant activity involving staff, students and society.
- To promote industry / organization, interaction/collaborations with regional national / international bodies.
- To establish healthy systems for communication among all stakeholders for vision oriented-growth.
- To fulfill the national obligation through rural health missions.

9. a. Details of UGC recognition / subsequent recognition (if applicable):

Under Section	Date, Month & Year (dd/mm/yyyy)	Remarks (If any)
i. 2(f)*	Not Applicable	
ii. 12B*	-	Applied on 4 th Feb. 2011
iii. 3*	13/04/2006	No. F. 9-19/2000-U.3(A)
	20/02/2009	No. F. 9-19/2000-U.3
	27/07/2011	F. No. 6-44/2004(CPP-I)

*** Annexure I : Certificates of UGC recognition**

b. Details of recognition/approval by statutory/regulatory bodies other than UGC (MCI, DCI, PCI, INC, RCI, AYUSH, AICTE, etc.)

Sl. No.	Under Section/ clause	Discipline	Day, Month & Year (dd/mm/yyyy)	Validity	Program/ institution	Remarks
1	MCI Section 33 of the Indian Medical council Act. 1956 (102 of 1956)	MBBS	23/04/1976	UG -5 Yr PG -5 Yr	UG & PG J.N.Medical College	
	Under section 10A of IMC act 1956 Under clause 6 of PG Medical	PG Degree Courses				
		MD				
		Gen. Medicine	16/09/1991			
		Paediatrics	17/09/1991			
		Dermatology	25/03/1996			
		Anaesthesiology	14/10/1992			
		Radio-diagnosis	31/03/1997			
		Pulmonary Medicine	28/04/2006			
		Psychiatry	20/01/2010			

Sl. No.	Under Section/ clause	Discipline	Day, Month & Year (dd/mm/yyyy)	Validity	Program/ institution	Remarks
	Education Regulations 2000	Para-Clinical				
		MD				
		Pathology	11/03/1993			
		Microbiology	17/09/1991			
		Pharmacology	06/07/1989			
		Community Med.	16/11/1998			
		Forensic Medicine	21/11/1996			
		Pre-Clinical				
		MD Physiology	01/05/1995			
		MD Biochemistry	28/05/2004			
		MS Anatomy	14/10/1992			
		PG Degree Courses				
		MS				
		Gen. Surgery	28/04/1984			
		Obst. & Gynae	17/09/1991			
		Orthopaedics	17/09/1991			
		Ophthalmology	17/09/1991			
		ENT	01/08/1996			
		PG Diploma Courses Clinical				
		DGO	17/09/1991			
		DCH	17/09/1991			
		DO	17/09/1991			
		D Ortho	17/09/1991			
		D.O.M.S	17/09/1991			
		DLO	01/08/1996			
		DVD	25/03/1996			
		DA	14/10/1992			
		DMRD	31/03/1997			
		Para-clinical				
		DCP	11/03/1993			
		DPH	16/11/1998			
		DFM	21/11/1996			
		Super speciality Course				
		MCh (Urology)	25/05/2007			
		M.Ch (CTVS)	14/01/2009			
		DM (Cardiology)	11/05/2010			
		DM (Neurology)	14/01/2009			

Sl. No.	Under Section/ clause	Discipline	Day, Month & Year (dd/mm/yyyy)	Validity	Program/ institution	Remarks
2	DCI	BDS	19/09/1985		KLE VKIDS, Belagavi UG	
	(Under section 10 A (4) of the Dentists Act, 1948)	PG Degree Courses			PG	
		MDS				
		Oral & Maxillofacial Surgery	14/02/1992			
		Prosthodontics	14/02/1992			
		Periodontics	14/02/1992			
		Oral Pathology	14/02/1992			
		Community Dentistry	22/09/1997			
		Oral Medicine & Radiology	22/09/1997			
		Conservative Dentistry	04/03/1992			
		Orthodontics	27/05/1993			
		Pedodontics	20/01/1998			
3	PCI Under section 12 of the Pharmacy act – 1948	B. Pharm. – UG	01/02/1968	Every five year validated	KLEU College of Pharmacy, Belagavi	5 years approval
			20/02/2009	Every two year validated	KLEU College of Pharmacy Hubli	2 years approval
			24.08.1992	Every five year validated	KLEU College of Pharmacy, Bengaluru	5 years approval
		Pharm. D	2014	Every year validated	KLEU College of Pharmacy, Belagavi, Hubballi and Bengaluru	Every year approval
4	AICTE	PG Degree courses		Every five year validated	KLEU College of Pharmacy, Belagavi	
		M. Pharm.				
		Pharmacology	23-05-1995			
		Pharmaceutics	23-05-1995			
		Pharmaceutical Chemistry	23-05-1995			
		Pharmacognosy	23-05-1995			
		Pharmacy Practice	04-09-2000			
		Quality Assurance	21-06-2005			
		Pharmaceutical Biotechnology	12-08-2002			

Sl. No.	Under Section/ clause	Discipline	Day, Month & Year (dd/mm/yyyy)	Validity	Program/ institution	Remarks
		M. Pharm.		Every five year validated	KLEU College of Pharmacy, Hubballi	
		Pharmacology	12/08/2002			
		Pharmaceutics	22/07/2004			
		Pharmaceutical Chemistry	07/07/2003			
		Pharmacognosy	24/08/1999			
		M. Pharm.		Every five year validated	KLEU College of Pharmacy, Bengaluru	
		Pharmacology	30-05-2007			
		Pharm Technology	07-07-2003			
		Pharmaceutics	05-09-2011			
		Pharmaceutical Chemistry	22-07-2004			
5	NBA	<ul style="list-style-type: none"> KLEU College of Pharmacy, Belagavi KLEU College of Pharmacy, Hubballi KLEU College of Pharmacy, Bengaluru 	13/12/2011	3 years	UG/PG	
			13/12/2011	3 years		
			04/01/1990	5 years		
6	INC	B.Sc. Nursing	01/02/ 1990	Validated for one year	KLEU Institute of Nursing Sciences, Bgm UG	One year approval
	Under section 14 of Indian Nursing Council 1947	PB B.Sc. Nursing	19./1/2005	Validated for one year	KLEU Institute of Nursing Sciences, Bgm UG	One year approval
		PG Degree Courses			PG	
		M.Sc. Nursing				
		OBG Nursing	01/10/1998			
		Medical Surgical Nursing	01/10/1998			
		Child Health Nursing	01/09/2007			
		Community Health Nursing	01/09/1999			
		Mental Health Nursing	01/08/2010			

Sl. No.	Under Section/ clause	Discipline	Day, Month & Year (dd/mm/yyyy)	Validity	Program/ institution	Remarks
7	IAP Under clause XIX (g) of the Memorandum of the association of IAP	BPT	28/05/2001	Every five year validated	KLEU Institute of Physiotherapy Belagavi UG	5 years
		PG Degree Courses			PG	
		MPT				
		Neurology	August 2009			
		Pediatrics	August 2007			
		Community Based Rehabilitation	August 2009			
		Cardio Respiratory Physiotherapy	August 2010			
		OBG Physiotherapy	August 2011			
		Orthopedics	August 2009			
		Orthopedics Manual Therapy	August 2007			
		Sports Physiotherapy	August 2010			
		Geriatric Physiotherapy	August 2012			
8	CCIM	BAMS	1968	Every year validated	KLEU Shri BMK Ayurveda College, Belagavi UG	Yearly
	Under section 13C /13A of the IMCC Act 1970	PG Degree Courses			PG	
		Agada Tantra	29/11/2010			
		Dravyaguna	10/08/2000			
		Kaumara Bhritya	29/11/2010			
		Panchakarma	29/11/2010			
		Shalya Tantra	29/11/2010			
		Sanjnaharana	29/10/2010			
		Rasashastra	20/10/1998			
		Kayachikista	29/11/2010			
		Bhaishajya Kalpana	29/11/2010			

Annexure II : (Certificates of recognition / approval by Statutory / Regulatory Bodies)

10. Has the institution been recognized for its outstanding performance by any national / international agency such as DSIR, DBT, ICMR, UGC-SAP, AYUSH, WHO, UNESCO, etc.?

Yes ☒ No ☐

If yes, name of the agency (see below table for details)

date of recognition: (dd/mm/yyyy) nature

of recognition

Sl. No.	Recognized by National / International Agency	Date of Recognition	Nature of Recognition
1.	MHRD	19 th October 2012	Ministry of Human Resource Development, Government of India, has placed KLE Academy of Higher Education and Research, Belagavi in Category 'A' .
2.	National Institute of Child Health (NICHD, USA)	2001	J. N. Medical College, Belagavi is recognized as one of the nine Global Network Sites of NICHD, USA for research on Women and Child Health . The site is highly appreciated and its main investigators (PI and Co-ordinator) were felicitated. In appreciation of this site, Ms Kathleen Sebelius Secretary of Health USA and her team visited the University. This visit made her to participate in the Global Network Steering Committee Meeting where the site investigators and the Hon. Chancellor of KLE University were felicitated. Co-ordinator of this site was invited to address the congress for his work on the project "First Breath" .
3.	ASU – Drug Testing Laboratory by Government of India	14 th September 2011	Central Research Facility of KLEU Ayurveda College has been recognized as approved ASU (Ayurveda, Siddha, Unani) Drug Testing Laboratory by Department of AYUSH , Government of India.
4.	National Pharmacovigilance Centre. Jamnagar.	26/08/2009	KLEU Ayurveda College has been recognized as Peripheral Pharmacovigilance centre for ASU drugs.

5.	Medical Council of India (MCI)	09/07/2014 as Nodal Center 01/04/2011 as RTC (Regional Training Center) Establishment of Department Of Medical Education (DOME): 1989 as Medical Education Cell Fully functional: 1994-95	DOME (Department of Medical Education) J. N. Medical College, Belgaum is recognized by MCI as Nodal Center in Medical Education Technology to cover this part of the country with 39 institutes under its umbrella. DOME Department Of Medical Education J. N. Medical College, Belgaum is recognized by MCI as Regional Training Center in Medical Education Technology covering 15 Medical colleges of North Karnataka (5 Government & 10 Private) institutions. In 2013-14 one more medical college was added by MCI (ESIC Medical College Gulbarga University, Karnataka) The Cell was inaugurated during Training of Trainers workshop.
6.	All India Center for Technical Education (AICTE)	31 st March 1994	KLEU College of Pharmacy, Belagavi is recognized as National Nodal Center for QIP.
7.	Recognition by Ministry of Health and Family Welfare. Human Resource Development for Health Research, Govt. of India.	Geriatric – 30-08-2013, DHR file No. V-25011/25 (10) /2013-HR Good Laboratory Practices (GLP) -- 30-08-2013, DHR file No. V-25011/25 (5) /2013-HR	J. N. Medical College is recognized by Ministry of Health and Family Welfare under Scheme Human Resource Development for Health Resources (DHR) in the subject areas of Geriatrics and Good Laboratory Practices (GLP).

8.	CSIR	18 th December 2012	Based on research strength and output of KLE Sri BMK Ayurveda Mahavidyalaya, Belgaum, CSIR has recognized and established a collaborative center TRISUTRA – AYURGENOMICS .
9.	Institutional Review Board (IRB) of KLE University i) Office for Human Research Protections (OHRP) by the U.S Department of Health and Human Services (DHHS) ii) Drugs Controller General of India (DCGI)	31 st August 2001 20 th April 2013	Institutional Review Board (IRB) of KLE University is recognized by Office for Human Research Protections by the U.S Department of Health and Human Services (HHS) for research involving human subjects and clinical investigation regulated by Food and Drug Administration (FDA) of DHHS . The Ethics Committee, KLE University, Belgaum is registered with DCGI , No. ECR/2011/Inst/KA/2013 issued under rule 122DD of the Drugs and Cosmetics Rules 1945
10.	Medical Board of California	19 th November 2014	Graduates of Jawaharlal Nehru Medical College, Belgaum, KLE University, are recognized by Medical Board of California to apply for a California Postgraduate Training.
11.	National Board of Accreditation	15 th December 2011 College of Pharmacy, Belagavi 15 th December 2011, College of Pharmacy, Hubballi 29 th January 2013, College of Pharmacy, Bengaluru	The Executive Committee has approved the accreditation status of the programmes at these institutes.

12.	NABL Accreditation of Laboratories	12 th December 2013,	KLE Dr. PK Hospital & MRC Belagavi, has been accredited in accordance with standard ISO 15189:2007 “ Medical Laboratories–Particular requirements for Quality and Competence ”
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11. Does the institution have off-campus centres?

Yes ☒ No ☐

If yes, (see below table for details)

date of establishment : (dd/mm/yyyy)

date of recognition by relevant statutory body/ies: see below
(dd/mm/yyyy)

Name of the Institution	Date of Establishment	Date of Recognition by relevant body/ies
KLEU Sri BMK Ayurveda Mahavidyalaya, Belagavi	1933	1968 by CCIM
KLEU College of Pharmacy, Hubballi	August 1985	20 th February 2009 by PCI & 31 st March 1994 by AICTE
KLEU College of Pharmacy, Bengaluru	18 th August 1992	20 th February 2009 by PCI & 31 st March 1994 by AICTE

12. Does the institution have off-shore campuses?

Yes ☐ No ☒

If yes, date of establishment: (dd/mm/yyyy)

date of recognition by relevant statutory body/ies:
(dd/mm/yyyy)

13. Location of the campus and area:

	Location *	Campus area in acres	Built up area in sq. mts.
i. Main campus area	Urban	100 acres	315705.94
ii. Other campuses in the country	Urban	42.33 acres	31734.95
iii. Campuses abroad	--	--	--

(* Urban, Semi-Urban, Rural, Tribal, Hilly Area, any other (specify))

If the institution has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.

14. Number of affiliated / constituent institutions in the university

Types of Institutions	Total	Permanent	Temporary
Ayurveda	01	✓	
Dentistry	01	✓	
Homoeopathy			
Medicine	01	✓	
Nursing	01	✓	
Pharmacy	03	✓	
Physiotherapy	01	✓	
Siddha			
Unani			
Yoga and Naturopathy			
Others (specify and provide details)			

15. Does the University Act provide for conferment of autonomy to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University.

Yes ☐

No ☒

Number

16. Furnish the following information:

Particulars	Number
a. Accredited colleges by any professional body/ies	
b. Accredited course / department by any professional body/ies	
c. Affiliated colleges	
d. Autonomous colleges	
e. Colleges with Postgraduate Departments	
f. Colleges with Research Departments	
g. Constituent colleges	08
h. University Departments	
Undergraduate : Post graduate : <ul style="list-style-type: none"> University Department of Public Health University Department of Hospital Administration University Department of Allied Health Sciences University Department of Bio-statistics & Epidemiology 	Nil
Research centers on the campus and on other campuses On campus <ol style="list-style-type: none"> KLEU Research Foundation, Belagavi KLE Dr. PK Basic Health Science Research Centre, Belagavi Off-campus <ol style="list-style-type: none"> Central Research Facility at KLEU Sri BMK Ayurveda Mahavidyalaya, Belgaum, approved by Dept. of AYUSH, Govt. of Karnataka as ASU drug testing laboratory. Ayurgenomics Laboratory for Prakruti and Genetics studies established in collaboration with IGIB – CSIR New Delhi. Basic Science Research Centre at KLEU College of Pharmacy, Bangalore. 	04
<ol style="list-style-type: none"> Central Research Facility at KLEU Sri BMK Ayurveda Mahavidyalaya, Belgaum, approved by Dept. of AYUSH, Govt. of Karnataka as ASU drug testing laboratory. Ayurgenomics Laboratory for Prakruti and Genetics studies established in collaboration with IGIB – CSIR New Delhi. Basic Science Research Centre at KLEU College of Pharmacy, Bangalore. 	05
i. University recognized Research Institutes/Centres <ol style="list-style-type: none"> KLEU Research Foundation , Belagavi KLE Dr. PK Basic Health Science Research Centre, Belagavi Central Research Facility at KLEU Sri BMK Ayurveda Mahavidyalaya, Belagavi, approved by Dept. of AYUSH, Govt. of Karnataka as ASU drug testing laboratory Ayurgenomics Laboratory for Prakruti and Genetics studies established in collaboration with IGIB – CSIR New Delhi. Basic Science Research Centre at KLEU College of Pharmacy, Bengaluru. Basic Research facilities : one in each of eight constituent units (8) 	13

17. Does the institution conform to the specification of Degrees as enlisted by the UGC?

Yes ☒ No ☐

If the institution uses any other nomenclatures, specify.

18. Academic programs offered and student enrolment : (Enclose the list of academic programs offered and approval / recognition details issued by the statutory body governing the programs)

Programs	Number of Programs	Number of students enrolled 2014-15
UG	14	836
PG	68	306
DNB	--	NA
Integrated Masters	--	--
Pharm D.	1	78
M.Phil.	--	--
Ph.D.	07	28
Certificate	25	38
Diploma	02	39
PG Diploma	21	57
D.M. / M.Ch.	08	12
Sub / Super specialty Fellowship	15	04
Any other (specify)	02	46
Total	163	1444

Annexure II : Certificates of recognition / approval by Statutory / Regulatory Bodies

19. Provide information on the following general facilities (campus-wise):

- Auditorium / seminar complex with infrastructure facilities Yes ☒ No ☐
- Sports facilities
 - * Outdoor Yes ☒ No ☐
 - * Indoor Yes ☒ No ☐

Institutional Profile

- Residential facilities for faculty and Non-teaching staff Yes ☒ No ☐
- Cafeteria Yes ☒ No ☐
- Health centre
- * First aid facility Yes ☒ No ☐
 - * Outpatient facility Yes ☒ No ☐
 - * Inpatient facility Yes ☒ No ☐
 - * Ambulance facility Yes ☒ No ☐
 - * Emergency care facility Yes ☒ No ☐
 - * Health centre staff Yes ☒ No ☐
- Qualified Doctor Full time ☒ Part time ☐
- Qualified Nurse Full time ☒ Part time ☐
- Facilities like banking, post office, book shops, etc. Yes ☒ No ☐
- Transport facilities to cater to the needs of the Students and staff Yes ☒ No ☐
- Facilities for persons with disabilities Yes ☒ No ☐
- Animal House Yes ☒ No ☐
- Incinerator for laboratories Yes ☒ No ☐
- Power house Yes ☒ No ☐
- Fire safe measures Yes ☒ No ☐

- Waste management facility particularly
Bio-hazardous waste Yes ☒ No ☐
- Potable water and treatment Yes ☒ No ☐
- Any other facility (specify) :
 - International level Convention center.
 - International standard swimming pool.
 - Girls Hostel : 12, Boys Hostel : 6 ; Overseas Students Hostel : 2 ; Interns Hostel : 2 and Postgraduate Hostels : 3
 - Two Basic Health Science Research Centers.
 - Guest Houses with air conditioned rooms : 4; Total rooms : 32
 - Central Research Facility at KLEU Sri BMK Ayurveda Mahavidyalaya, Belagavi, approved by **Dept. of AYUSH**, Govt. of Karnataka as ASU drug testing laboratory.
 - Ayurgenomics Laboratory for Prakruti and Genetics studies established in collaboration with **IGIB – CSIR** New Delhi.
 - Herbal garden of 23.5 acres.
 - Separate well equipped gymnasium for girls and boys students with qualified instructors to supervise their activities.
 - Yoga center
 - Well equipped and clean baby crèche are available in the college and hospital premises for the benefit of teaching and non-teaching staff members.
 - Vocational training center for women dependents of non-teaching staff.
 - Eco-friendly lawn with musical fountain on twenty-one acres of land.

- Beauty parlour
- Market plaza with co-operative store, bakery, facilities for hair-cutting dry- cleaning etc.
- Transport facility for children to school of staff (teaching and non-teaching) members.
- Total Buses : 16
- Two Battery Operated Vehicles

20. Working days / teaching days during the past four academic years

	Working days					Teaching days				
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Number stipulated by the Regulatory Authority	260	260	260	260	260	240	240	240	240	240
Number by the Institution	277	279	276	279	280	251	254	255	250	252

21. Has the institution been reviewed or audited by any regulatory authority? If so, furnish copy of the report and action taken there upon (last four years).

Yes

The institution has been reviewed or audited by regulatory authorities, like UGC, MHRD, NAAC, MCI, DCI, PCI, AICTE, CCIM, INC, IAP, NABL and NBA.

Annexure III : Copies of review or audit by regulatory authorities and action taken reports in last four years

22. Number of positions in the institution

Positions	Teaching faculty						Non-teaching staff	Technical Staff
	Professor	Associate Professor/Reader	Assistant Professor	Lecturer	Tutor / Clinical Instructor	Senior Resident		
Sanctioned by the Government								
Recruited								
Yet to recruit								
Sanctioned by the Management/Society or other authorized bodies	161	159	310	-	189	54	500	151
Recruited	168	161	313	-	192	54	524	176
Yet to recruit								
Stipulated by the regulatory authority	79	152	242	-	144	54	424	126
Cadre ratio	168	161	313	-	192	54	524	176
Recruited								
Yet to recruit								
Number of persons working on contract basis								

23. Qualifications of the teaching staff

Highest Qualification	Professor		Associate Professor/Reader		Assistant Professor		Lecturer		Tutor / Clinical Instructor		Senior Resident	
	M	F	M	F	M	F	M	F	M	F	M	F
Permanent teachers												
D.M./ M.Ch.	11	1	8	0	4	0	0	0	0	0	0	0
Ph.D./D.Sc./D.Litt/ M.D./ M.S.	90	30	75	34	96	76	0	0	0	0	26	02

Institutional Profile

PG (M.Pharm./ PharmD, DNB, M.Sc., MDS., MPT, MPH, MHA)	15	15	24	20	64	27	0	0	15	19	02	04
AB/FRCS/FRCP/ MRCP/MRCS/ FDSRCS												
M.Phil.	1	1	0	0	1	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	101	106	09	11
Temporary teachers												
D.M./ M.Ch.												
Ph.D./D.Sc./D.Litt/ M.D./ M.S.												
PG (M.Pharm./ PharmD, DNB, M.Sc., MDS., MPT, MPH, MHA)												
AB/FRCS/FRCP/ MRCP/MRCS/ FDSRCS												
M.Phil.												
UG												
Contractual teachers												
D.M./ M.Ch.												
Highest Qualification	Professor		Associate Professor/ Reader		Assistant Professor		Lectu rer		Tutor / Clinical Instructor		Senior Resident	
	M	F	M	F	M	F	M	F	M	F	M	F
Ph.D./D.Sc./D.Litt/ M.D./ M.S.												
PG (M.Pharm./ PharmD, DNB, M.Sc., MDS., MPT, MPH, MHA)												
AB/FRCS/FRCP/ MRCP/MRCS/ FDSRCS												
M.Phil.												
UG												

Part-time teachers												
D.M./ M.Ch.												
Ph.D./D.Sc./D.Litt/ M.D./ M.S.												
PG (M.Pharm./ Pharm D, DNB, M.Sc., MDS., MPT, MPH, MHA)					2	2						
AB/FRCS/FRCP/ MRCP/MRCS/ FDSRCS												
M.Phil.												
UG												

24. Emeritus, Adjunct and Visiting Professors

	Emeritus		Adjunct		Visiting	
	M	F	M	F	M	F
Number	03	-	04	-	13	-

25. Distinguished Chairs instituted:

Department	Chairs
<ul style="list-style-type: none"> Phytopharmaceuticals Women's & Child Health Medical Education 	Total - 03

26. Hostel

* Boys' hostel	
i. Number of hostels	06
ii. Number of inmates	708
iii. Facilities (see below)	
* Girls' hostel	
i. Number of hostels	12
ii. Number of inmates	1419
iii. Facilities (see below)	
* Overseas students hostel	
i. Number of hostels	02
ii. Number of inmates	118
iii. Facilities (see below)	

* Hostel for interns	
i. Number of hostels	02
ii. Number of inmate	112
iii. Facilities (see below)	
* PG Hostel	
i. Number of hostels	03
ii. Number of inmate	185
iii. Facilities (see below)	

Following facilities are available in all the hostels :

- Hygienic food facility (Mess facility) provided at all hostels through well equipped Kitchen and Dining hall.
- 24 hours drinking water facility through Aqua guards on each floor to all hostels.
- Anti-ragging Committee and Anti-ragging Squad to maintain "**Zero Ragging Zone**".
- Emergency Medical Room facility.
- First Aid Clinic.
- Generator facility
- Wi-Fi Facility
- Recreation Room
- Reading room
- Gymnasium (available at one of the girls hostels in the campus and NRI boys & girls hostel)
- Television room
- Indoor and Outdoor Sports Complex
- Security guards (round the clock security at all hostels)
- International standard swimming pool in the campus.
- Post office, Bank, stationary shop and temples in the campus
- CCTV cameras at strategic points

27. Students enrolled in the institution during the current academic year, with the following details:

Students	UG		PG						Integrated Masters		M. Phil		Ph.D.		Pharm. D		Integrated Ph.D.	
			PG		DM		MCH											
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
From the state where the institution is located	153	207	44	48	2	0	2	0	16	12	0	0	2	2	3	3	1	1
From other states	178	266	107	104	4	0	4	0	23	15	0	0	0	0	22	37	13	3
NRI students	10	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Foreign students	5	18	0	4	0	0	0	0	1	3	0	0	0	0	2	0	0	0
Total	346	506	152	156	6	0	6	0	40	30	0	0	2	2	27	40	14	4

*M-Male *F-Female

28. Health Professional Education Unit / Cell / Department

University has well established, versatile, active University Department of Education For Health Professionals (UDEHP) which conducts continued education and orientation programs for staff and students throughout the year.

- Year of establishment - November 2007
- Number of continuing education programs conducted (with duration)-A total of **110** Continuing Education Programmes have been conducted by UDEHP with **3102** beneficiaries.
 - * Induction – 30
 - * Orientation -40
 - * Refresher - 11
 - * Post Graduate - 29

29. Does the university offer Distance Education Programs (DEP)?

Yes ☐ No ☒

If yes, indicate the number of programs offered.

Are they recognized by the Distance Education Council?

30. Is the institution applying for Accreditation or Re-Assessment?

Accreditation

☒

Re-Assessment

☐

Cycle 1

☐

Cycle 2

☒

Cycle 3

☐

Cycle 4

☐

31. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4)

Cycle 1: 28th March 2010

Accreditation outcome / Result - Grade 'A' with CGPA grade 3.16

***Annexure IV : Copy of Accreditation certificate and peer team report.**

32. Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated / constituent / autonomous colleges under the university.

Yes

- The University provides the list of accredited institutions under its jurisdiction on its website.
- Number of constituent colleges under the University - 08
 - J. N. Medical College, Belagavi
 - KLE VK Institute of Dental Sciences, Belagavi
 - KLEU Sri BMK Ayurveda Mahavidyalaya, Belagavi
 - KLEU Institute of Physiotherapy, Belagavi
 - KLEU Institute of Nursing Sciences, Belagavi
 - KLEU College of Pharmacy, Belagavi
 - KLEU College of Pharmacy, Hubballi
 - KLEU College of Pharmacy, Bengaluru

33. Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR).

Establishment of IQAC: 06-04-2007

Sl. No.	Year	Dates of submission AQAR
i.	2010-2011	02/06/2011
ii.	2011-2012	30/04/2012 & 25/09/2012
iii.	2012-2013	18/05/2013
iv.	2013-2014	22/05/2014

34. Any other relevant data, the institution would like to include (not exceeding one page).

1. **MHRD** has placed KLE Academy of Higher Education and Research in **Category ‘A’** on 19th October 2012 for its quality education in all fields of health science including health care.
2. Excellent efforts in the field of Maternal and Child Health by the KLE University’s Research Foundation as **Global Network** a division of **NICHD USA** site – 8 have made it the leading site among the nine sites. This exemplary work attracted the visit of dignitaries like **Secretary of Health & Human Services USA, Kathleen Sebelius**, and **Union Health Minister, Government of India, Shri Gulam Nabi Azad**. The commendable work was appreciated by these dignitaries. The Research Foundation has many research collaborations with well known international organizations like WHO, Harvard Fest, European Union and with many international Universities.
3. KLES’s Dr. Prabhakar Kore Hospital and Medical Research Center is a well known multispecialty tertiary care center in the region of north Karnataka catering to the diverse health care needs with bed strength of 2200 of which 1200 are dedicated exclusively for free health care including, preventive and rehabilitation services. The superspeciality section provides the state of the art health care facilities at the lowest cost. The hospital has diagnostic service departments, clinical services, service areas viz. laundry, kitchen, CSSD, backup power supply, AC plant, *manifold rooms*, pharmacy services, blood bank, ambulance services, drug and poison information service, Pharmacovigilance center, mortuary and cold storage facilities.
 - The hospital has **NABL accredited laboratory** and is in the process for NABH accreditation.
4. University has established **Public-Private Partnership** by following ways:
 - Adoption of three primary health centers and three urban health centers to provide health services to the community.
 - Hospital implements the Government funded projects like Balasanjeevini, Suvarna Arogya Bhagya, Vajapayee Arogya Shree, Yashaswini, RNTCP, VCTC & PPTCT.
 - Poison detection center, a unique facility, is available at the teaching hospital. Around 50 poisons / toxic components can be detected.

- Tele-medicine facility at these centers enables expert health advices from super-specialists to reach the rural masses.
 - Many of the faculty members of the University are involved in providing health education at the community level and scientific update to all cadres of health care providers. The faculty members also participate in the audit and quality assurance and improvement meetings (maternal and infant mortality, PCPNDT, communicable diseases etc.) to improve the quality of care.
5. The University has established state of the art research facilities both within campus and off-campus. Within the campus KLE Dr. Prabhakar Kore Basic Health Science Research Center facilitates research in areas of molecular biology, medical microbiology, pharmaceutical analysis and natural product. The center is housed in 10,000 Sq. ft area with investment of Rs. 10 crores. Three senior scientists of Pharmaceutical Analysis and Microbiology are engaged in research. The focus areas are instrumental analysis, medical microbiology, molecular and cellular biology, academic research orientation programmes, international collaborations and scientific workshops for advanced scientists. The instruments such as, Ultra high- performance liquid chromatography (U-HPLC), Quaternary gradient automated HPLC, USP dissolution Tester for Oral Solid dosage forms, Peltier based thermal cycling PCR system, automated chromatographic fraction collector, Associated high-end analytical instruments, etc. are available.
 6. There has been an exponential increase of 90% academic programmes in last four years. A wide range of **163 academic programs** with well designed curriculum of global standard to accommodate diverse needs of students are available.
 7. University has been encouraging Ph.D and inter-disciplinary research and provides incentives for quality research publications in indexed and peer reviewed journals. To-date, **66 Ph.D** have been awarded and **2750** scientific papers have been **published** in indexed peer reviewed journals with **highest impact factor of 54.42** covered under Scopus.
 8. The off-campus, Basic Science Research Center is established at KLEU College of Pharmacy, Bengaluru (743.95 Sq.ft.) with the aim to provide quality service to meet the increased demand by pharmaceutical manufacturing units.
 9. University has substantially increased its collaborations with international and national, government as well as private institutions / organizations / agencies. To date, there are 300 MoUs and collaborations put together.

10. The constituent units of the University, J. N. Medical College and KLE VK Institute of Dental Sciences celebrated their Golden Jubilee and Silver Jubilee in the year 2013 and 2010 respectively. To mark these occasions a wide range of health oriented activities were organized for the benefit of community. Mega health camps and exhibitions were organized for the public. Throughout the year, 159 CMEs, Seminar, Conferences and Workshops were conducted.

Salutation to renowned scientists is a unique practice of the University. So far University has organized 48 Guest Lectures by distinguished scientists from different parts of the globe.

11. Initiation of Center for Disease Control and Surveillance and Poison Detection Center are important features of the hospital.
12. The facility of medicinal plants garden (23.5 acres) is available for Ayurveda and pharmacy research. Around 450 species are grown in the garden.
13. Calendar of events for University and its constituent units is prepared well in advance every year and strictly adhered too.
14. KLE Academy of Higher Education and Research is on air through its establishment of community radio station “**Venu Dhwani**” to facilitate health awareness in the community through expert health consultations.
15. Central Research Facility established at KLEU Sri BMK Ayurveda Mahavidyalaya, Belagavi, is approved by Dept. of **AYUSH, Govt. of Karnataka** as ASU drug testing laboratory.
16. The Diploma in Spirituality and Value Education is introduced for the benefit of students and faculty. The programmes like ‘Jago Bharat’ and ‘Reasons for Disasters and their managements’ are regularly conducted.

CRITERION I

CURRICULAR ASPECTS



CRITERION I : CURRICULAR ASPECTS

1.1 Curriculum Planning, Design and Development

1.1.1 Does the institution have clearly stated goals and objectives for its educational program?

Yes

The University was established in April 2006. It framed its goals and objectives essential for health education programs.

Goals:

- To prepare health professionals for clinical, educational and leadership role to a variety of settings.
- To provide highest quality patient care which meets the individual needs and is based on current standards of health care and emerging scientific research.
- To promote optimal health for the public through community outreach programmes.
- To promote high quality and relevant education for health and social work required by professionals.

Objectives:

- To implement effective programs through creativity and innovation in teaching, learning and evaluation.
- To periodically review and redesign the curriculum to make existing programs more career-oriented.
- To impart spirit of inquiry and scientific temperament among students through research-oriented activities.
- To enhance reading and learning capabilities among faculty and students and to inculcate sense of life-long-learning.
- To promulgate process for effective and continuous and objective-oriented student performance evaluation.
- To incorporate themes to build values, civic responsibilities and sense of national integrity through education.
- To ensure that the academic career and personal counseling are in-built into the system of curriculum delivery.
- To strengthen, develop and implement welfare programs for staff and students.

- To adopt and implement principles of participation, transparency and accountability in governance of academic and administrative activities in education.
- To constantly display sensitivity and respond to changing educational, social and community demands.
- To promote public-private partnership to help learners to understand their role in community service.

1.1.2 How are the institutional goals and objectives reflected in the academic programs of the institution?

The academic programmes are intended to suit the goals and objectives. The **Vision-2020** document of the University provides guidelines towards the policies of its short term, midterm and long term goals to achieve its academic, research and co-curricular objectives.

The institutional goals and objectives are reflected in the academic programme. The students are trained for theoretical, practical / preclinical / para-clinical / clinical skills. The course content includes community based services, posting of students to specialty centers, PHC, UHC, industry, and satellite centers. The students are taught law & Indian constitution, environmental sciences, professional ethics, communication skills and research methodology.

The academic programmes offered train the students to become skilled ethical professionals capable of acquiring global competencies. The academic programmes for faculty include continuous training through faculty development programmes for academic upgradation and incorporation of research as important component of academic programmes offered. The community based services are taught through posting at PHC, UHC and satellite centers or industries.

To meet its goals and objectives, the University reviews and restructures the syllabus and curriculum through well framed policies, obtains feedback from stakeholders, forwards it to the Board of Studies (BoS) for its consideration and then places for approval of the Academic Council.

The university has established a separate Department of UDEHP. It has also established Department of Master of Public Health and Department of Biostatistics to consolidate academic programmes offered by its constituent units.

1.1.3 Does the institution follow a systematic process in the design, development and revision of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).

Yes

Minimum requirements and standards and quality of education in each constituent unit of the University are governed by respective regulatory bodies, such as MCI, DCI, PCI, AICTE, INC and CCIM.

University at its inception had prepared **Vision-2020** Document that provides strategy for overall development with emphasis on its unique methodology for curriculum design and redesign. The University has adopted nine stage curricular development approach.

1. **Conceptual Design** : Based on guidelines of the respective Central Councils and keeping in view the local, regional, national and international needs, the faculty of the concerned department prepares the conceptual frame work for existing and proposed new programmes.
2. **Review of the Conceptual Design**: The conceptual frame-work is placed before the respective Departmental Committee for its approval. After detailed discussions, the conceptual design alongwith the draft curriculum is sent to external experts for their review and suggestions.
3. **Detailed Design**: The suggestions received from the external experts are placed before the Departmental Committee and based on the suggestions, the Departmental Committee prepares the detailed unit-wise curriculum for each subject with type of training required to be covered, standard of passing, blue-print of question paper, etc.
4. **Design Verification**: At this stage, the Departmental Committee verifies the correctness of the curriculum, weightages assigned to each unit, standard of passing and blue-print of the question paper and confirms that regulatory body guidelines are met with. The correctness of the content and language is ascertained by the senior faculty.
5. **Validation**: The curriculum so prepared and validated by the Departmental Committee is placed before the respective Board of Studies for further discussion and approval.
6. **Recommendations**: The curriculum placed before the BOS is discussed in detail and the suggestions / recommendations, if any, are incorporated and are placed before the Academic Council for its approval.
7. **Implementation** : The curriculum so approved by the Academic Council is implemented by the faculty for the benefit of students.
8. **Feedback**: The feedback obtained through structured questionnaire from students, examiners, academicians and alumni members is placed before the Departmental committee. The recommendations of the

Departmental Committee are reviewed for its consideration by the Board of studies.

9. **Re-structure:** Structured feedbacks are obtained from all the stakeholders like academic peers, alumni, students, external examiners and subject experts. The analyses of feedbacks and specific recommendations by individual department regarding relevance, correctness and redesigning are forwarded to concerned Board of Studies and then to Academic Council for its consideration.

The orientation programs on curriculum design and development and analyses of feedbacks using computer-aided technology are conducted regularly by UDEHP. The University reviews the curriculum with addition of current and relevant issues and elimination of obsolete and extraneous topics. The University revises its syllabus once in three years.

1.1.4 How does the curriculum design and development meet the following requirements?

* COMMUNITY NEEDS

The sponsoring Society and University aim to promote optimal health for public through community outreach programs. The community-based training and education constitute core of the curriculum designed.

The clinical data on prevalence of disease available through rural, urban health centers and community health check-up camps helps in the community-oriented education for undergraduate and postgraduates.

The University health programs emphasize on community-oriented health education, prevention and management of diseases. Curriculum is redesigned by incorporating topics emphasized by international and national research agencies that promote and facilitate community health.

* PROFESSIONAL SKILLS AND COMPETENCIES

For inculcating professional skills and competencies amongst students, the curriculum is developed by providing adequate weightage to Pre-, Para- and clinical exercises, laboratory exposure, training at Community level / industry and research-orientation with an objective of achieving the goals health professionals.

The curriculum design has definite allotment of scores for formative and summative assessment of students that enables evaluation of professional skills and competencies. Curriculum has specific allocation of percentages of laboratory practice, as well as, Pre, Para- and clinical training.

Apart from routine practice, training of the students through simulators and clinical skill lab has helped them to acquire the newer and specific skilled based training.

*** RESEARCH IN THRUST/EMERGING AREAS**

The syllabus of academic programs clearly state the thrust areas of research in health sciences especially in emerging fields of health profession.

The students are sensitized to research through orientation programmes and are encouraged to take up short and long-term research in emerging areas. They are trained for writing research proposals, grant-writing and manuscripts submission for national and international journals.

Latest techniques and emerging areas in disease trends and newer technologies are included in recently revised syllabi of all disciplines.

*** INNOVATION**

The University has always been encouraging innovations in all fields including, curriculum design and development. Introduction of integrated teaching and learning modules, problem-based learning and focus group discussions for undergraduate and postgraduate students constitute important components of curriculum.

The Objective Structured Clinical Examination (OSCE) / Objective Structured Practical Examination (OSPE) are carried out for formative assessment of students. Multiple Choice Questions (MCQ) are included in summative examination.

The other innovative measures implemented in curriculum are listed below :

- Inclusion of Bio-Statistics as compulsory subject in Ph.D curriculum.
- Adoption of semester system for MPH, MHA, M Sc. Clinical Research & B Pharm.
- Animal experiments replaced by computer simulation, wherever required.
- Introduction of newer certificate and diploma courses in various disciplines for undergraduate, postgraduate and faculty members.
- Addition of course such as Diploma in Spirituality and Value Education, Diploma in Sugam Sangeeta and certificate courses in music to address ethical and moral issues.
- Adoption of innovative teaching technologies like simulators, models, clinical skill lab for hands on practical training.
- Flexibility in duration of teaching, clinical training and scheme of examination within limits of regulatory councils.

*** EMPLOYABILITY**

All the academic programmes offered by the University are in emerging areas which ensure high employability.

The clinical training, classroom teaching and community-based teaching have been allotted appropriate hours in the curriculum that matches the credential evaluation of agencies in India and abroad which improves the prospect of employability. Before revising the curriculum, a need-assessment for job opportunities is conducted by interacting with academic experts, entrepreneurs, research institutes or organizations and alumni.

Community based research and skill-based training have helped in employability. The Allied Courses offered by the University have been developed keeping in view the job-potential they possess.

The courses in discipline of Ayurveda, the traditional system of Indian medicine, offer good job opportunities in both rural and urban areas, in view of the encouragement given by Government of India in recent years.

1.1.5 To what extent does the institution use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the institution been instrumental in leading any curricular reform which has created a national impact?

Each Council has a national curriculum framework which is responsible for developing the model curriculum. The University adopts the same with 10 to 20% additional inputs depending on the local, regional and international needs.

The international collaborative study undertaken by the University Research Foundation on use of misoprostol for reducing post partum bleeding has been accepted by the Ministry of Health and Family Welfare, Government of India and incorporated in the guidelines.

The Department of Medical Education, J.N. Medical College is recognized by MCI as **Nodal Center** for advanced training in Medical Education Technology covering 39 institutes across four states. The Institute of Physiotherapy has been instrumental in developing curriculum for Master of Physiotherapy (MPT) in Orthopedics Manual Therapy (OMT), Obstetrics and Gynecology (OBG), Geriatrics and Postgraduate Diploma in Cardiac Rehabilitation (PGDCR) which is one of its kind in India.

1.1.6 Does the institution interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the institution benefitted through interactions with the stakeholders?

Yes

Initiation:

The University started with some of its key missions like, “Fulfill the national obligation through rural health mission” and “Promote University-Industry collaborations at regional, national and international levels with other benchmarked Universities”.

Sustenance:

Feedbacks are obtained from faculty, employers, alumni and other stakeholders for the revision of the syllabi. Postgraduate students are posted at leading pharmacy industries for technical exposure and industrial experience. Their feedback is utilized for curriculum reforms.

Enhancement:

Applications of Good Clinical Practices (GCP), Good Manufacturing Practices (GMP) and Good Laboratory Practices (GLP) for the respective programmes have added quality to the education imparted in various courses. Collaborations with prestigious institutes like Global Network of NICHD (USA), WHO, University of British Columbia, Canada, University of Illinois, Chicago, University of Michigan, Indian Council of Medical Research (ICMR), Institute of Genomics and Integrative Biology (IGIB), Council of Scientific and Industrial Research (CSIR), Regional Medical Research Center (RMRC), AICTE, etc. have led to evolution of new courses, innovative practices and stringent quality control.

1.1.7 How are the global trends in health science education reflected in the curriculum?

General Agreement on Trade in Service (GATS) has identified 13 major sectors and education is one of the major service sectors. Hence, incorporating global trends in health education is our main focus.

Curriculum design and development is based on feedbacks obtained from international and national experts in the subjects and also from alumni placed overseas.

The global trends initiated are (i) Web based teaching and training modules, (ii) Incorporation of new academic programmes (iii) Conduct of need based-research, and (iv) Research related to alternative medicines.

The national and global trends in higher education are reflected in the curriculum by inclusion of subjects like, Nanomedicine, Pharmacotherapeutics, Pharmacovigilance, Medical biotechnology, Intellectual Property Rights (IPR), Regulatory Affairs and Clinical Trials.

The course contents in all the program are continuously updated in tune with global trends. Enormous demand for alternative medicine has resulted in collaboration with Middlesex University, London. This has facilitated clinical placements for the M.Sc. Ayurveda students in hospitals. The University has initiated a range of training programmes for development of moral and social values.

1.1.8 Give details of how the institution facilitates the introduction of new programs of studies in its affiliated colleges.

KLE Academy of Higher Education and Research is a private Deemed University. Under its umbrella presently, there are eight constituent units.

Initiation:

There are a total of 163 programmes offered by the University. In the last 5 years, the University has started 5 undergraduate, 31 post graduate courses, 6 Diploma and post graduate Diploma, 2 fellowship programs, 3 Super-Specialty, 5 Ph.D, 18 Certificate courses and 4 other value added courses.

Sustenance:

- Inputs are obtained from students, employers, alumni and academic peers regarding introduction of new programme, the introduction follows a systematic procedure of implementation, which is as follows:-

Conceptual framework by Department → Proposal to BoS → Academic Council → Administrative approval of BoM → Notification of new program & Syllabus → Implementation

- Over the years, there has been impressive increase in the number of academic programmes. It has reached 163 programmes that amounts to 90% increase in last five years.

Enhancement:

- University encourages and strongly supports innovative programmes proposed by its constituent colleges.
- The collaborations and establishment of Memorandum of Understandings over the years with academic and research agencies have facilitated its constituent colleges to widen the range of programs.
- Faculty exchange with international and national universities of high repute have inspired development of new programs.
- Diploma in Value Education and Spirituality & Certificate courses in Music, are the innovative programs introduced by University.
- Master of Public Health (MPH) is particularly promoting social and community health responsibilities amongst the students.
- The course curriculum of Constitution of India, Environmental Studies and social aspects of medicine for undergraduate students gives insight for a holistic development of students and in turn, help to develop them into responsible citizen.

1.1.9 Does the institution provide additional skill-oriented programs relevant to regional needs?

Yes

Initiation:

To meet the objective of creativity and innovations, University has launched skill oriented programs.

Sustenance:

The Institution provides additional skill oriented programs such as Basic Life Support (BLS), Advanced Life Support (ALS) and intensive training program, museum technology, transfusion medicine, etc. relevant to the regional needs.

Enhancement:

- Through their skill development cell, Ayurveda Mahavidyalaya has established **Panchakarma therapist course** which has trained the local health care men and women. They have been absorbed as Panchakarma therapists at various centers.

- Programs like Plaster Techniques in Orthopedics, Intensive Care Nursing, etc. started by the University are relevant to regional needs.
- Skill-oriented training programs such as Helping Babies Breathe (HBB), NSSK (Navjyot Shishu Suraksha Karyakram), etc are promoted by the University.

1.1.10 Explain the initiatives of the institution in the following areas:

* BEHAVIORAL AND SOCIAL SCIENCE

- The students are trained in subjects of sociology, psychology, communication technology, environmental sciences and communication skills.
- The institution organizes regular lectures and workshops for faculty and students on Behavioral and Social concepts by spiritual leaders from social and spiritual organizations such as Ramakrishna Ashram, ISCON, Om-Shanti, etc. It helps the youngsters to remain focused towards their goal.
- The psychological and behavioural issues are dealt by the trained counselor and mentors.
- The University has introduced Diploma Course in Value Education and Spirituality.
- Booklet on Student Code of Conduct emphasizes on the behavior of students, their rights and responsibilities.

* MEDICAL ETHICS / BIO ETHICS / NURSING ETHICS.

- Ethics of profession is part of curriculum in all disciplines of the constituent units.
- University monitors the research projects through its Ethics Committees for human and animal research.
- Institutional Review Board (IRB) of KLE Academy of Higher Education and Research is recognized by **Office for Human Research Protections** by the **U.S. Department of Health and Human Services (DHHS)** for research involving human subjects and clinical investigation regulated by **Food and Drug Administration (FDA)** of DHHS.
- The students are taught the Constitution of India, Law and Jurisprudence to create awareness about the rights and responsibilities.
- All the constituent units of the University have Institutional Ethics Committee that looks into the short-term and long-term research projects taken up by staff and students.
- Site Management Office (SMO) looks after ethical aspects of clinical trials in the hospital.

*** PRACTICE MANAGEMENT TOWARDS CURRICULUM AND / OR SERVICES**

Managerial aspects have been included in the UG and PG programmes of all constituent units. The course curriculum of Physiotherapy has Management as a subject that deals with self-management, management of clinics and time management.

University organizes workshops on Practice management for faculty and students of all disciplines through its constituent units.

The students develop managerial skills and leadership qualities through their postings in clinical areas to learn the skills in day to day activities.

- University brings out annual **Calendar of Events & Academic Calendar** well in advance and much ahead of beginning of academic year and religiously adheres to it. This innovative practice of University is meticulously followed by its constituent colleges.
- UDEHP has its own well-planned calendar for faculty development programmes which is unique element of University.
- Clinical Skill Laboratory in the hospital and Basic Science Research Center have their exclusive schedules for training faculty and students.

*** ORIENTATION TO RESEARCH**

To impart spirit of inquiry and scientific temperament among students through research-oriented activities is one of the objectives of the University. Research has been an integral part of undergraduate and postgraduate curriculum.

- The research scholars and postgraduate students undergo orientation / training program on research methodology, research ethics and bio-statistics.
- Institutions regularly conduct journal clubs as part of curriculum to enhance their research instinct.
- UG students are also encouraged to do research activities by participating in research projects.
- Faculty members are encouraged to do Ph.D in KLE Academy of Higher Education and Research with concession in fees.
- Workshops and training programs are conducted on research methodology by all constituent units and UDEHP.
- Specific workshops/CME on grant-writing / protocol, manuscript-writing and submission are conducted by experts.

- Faculty and students attend guest lectures by invited eminent scientists & attendance of the same is maintained.
- University encourages participation of faculty in research oriented programs like Certificate course in Biostatistics, PGDHPE and Research Mentorship.

* REHABILITATION

Health science is rapidly expanding so is the field of rehabilitative science, that encouraged inclusion of this art and science in the curriculum. The curriculum promotes learners of various capabilities. Various concepts of rehabilitation are mandatory part of curriculum in all disciplines.

- The teaching hospital has rehabilitation center for artificial limbs, artificial prosthesis for Orthopaedic patients, ICTC center for HIV infected patients along with cardiac rehabilitation setup.
- Artificial prosthesis for deformities in eyes, fingers, ears and other Orofacial complex is carried out by department of Prosthodontics & Crown and Bridge in Dental Sciences unit.
- Slow learners are identified in all disciplines that are adequately trained to meet the required competency level. The institutes promote parental involvement in progress of slow learners, so as to bring them to main stream.
- University has initiated rehabilitation program like post graduation in Community Based Rehabilitation, Postgraduate Diploma in Cardiac Rehabilitation, Pulmonary Rehabilitation and Psychiatric counseling.
- Advanced learners are promoted to participate in the research activities including inter-University competitions.

* ANCIENT SCRIPTURAL PRACTICES.

- Ayurveda Mahavidyalaya follows these ancient scriptural practices as per the guide lines of AYUSH.
- Procedures like Panchakarma, Angikarma, Ksharakarma, Kriyakalpa etc. are being practiced routinely.
- The curriculum of Physiotherapy includes orientation to magnetotherapy, naturopathy, acupuncture, acupressure, yoga & other ancient and traditional methods of healing.
- Curriculum for Medicine includes course content on Ancient scriptures.

The steps initiated for quality enhancement are

- Introduction of Diploma in Value Education and Spirituality.
- Incorporation of meditation and yogic practices in the curriculum.
- Following the ancient scriptural practices. Faculty of ayurveda has developed new innovative certificate and postgraduate programs.
- Extensive research carried out in the field of ayurveda is based on ancient scriptural practices with scientific applications.

* **HEALTH ECONOMICS**

The curriculum includes biostatistics wherein the students are involved in conducting surveys related to health issues, socio-economic issues and differently-abled population, etc. under practice of health economics.

The institutional Health economics policies allow for the systematic and rigorous examination of the health packages offered, defining insurance packages and following the principles of National Health Programmes.

Health economics is a part of curriculum in MHA and MPH. Pharmaco-economics is part of Pharmacy curriculum.

The hospital is concerned and has in place policies with issues related to efficiency and effectiveness of its health delivery systems. Health care packages are offered for comprehensive treatment procedures and for advanced treatment procedures. Diagnostic packages offer basic to advanced diagnostic techniques.

- Policies for behavioral management like tobacco counseling, diet counseling, mental and psychological counseling etc are available and are widely in use.
- All national health care programmes are taken up and are rigorously followed in the hospital, PHC and UHC.
- Departments of community medicine, community dentistry, community nursing, community ayurveda and community based rehabilitation conduct regular surveys related to cost-effective health care.
- University conducts orientation programs on issues related to efficiency, effectiveness, value and behavior in the promotion and utilization of health care.
- Students are taught to evaluate multiple types of financial information - costs, charges and expenditures.
- De-addiction center in Department of Psychiatry is proactive. Tobacco counseling Cell and obesity Cell are functional.

*** MEDICOLEGAL ISSUES**

The Curriculum of post-graduation in Forensic Medicine, Forensic Odontology and Forensic Pharmacy has large component of medico-legal issues.

- The students undergo training on 'Law and Jurisprudence'. The undergraduate curriculum in various disciplines also gives training to the students on legal issues and its forensic applications.
- University also organizes workshops on medico-legal issues.
- Departments of Forensic Medicine and Forensic Odontology deal with training students in medico-legal aspects.

The students are encouraged to take up research related to medico-legal aspects. The research curriculum includes details of legal aspects in research on vulnerable subjects and animals as per the ethical norms.

*** ENHANCEMENT OF QUALITY OF SERVICES AND CONSUMER SATISFACTION**

- The curriculum of all disciplines is designed in such a way that the course can deliver quality services to the stakeholders.
- Feedbacks and suggestions are obtained from students and patients regarding quality of services.
- Suggestion boxes are placed in all constituent units, teaching hospital and University.
- The feasible and workable suggestions are implemented which enhance the quality of services to the stakeholders.
- All constituent units have registered Parent-Teacher Associations. Feedback is also obtained from parents and alumni during the meetings which are held regularly.
- The quality enhancement is attained by regular checks at departmental and institutional levels by various Boards of University. The analyses of feedbacks have helped to identify the strengths and weaknesses and the same is used to enhance the quality of services.

1.1.11 How does the institution ensure that evidence based medicine and clinical practice guidelines are adopted to guide patient care wherever possible?**Initiation:**

Evidence based practices are part of curriculum of undergraduates and postgraduates.

Sustenance:

- University organizes workshops on evidence based medicine and clinical practice.
- The constituent units of the University have Wi-Fi facility which enables evidence based practices.
- The constituent units have Standard Operative Procedures (SOPs) towards patient's management.
- The hospital has NABL accredited laboratories.
- The efficacy formats have been developed for recording details of patients. This records different symptoms of the patient before and after treatment. These formats are subjected to statistical analysis through which efficacy of treatments is monitored.

Enhancement:

- The institutions have kept their standards high at par with international level.
- The existing Tele-pathology and Tele-medicine facilities enable students and faculty to understand better patient care.
- Good Clinical Practices (GCP) are adopted in hospital and all constituent units.

1.1.12 What are the newly introduced value added programs and how are they related to the internship programs?

Value added programs have always been priority of the University.

The University has introduced new value added programs in various disciplines, which include Certificate courses like Bio-Statistics, Musical Vocal Hindustani, Sugam Sangeet (Vocal), Geriatric Nursing, Finishing school in Dentistry, Ayurveda dietetics, etc., and Diploma in Value Education & Spirituality.

- The workshops and orientation programs emphasizing code of ethics are conducted regularly by the senior teachers.
- Eminent personalities also address the importance of value added programs during internship.

1.1.13 How does the institution contribute to the development of integrated learning methods and Integrated Health Care Management?

*** VERTICAL AND HORIZONTAL INTEGRATION OF SUBJECTS TAUGHT**

The curriculum contains information regarding different medical, surgical, spiritual, and yogic methods of management which contributes to integrated health care.

- University encourages integrated teaching in constituent units. Horizontal integration is already in existence in some of the constituent colleges. The feedback obtained from the students is highly appreciative regarding the same.
- As a part of clinical teaching the students are exposed to various specialty departments to improve their participation in integrated health care management.
- The PG students are encouraged to take research involving integrated health care management.
- University and the hospital administration together have developed integrated health care management through inputs, delivery, management and organization of services related to preventive, curative, promotive and rehabilitative health care.
- State of art facilities at the tertiary hospital have patient friendly services in relation to access, quality treatment, accessibility to integrated health systems to maximize their satisfaction and outcome.
- The institution provides sufficient infrastructure facility that promotes development of integrated health care.
- Ph.D. program is available in the University in inter-disciplinary health science.

*** INTEGRATION OF SUBJECTS TAUGHT WITH THEIR CLINICAL APPLICATION.**

- The process of integration of different subjects was initiated by the feedbacks from the students.

- The time table has been revised in constituent units which has enabled better clinical management of the diseases by integration of subjects.
- The clinico-pathological meets and inter-departmental case discussions have improved the clinical applications to a great extent.
- Quality Enhancement is attained through inter-departmental seminars, case discussions at common platforms and assessment of ADR reports at bedside.
- National health programs such as Reproductive Child Health (RCH), Revised National Tuberculosis Control Programs (RNTCP) and National Rural Health Mission (NRHM), etc. are implemented by integrated approach.

*** INTEGRATION OF DIFFERENT SYSTEMS OF HEALTH CARE (AYURVEDA, YOGA, UNANI, HOMEOPATHY, ETC.) IN THE TEACHING HOSPITAL**

Initiation:

The concepts such as wellness, holistic health care, yoga, fresh air and herbs are gaining significance as human civilization has perhaps, learnt that a bitter route is better than the sugar-laced pill. This concept has initiated the curriculum to give more weightage to integration of different systems.

Sustenance:

- All hospitals have various specialty clinics along with well-equipped Physiotherapy, Ayurveda, Homeopathy and Yoga units.
- Most of the chronic disorders are treated simultaneously with Yoga, Panchakarma and Physiotherapy techniques.
- **Utsaaha** (life style management and rejuvenation center) is one such special unit where the patients are treated with combination of Panchakarma, Physiotherapy, Yoga and Ayurvedic diet & lifestyle.
- **Srishti** is another unit where treatment of infertile couples is approached by using advanced diagnostics and treatments by Ayurveda modalities including IUI.
- Students of many disciplines have taken up projects on use of herbal medicines which are funded by ICMR.

Enhancement:

- The students of school of music conduct a unique program for the patients in the teaching hospital named “*Melody vs. Malady*” and “*Ragas for Rogas*” on every third Friday of the month.
- Yoga classes are conducted for students and faculty in the mornings in hospitals.
- Some of the Ph.D. research work has been based on different systems of health care.

1.1.14 How is compatibility of programs with goals and objectives achieved with particular reference to priority of interface between Public Health, Medical Practice and Medical Education?**Initiation:**

- All the programs are compatible with goals and objectives of the University.
- Curriculum of various programs has component of community / public health, medical practice in clinical training, and medical education in the form of seminars, workshops and awareness programs.

Sustenance:

- Clinical training is provided in outreach health centers like PHCs and UHCs.
- The students participate in health camps in remote villages, slum and tribal areas, as well as, during outbreaks of chikungunya, dengue, etc.
- NSS, Women Empowerment Cell and Youth Red Cross (YRC) of the University are very active in these outreach programmes.
- Ayurvedic Swasthavrittha deals with prevention and maintenance of the health, through awareness programs on Ayurveda diet and lifestyle.
- The students conduct awareness programmes on special days like No Tobacco Day, Acquired Immuno Deficiency Syndrome (AIDS) Prevention Day, Eye donation, Antimalaria day, etc.
- Scientific exhibitions are conducted on Water Saving Day with working models of water purification techniques and methods to store the water in different containers.

Enhancement:

- These programmes enhance participation of students, identify the needs and provide services to community through health education and effective intervention programs.
- University has well established Public Private Partnership (**PPP**) with the District Health administration and Government of Karnataka.

1.2 Academic Flexibility**1.2.1 Furnish the inventory for the following:***** PROGRAMS OFFERED ON CAMPUS**

Initiation: The University began with 89 programs.

Sustenance:

There has been gradual increase in the number of programs offered by the University based on the feedbacks obtained from alumni, students and health practitioners on a regular basis.

Enhancement:

This has lead to 163 programs showing 90% increase.

Total number of programs offered (163) by the University from 2009 to 2014

Programs	No. of Programs	Name of the Programs
UG	14	1. MBBS 2. BDS 3. BAMS 4. B.Pharm 5. B.Sc.(Nursing) 6. PB B.Sc. Nursing 7. BPT B. Sc. Allied Courses 8. Medical Lab Technology 9. Radiography 10. Cardiac Care Technology 11. Perfusion Care Technology 12. Anaesthesia Technology 13. Neuro-Science Technology 14. Physician Assistant

Programs	No. of Programs	Name of the Programs
PG	69	<p>MD/MS</p> <p>M.D</p> <ol style="list-style-type: none"> General Medicine Paediatrics Dermatology Anaesthesiology Radio-Diagnosis Pulmonary Medicine Psychiatry Pathology Microbiology Pharmacology Community Medicine Forensic Medicine Physiology Biochemistry General Surgery Obstetrics & Gynaecology Orthopedic Ophthalmology E.N.T Anatomy <p>Allied Courses</p> <ol style="list-style-type: none"> Master of Public Health Master of Hospital Administration M.Sc. Anatomy (Medical) M.Sc. Physiology (Medical) M.Sc. Biochemistry (Medical) M.Sc. Perfusion Technology (Medical) M.Sc. Echocardiography (Medical) M.Sc. Clinical Research Microbiology(Medical) <p>MDS</p> <ol style="list-style-type: none"> Endodontics & Conservative Dentistry Prosthodontics and Implantology Oral and Maxillofacial Surgery Orthodontics & Dentofacial Orthopedic Pedodontics & Preventive Dentistry

Programs	No. of Programs	Name of the Programs
		35. Periodontology 36. Public Health Dentistry 37. Oral Medicine & Radiology 38. Oral Pathology & Microbiology MD / MS Ayurved 39. Rasashastra & Bhaishajyakalpana 40. Dravyaguna 41. Kayachikista 42. Shalyatantra 43. Kaumarabhritya 44. Panchakarma 45. Agadatantra 46. Sanjnaharana M.Sc. Nursing 47. Medical Surgical Nursing 48. OBG Nursing 49. Paediatrics Nursing 50. Community Health Nursing 51. Psychiatry Nursing MPT 52. Orthopaedic Manual Therapy 53. Paediatric Physiotherapy 54. Orthopaedics Physiotherapy 55. Neurology Physiotherapy 56. Community based Physiotherapy 57. Cardio Respiratory Physiotherapy 58. Sports Physiotherapy 59. Physiotherapy in OBG 60. Geriatric Physiotherapy M. Pharm. 61. Pharmaceutical Chemistry 62. Pharmaceutics 63. Pharmacognosy 64. Pharmacology 65. Pharmacy Practice 66. Pharmaceutical Biotechnology 67. Quality Assurance 68. Pharmaceutical Technology 69. Pharm. D.

Programs	No. of Programs	Name of the Programs
Ph.D	07	1. Faculty of Medicine 2. Faculty of Pharmacy 3. Faculty of Dentistry 4. Faculty of Ayurveda 5. Faculty of Physiotherapy 6. Faculty of Nursing 7. Faculty of Inter-disciplinary Research
PG Diploma Courses	23	1. DGO 2. DCH 3. D. Ortho. 4. D.O.M.S 5. DLO 6. DVD 7. DA 8. DMRD 9. D.C.P 10. D.P.H 11. D.F.M 12. Nano Medicine 13. Diabetology 14. Clinical Research 15. Medical Tourism 16. Geriatric Medicine 17. Pulmonary Rehabilitation 18. Public Relations (Hospital) 19. Transfusion Medicine 20. Library Science 21. Vascular Surgery 22. Psychiatric counseling 23. Cardiac Rehabilitation
Certificate Courses	23	Medical 1. Minimal Access Surgery 2. Small Incision Cataract Surgery 3. Bio-statistics 4. Psychological Counseling 5. Plaster Techniques in Orthopaedics 6. Paediatric Dermatology 7. Clinical Pathology 8. Health Museum Technology

Programs	No. of Programs	Name of the Programs
		Dental 9. Finishing School in Dentistry 10. Fundamentals of Epidemiology & Bio-Statistics in Dental Research 11. Oral and Maxillofacial Implantology 12. Excellence in Esthetics 13. Perioesthetic Periodontal Surgery Ayurveda 14. Panchakarma 15. Ayurveda Dietetics 16. Ksharasutra 17. Vajikarana 18. Ayurtech 19. Ayurgenomics 20. Reverse Pharmacology 21. Ayur Cardiology Nursing 22. Geriatric nursing 23. Intensive Care Nursing (Nursing)
Super Speciality	08	D.M /M.Ch 1. M.Ch. (Urology) 2. M.Ch. (CTVS) 3. D.M. (Neurology) 4. D.M. (Cardiology) 5. M.Ch. (Plastic Surgery) 6. M.Ch. (Neuro Surgery) 7. M.Ch. (Paediatric Surgery) 8. D.M. (Cardiac Anaesthesia)
Fellowship Programs	15	Fellowship courses 1. Neonatology 2. Cardiac Anaesthesiology 3. Paediatric Urology 4. Maternal Fetal Medicine 5. Non-invasive Cardiology 6. Cleft & Craniofacial Surgery 7. Micro Ear Surgery 8. Clinical Paediatric Cardiology 9. Minimal Access Surgery

Programs	No. of Programs	Name of the Programs
		10. Sports Medicine 11. Interventional Cardiology 12. Clinical Immunology & Rheumatology 13. Joint Replacement 14. Intensive Care Medicine 15. Geriatric Medicine
Any other	4	1. Diploma in Music (Vocal Hindustani) 2. Certificate Course in Music Hindustani 3. Certificate Course in Music Sugam Sangeet 4. Diploma in Value Education & Spirituality

*** OVERSEAS PROGRAMS OFFERED ON CAMPUS-**

None

*** PROGRAMS AVAILABLE FOR COLLEGES / STUDENTS TO CHOOSE FROM**

Initiation:

89 programs were available at the inception of the University.

Sustenance:

- One of the major considerations of University is to provide quality and diverse learning environment that has lead to increase in the number of programs available to the students.
- The research collaborations have given boost to newer programs.

Enhancement:

- Apart from regular undergraduate and postgraduate courses, many innovative certificate courses, Diploma in Value Education and Spirituality, Diploma in Music, etc. have attracted many students.

1.2.2 Give details on the following provisions with reference to academic flexibility

- a. Core options
- b. Elective options
- c. Bridge course
- d. Enrichment courses
- e. Credit accumulation and transfer facility
- f. Courses offered in modular form
- g. Lateral and vertical mobility within and across programs, courses and disciplines and between higher education institutions
- h. Twinning programs
- i. Dual degree programs

Initiation:

The regulatory bodies do not provide core, elective and credit accumulation. However, University has explored the feasibilities and initiated certain programs that have attracted many students.

Sustenance:

- Core option in MPH and Pharmacy course.
- Elective option in MPH, MHA, Nursing and Pharmacy courses. Medical Interns have the option of choosing electives during internship.
- Bridge course in Bio-statistics for students of Health Science.
- Some certificate courses are in modular form.

Enhancement:

- Enrichment courses such as research degree, fellowship, post graduate diploma, certificate courses, and value added courses.
- Institute of Nursing Sciences offers course on Intensive Care Nursing in modular form.
- B. Pharm. and MPH courses have semester system.
- Twinning program is permitted during Ph. D.

1.2.3 Does the institution have an explicit policy and strategy for attracting students from

- * **Other States**
- * **Socially and Financially Backward Sections**
- * **International Students?**

Yes

Initiation:

Under Graduate All India Entrance Test (UGAIET) and Post Graduate All India Entrance Test (PGAIET) are carried out at 14 different centers all over India. It facilitates attracting students from different states of the country. It is evident from the enrollment of students in different countries. Around 57.6% students are from states other than Karnataka

Sustenance:

- Information regarding entrance examinations is made available on University website. Wide publicity is made through national daily news papers. The websites of constituents units displays information about the courses, activities, faculty profile and its world class amenities.
- Admissions to various courses are merit-based and as per the seat matrix formed by University and State Government.
- As per Government of India regulation there is 15% of seat matrix reserved for NRI / Foreign students. Admission is strictly as per regulations of Association of Indian Universities. The students from Malaysia, Kenya, USA, Canada, UK, Sri Lanka, Nepal and UAE are enrolled for different programs
- There is a 5% relaxation in aggregate marks for eligibility for socially backward students.
- The university has started with unique '*Earn While You Learn*' scheme that helps financially backward students.

1.2.4 Does the institution offer self-financing programs? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programs?

Yes

All the 163 programs offered by University are self-financing in nature. The admissions are through All India Entrance Test for undergraduate and postgraduate programmes.

- The policies regarding admission, fee structure, teacher qualification and salary is well monitored and are at par with the aided programs.
- The total applications received for all disciplines have been increasing every year with a record of 5788 in 2013 and more than 6000 applications for the current year. This indicates the awareness created amongst and interest shown by the students in quality education offered by KLE Academy of Higher Education and Research.

1.2.5 Has the institution adopted the Choice Based Credit System (CBCS) / credit based system? If yes, for how many programs? What efforts have been made by the institution to encourage the introduction of CBCS in its affiliated colleges?

The regulatory bodies like, MCI, DCI, NCI, CCIM and PCI do not have provision for choice based credit system. However, University is in the process of exploring the feasibility of introducing choice based credit system for Para-medical programs in its constituent units.

1.2.6 What percentage of programs offered by the institution follow :

- Annual system – 98% - UG & PG Programs in Medical, Dental, Ayurveda, Pharmacy, Nursing and Physiotherapy, have annual system.
- Semester system – 2% - B. Pharm., M.Sc. Clinical Research and MPH program follow semester system.
- Trimester system – Trimester system policy does not fit into the rules of regulatory Councils.

1.2.7 How does the institution promote multi/inter-disciplinary programs? Name a few programs and comment on their outcome.

Initiation:

Starting of newer relevant programs with upgradation and modification of existing programs to cater to the newer technological changes in health sciences has been one of prime objectives of the University.

Sustenance:

- Multidisciplinary programmes of the institute are between health professionals of : (a) Ayurveda and Pharmacy (b) Dental and Medical (c) Physiotherapy and Medical (d) Medical and Ayurveda

For Example; Smile train Project for Cleft lip and Palate is between Departments of Plastic Surgery, Oral and Maxillofacial Surgery and Orthodontics.

- Interdisciplinary exchange of academic programmes is a regular feature in all health science courses. Examples: regular clinicopathological meets, scientific conventions, interdepartmental scientific conferences and integrated care and treatment modalities are regular features of the University.
- Regular conduct of multi / inter disciplinary lectures.
- Regular conduct of inter / multi disciplinary case presentations and discussions.

Enhancement:

- The University offers M.Sc. in Clinical Research, Certificate course in Bio-statistics and Ph D programme in various disciplines including inter-disciplinary research.

1.2.8 What programs are offered for practicing health professionals for skills training and career advancement ?**Initiation:**

One of the objectives of University is to constantly display sensitivity and respond to changing educational, social and community demands that has encouraged University to conduct regular training programs.

Sustenance:

- All the constituent units conduct workshops and quality improvement programs for practicing health professionals for upgradation of current skills.
- University Department of Education for Health Professionals conducts regular skill based training programs.
- The workshops also carry credit points which encourage participation.
- The research foundation of the University conducts regular skill training programmes for health professionals.
- The Scientific Society of J. N. Medical College has been conducting CME programmes **uninterruptedly since 38 years** for general practitioners in and around Belagavi.

Enhancement:

- Regular conduct of computer training course for teaching and non-teaching faculty of the University.

- Training for faculty on use of SPSS and other software systems of computer.
- Skill laboratory of teaching hospital conducts regular workshops for all health professionals.
- Paramedical professionals undergo training in intensive skill development, communication and work culture, biomedical waste management, safety measures, personal hygiene, etc.
- The University offers Ph.D. courses to the faculty with concessional fees.

1.3 Curriculum Enrichment

1.3.1 How often is the curriculum of the institution reviewed and upgraded for making it socially relevant and/or skill oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?

Initiation:

The curriculum of all programs from inception of University has included planned addresses, pedagogy, instructions and delivery methods for guiding student learning.

Sustenance:

- The curriculum for all the programs undergo revision and upgradation once in three years though, the regulatory councils do not recommend so.
- This helps the programs to meet the emerging trends
- Feedbacks are obtained and analyzed regarding curriculum revision and upgradation by students and alumni.
- The interaction of faculty with other universities at national and international level has helped in capacity building of faculty and enrichment of curriculum.

Enhancement:

- The recent syllabus revision has been in the current year with addition of newer topics and deletion of obsolete ones.

1.3.2 During the last four years, how many new programs were introduced at the UG and PG levels? Give details.

The institutional goals are translated through newer academic programs, research and extension activities through its academic offerings.

Programs in emerging areas – During the past four years, 72 academic programmes in the emerging areas have been added in the disciplines of Medicine, Dentistry, Pharmacy, Nursing, Ayurveda and Physiotherapy.

List of new programs from 2010 onwards

Programs	No. of Programs	Name of the Programs
UG	05	1. BAMS 2. B.Pharm 3. B.Sc.(Nursing) 4. PB B.Sc. Nursing 5. BPT
PG	31	Ayurveda – MD/MS 1. Rasashastra & Bhaishajyakalpana 2. Dravyaguna 3. Kayachikista 4. Shalyatantra 5. Kaumarabhritya 6. Panchakarma 7. Agadatantra 8. Sanjnaharana Nursing –M.Sc. 9. Medical Surgical Nursing 10. OBG Nursing 11. Paediatrics Nursing 12. Community Health Nursing 13. Psychiatry Nursing

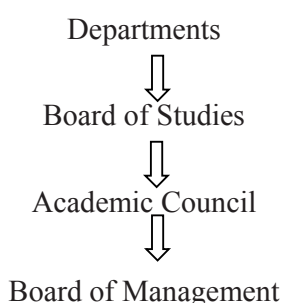
Programs	No. of Programs	Name of the Programs
		Physiotherapy – MPT 14. Orthopaedic Manual Therapy 15. Paediatric Physiotherapy 16. Orthopaedics Physiotherapy 17. Neurology Physiotherapy 18. Community based Physiotherapy 19. Cardio Respiratory Physiotherapy 20. Sports Physiotherapy 21. Physiotherapy in OBG 22. Geriatric Physiotherapy Pharmacy – M.Pharm 23. Pharmaceutical Chemistry 24. Pharmaceutics 25. Pharmacognosy 26. Pharmacology 27. Pharmacy Practice 28. Pharmaceutical Biotechnology 29. Quality Assurance 30. Pharmacy Technology 31. Pham. D.
Super Speciality	03	D.M /M.Ch 1. M.Ch. (Neuro Surgery) 2. M.Ch. (Paediatric Surgery) 3. D.M. (Cardiac Anaesthesia)
Ph.D	05	1. Faculty of Pharmacy 2. Faculty of Ayurveda 3. Faculty of Physiotherapy 4. Faculty of Nursing 5. Faculty of Inter-disciplinary
Fellowship courses	02	1. Sports Medicine 2. Joint Replacement

Programs	No. of Programs	Name of the Programs
Certificate Courses	18	<p>Medical</p> <ol style="list-style-type: none"> 1. Biostatistics 2. Psychological Counseling 3. Plaster Techniques in Orthopaedics 4. Paediatric Dermatology 5. Clinical Pathology 6. Health Museum Technology <p>Nursing</p> <ol style="list-style-type: none"> 1. Intensive Care Nursing (Nursing) 2. Geriatric Nursing <p>Dental</p> <ol style="list-style-type: none"> 1. Finishing School in Dentistry 2. Fundamentals of Epidemiology & Bio-Statistics in Dental Research <p>Ayurveda</p> <ol style="list-style-type: none"> 1. Panchakarma 2. Ayurveda Dietetics 3. Ksharasutra 4. Vajikarana 5. Ayurtech 6. Ayurgenomics 7. Reverse Pharmacology 8. Ayur Cardiology
Any other	1	1. Diploma in Value Education and Spirituality
Total	72	

The University has introduced multi / inter-disciplinary Ph.D., M.Sc. in Clinical Research, Master of Public Health (MPH), Diploma course in Value Education and Spirituality, certificate courses in Sugam Sangeet, Vocal Hindustani and Inter-disciplinary allied courses.

1.3.3 What are the strategies adopted for the revision of the existing programs? What percentage of courses underwent a syllabus revision?

- The revision of the syllabus is undertaken once in three years keeping in view the guidelines of the regulatory bodies, wherever applicable. The feedbacks obtained from students, alumni, industries, peers and subject experts are utilized to improvise on existing programs and curriculum.
- The need based-changes are made as suggested by-



Approximately 40% of courses have undergone syllabus revision in last four years.

1.3.4 What are the value-added courses offered by the institution and how does the institution ensure that all students have access to them?

Apart from offering career oriented programs, the University has successfully introduced following value added courses. Comprehensive feedback mechanism involving views of the stakeholders has helped the University in bringing out following contemporary value added courses.

- Diploma in Value Education and Spirituality.
- Certificate courses in Finishing School of Dentistry, Biostatistics and Research Methodology, Panchakarma, Dietetics of Ayurveda, (Ayurdietics) and Ksharasutra.
- Fellowship Programs : Sports Medicine and Joint Replacement

These courses are widely publicized as some are modular programmes. The students can enroll for certificate and diploma courses during internship. The classes for these courses are mostly scheduled after routine working hours in order to facilitate better enrollment of students.

1.3.5 Has the institution introduced skills development programs in consonance with the national health programs?

Yes

Most of the academic programs offered by the University have in-built multi skill development potential that enables the students to take up the challenges and effectively deal with the national health programs.

The curriculum of all programs encourages grass root level research community based on national health programmes.

NSS and YRC Programmes of the University and constituent colleges are in line with the national health programmes like National Cancer Control, National Health Programmes for children for Communicable and Non Communicable diseases, National Diabetes Control Programme etc.

The community oriented research carried out by Women and Child Health unit of the University Research Foundation has acted as precursor for skill enhancement amongst students and community health workers. It has also lead to addition of research outcome in the medical curriculum.

1.3.6 How does the institution incorporate the aspects of overall personality development addressing physical, mental, emotional and spiritual well being of the student?

Holistic development of student is one of the major objectives. This University ensured this through effective implementation of the curriculum. Ethical and moral issues are integral part of health programmes offered. The component of alternative medicine is appropriately covered in course content of various courses.

Yoga training, guest lectures by spiritual gurus, introduction of Diploma in Value Education and Spirituality enhance quality of education imparted. University has established School of Music which has initiated number of value-added courses for the benefit of students and staff alike.

Excellent infrastructure facilities like International standard size swimming pool, indoor and outdoor stadium, gymnasium in the hostel are provided. The services of Physical trainers are available to the students.

Student Counselor of the University helps the students to deal with their emotional and psychological issues.

The places of worship in the campus provide serene environment.

1.3.7 Does the curriculum provide for adequate emphasis on patient safety, confidentiality, rights and education?**Yes**

Initiation: The curricula of all programmes have enough emphasis on patient's safety, confidentiality, rights and education. Institutions have well framed policy for patient rights.

Sustenance: The programs are oriented towards patient's safety which is ensured by the experimental learning through practical experience, observations and hands-on training in laboratories and hospitals under supervision of experienced faculty.

- SOP for treatment procedures are strictly adhered to
- Post-graduate and super specialty students perform minor operations independently and major operations under the supervision of the senior doctors.
- All the research projects undergo ethical clearance before its commencement.
- Informed consent is obtained before any procedure.

Enhancement: All students and research scholars undergo training in research methodology wherein they are taught about patients rights.

The patient is explained entire treatment procedure in his / her language. Consent is obtained from the patients / attendants before issuing any questionnaire or initiating diagnostic procedure or intervention.

- The patient can quit from any study / treatment at any point.
- Confidentiality is maintained in research publications without revealing identity of patients.

1.3.8 Does the curriculum cover additional value systems?**Yes**

The strong heritage of human values in India encompassing sense of compassion; empathy and consideration are integral part of curriculum of all programs.

The university conducts regular workshops and lectures by spiritual leaders. The vibrant NSS and YRC units of the University and its constituent units conduct special community based camps that train the students towards their ethical and moral responsibilities.

The quality enhancement is attained through introduction of Diploma in Value Education and Spirituality and teaching of Indian Constitution, Environmental Sciences and communication skills at undergraduate level.

The 150th birth anniversary of Swami Vivekananda was celebrated throughout the year 2013, by organizing many value added events like exhibition, competition of patriotic songs, Jago Bharat, etc.

The University has adopted Swachh Bharat Abhiyan from 2nd October 2014 and has allotted 2 hours per week for maintenance of cleanliness in and around the campus.

1.4 Feedback System

1.4.1 Does the institution have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of ?

Yes

Initiation:

Printed well designed, validated feedback formats for students and alumni are available in all constituent units.

Sustenance:

- Analyses of feedbacks are carried out manually and by computer aided software in all constituent units.
- Workshops on feedback assessment and analysis are conducted regularly.
- The analyses of feedbacks are taken into consideration and implemented, if found appropriate, before any curriculum revisions.
- Suggestion boxes are available in all constituent units and library.

Enhancement:

- The feedbacks obtained from students have been utilized to bring about the contemporary change in the development of curriculum. Need based changes are made based on knowledge and the perceived needs of patients and society.

1.4.2 Does the institution elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and their impact.

Yes

The infrastructure facility of the campus has always facilitated real time communication with national and international faculty and has enriched the interactivity in an on-line learning environment.

- University conducts workshops periodically through UDEHP for the revision of curriculum of all the programs offered.
- The resource persons for these workshops are of national and international repute.
- Feedback on curriculum is collected through interactions with eminent academicians during the practical examinations / seminars / conferences / workshops conducted at different levels.
- The subject experts of national repute are invited during the Board of Studies and Academic Council meetings who provide feedback on curriculum.
- Based on the feedback reports, revisions are made in the curriculum by the Academic Council of the University.
- The digital library facilitates delivery of online conceptual knowledge.
- Feedbacks collected through webinars and online discussions with faculties of well-known institutions have helped to develop curriculum of global standard and promote placement of students.
- It has also helped to introspect into the existing curriculum and undertake necessary revision.

1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum and the extent to which it is made use of.

Not applicable

KLE Academy of Higher Education and Research is established Under Section 3 of UGC Act 1956.

1.4.4 Based on feedback, what are the quality sustenance and quality enhancement measures undertaken by the institution in ensuring the effective development of the curricula?

All constituent units have Internal Quality Assurance Cells (IQAC). Quality sustenance and enhancement is a continuous activity performed for the effective development of curricula, which is monitored by the IQAC of the institutes and reflected in the Annual Quality Assurance Report (AQAR) submitted by the University.

The constituent units obtain feedback on curriculum from students, alumni, peers, employers, parents, industry, and stakeholders in the community

All the obtained feedbacks are analyzed at institutional level, discussed at college council meetings and the suggestions are forwarded to the University for further discussions in Board of Studies and Academic Council for acceptance and implementation.

The SOPs have been formulated for every practical / clinical procedure with specific guidelines. It has helped the learners to develop critical consciousness.

1.4.5 What mechanisms are adopted by the management of the institution to obtain adequate information and feedback from faculty, students, patients, parents, industry, hospitals, general public, employers, alumni and interns, etc. and review the activities of the institution?

The Alumni Associations and Parent-Teacher Associations (PTA) of constituent units are **Registered Bodies**.

The University since its inception in 2006 has been obtaining feedbacks from various stakeholders and analyzing them for improving the facilities.

The feedback is obtained from faculty, students, parents, industry, hospitals, general public, employers, alumni and interns.

(i) Students

- At the end of every academic year, feedback is obtained from students through validated format on the academic offerings which forms a vital input for design and redesign of the curriculum.
- The suggestions made by the Students Council are also a valid source of feedback.

- The analyses of feedback obtained from the students regarding every teacher are communicated to the teacher concerned for his/her future improvement.
- Students also give the feedback on the infrastructural facilities, hostels, library and other learning resources. Analysis of this feedback is used for the betterment of facilities.

(ii) Parent

All constituent units have registered **Parent-Teacher Associations (PTA)**. The meetings of PTA are conducted regularly and feedbacks are obtained from the parents regarding the hostel facilities, academic performance, infrastructural facilities and other learning resources.

(iii) Alumni

All constituent units have registered Alumni Associations. The constituent units and the University organize Alumni meet, during which suggestions / recommendations on the various issues are obtained. These are addressed at various levels.

(iv) Academic Peers & others

The University provides for the constitution of the Boards of Students, Academic Council, Advisory Committee, Planning and Monitoring Board, Finance Committee, Board of Management, etc. The composition of these Authorities and Bodies of the University provides for the representation of the academic peers and includes representatives of the industry, research institutions and professional organizations.

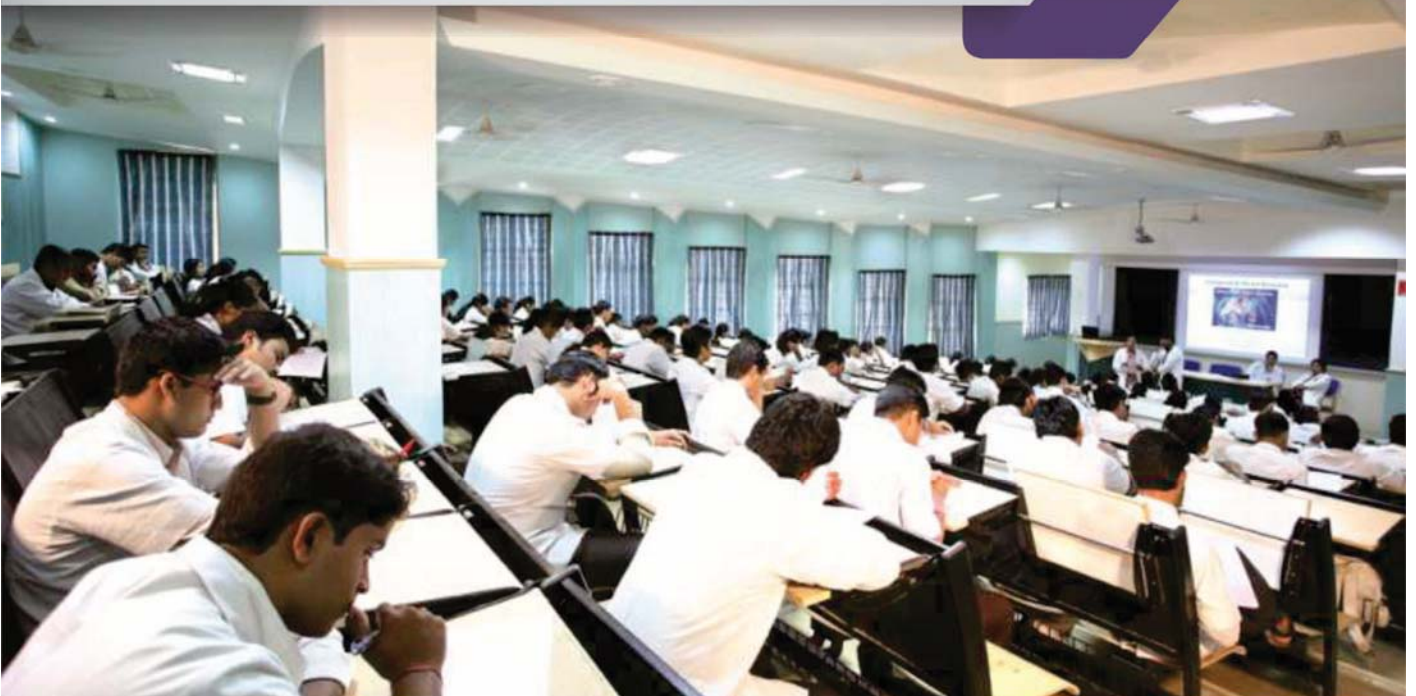
Any other information regarding Curricular Aspects which the institution would like to include.

- The nine-stage curriculum development pattern adopted by the University has helped it to make the curriculum relevant and contemporary.
- The curricula for all programs focus on Vision-Mission, Goals and Objectives of the University.
- The range of programs available to the learners encompasses undergraduate, postgraduate, post-doctoral degree, super-specialty, post graduate diploma, diploma, certificate, and inter-disciplinary programs.
- The first concern of these programs has been to achieve highest level of effectiveness in readying students for advanced studies and jobs.

- In last four years, University has started 72 new programs apart from the existing ones.
- Regular revision of curriculum of existing programs based on relevance and needs is a distinct feature of the University. The revision has enabled scientific measurement of texts.
- Quality education forms integral part of academic offerings of the University.
- Global trends in higher education are reflected in the curriculum of the programs offered by the University.
- Feedbacks are obtained from various stakeholders in designing and re-designing of curriculum.
- The shift to digital content in education presents unprecedented challenges and opportunities. The Wi-Fi campus facilitates and provides interactivity in an on-line learning environment to the students.
- The digital library has been navigating efficiently the abundant on-line resources, while retaining the deep curricular connection that education needs.

CRITERION II

TEACHING-LEARNING AND EVALUATION



CRITERION II : TEACHING LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the institution ensure publicity and transparency in the admission process?

- Each academic year, the University conducts its own All India Entrance Test (AIET) for all undergraduate, postgraduate diploma, postgraduate degree and super specialty programmes in all disciplines.
- Notification of admission, last date of application for AIET and required fees is advertised in all leading national and state level newspapers. The same is notified and posted on the University website www.kleuniversity.edu.in.
- The University has maintained transparency in admission process from time-to-time for all the courses including MPH and Ph.D courses.
- Transparency is ensured by declaring and displaying the “Rank List” of candidates on the University website.
- The date and time of counseling are also displayed on University website well in advance for the benefit of the applicants.
- All admission to undergraduate, postgraduate diploma, postgraduate degree programme in basic sciences and certificate courses is given on the basis of the marks obtained by the students in the qualifying examinations.
- The details of the programmes, their durations, entry qualification, tuition fee to paid, syllabus for the AIET, dates of examination, date of declaration of AIET result, dates of counseling, last date of admission, etc. are indicated in the prospectus and also posted on the website of the University.
- The details of the conduct of the undergraduate and postgraduate All India Entrance Test are given in Bye-Law 3 of the University.
- Alumni of the constituent units have been our ambassadors in building the image of the University institutions thereby, attracting students to seek admission to the constituent units of the University.

The increase in demand for admissions is reflected by progressive increase in number of applicants from 3000 (in the year 2009-10) to 5788 (in the year 2013-14) across the country which led to increase in number of entrance examination centers from 8 to 17 (Belagavi, Bengaluru, Pune, Mumbai, Ahmedabad, New Delhi, Hyderabad, Vijaywada, Kolkatta, Panjim, Indore, Jaipur, Chandigarh, Coimbatore, Guwahati, Tirupati and Kottayam).

2.1.2 Explain in detail the process of admission put in place by the institution. List the criteria for admission: (e.g.: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test, aptitude and interview, (iv) common entrance test conducted by state agencies and national agencies (v) any other criteria (specify).

- The admission and counseling process has always been transparent and is on the basis of merit.
- The University is offering professional programmes, and admission to the undergraduate, postgraduate diploma, postgraduate degree, super-specialty and doctoral programmes in all the disciplines on the basis of merit of the candidates at AIET conducted by the University and eligibility specified by the University. Admission for super-specialty is on the basis of merit cum interview of the candidates.
- Admissions to undergraduate programme (BAMS) in ayurveda is on the basis of merit in the respective entrance examinations of the Karnataka state (for 70% seats) and KLE-UG-AIET (for 30% seats) respectively. Admissions for PG courses in Ayurveda is on the basis of merit in the respective entrance examinations of the Karnataka state (for 10% seats) and KLE-PG-AIET (for 90% seats) respectively.
- The admission process for Ph.D programmes in all courses is as per UGC norms.
- Policies regarding admissions have not wavered since the inception of the University hence the meritorious students have benefited.

2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.

Not applicable, as there are no affiliated colleges.

2.1.4 Does the institution have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

Yes

Initiation:

- The Competent Authority of the University reviews the admission process every year after the completion of admissions and performs a detailed analysis of the same.

- The University has a mechanism to review its admission process and student profiles annually based on caste (SC/ST/OBC/GM), gender, percentage of marks at entry level, demand-ratio trend, minimum and maximum marks secured by candidates at previous qualifying examination, etc. Analysis is also undertaken for number of students admitted from outside the state and Karnataka and from other countries.
- The scrutiny of student profile is done for identifying the skills of the students and opportunity is provided to them to enrich/sharpen the skills during their course. Their participation in extracurricular events like sports and cultural activities is encouraged.
- For admissions to programmes offered by the College of Ayurveda against government quota seats, the norms of Karnataka Government are followed. The College verifies and reviews the profiles of all students admitted annually.

Sustenance:

- The outcome of analysis has helped to increase the number of centers for conduct of All India Common Entrance Test of the University.
- Based on the feedback analysis of entrance examinations conducted over the years, the University considers increase of seats in courses that are in demand. This in turn, has facilitated recruitment of more faculty and increase of infrastructure. It has enrollment of students from overseas and different states of India.
- Over the years, the demand has increased for admissions in Physiotherapy, MPH and other Allied courses.

Enhancement:

- The University has adopted the digital technology by which wait-listed students are enabled to select the seats of their choice by an online process thus, eliminating the inconvenience of physically attending the second and subsequent rounds of counseling.
- A single window admission system for NRI and foreign students has simplified the admission process.

2.1.5 What are the strategies adopted to increase / improve access for students belonging to the following categories :

- * **SC/ST**
- * **OBC**
- * **Women**
- * **Persons with varied disabilities**
- * **Economically weaker sections**
- * **Outstanding achievers in sports and other extracurricular activities**

The reservation policy of the State Government is applicable wherever funding is provided by the Government of Karnataka.

Initiation:

- Even though reservation of seats for private institutions is not mandatory as per UGC guidelines, about 5% students belonging to SC/ST are seeking admission to the University.
- Belagavi Revenue Division (BRD) quota of 7.5% has been provided since the inception of the University, to encourage students of educationally backward areas of North Karnataka.

Sustenance:

- The Gender Auditing of the University has been carried out which has shown gradual increase in enrollment of women for different programmes.
- The enrollment of women for different courses is more than 50%.
- Scholarships are given to meritorious candidates among SC/ST categories by various government agencies and also by the University.
- There is a provision for lending books to SC, ST and OBC students from the Book Bank in the library. The students can return books at the end of the academic year.
- The University has vibrant '**Empowerment Cell for Women**' that functions independently along with constituent units as well. The main objective of the Cell is to make girl students comfortable and create a safe and secure environment for them. The training classes in self defense are conducted for benefit of girl students. Other activities of Women Cell are: i. Conducting frequent meetings with the girl students, ii. Discussing and addressing grievances related to their stay in the hostels, problems of homesickness, language and lack of concentration, etc.

- There is a Grievance Redressal Cell for prevention of sexual harassment including other grievances of girl students.
- A qualified counselor appointed by the University helps students in resolving their personal and academic problems.
- Full-time warden in the hostel helps girl students to deal with their problems.
- Differently-abled students are provided with infrastructure facilities like wheelchairs and ramps at different places in the campus including hospital.
- Scribe facility for physically challenged students is provided in University examinations.
- There is provision of scholarship for economically weaker sections from different agencies and in last 4 years an amount of Rs. 5,21,750/- has been received by 10 students.

Enhancement:

- Weightage in attendance is given to the students who participate in sports and extracurricular activities during working days and internal assessment tests are specially conducted for them, if required.
- The scholarships are also given by the University to meritorious students among women category.

2.1.6 Number of students admitted in the institution in the last four academic years:

The year-wise enrollment of students of different categories is as follows :

Categories	2010-11		2011-12		2012-13		2013-14		2014-15	
	M	F	M	F	M	F	M	F	M	F
SC	16	16	14	9	19	10	10	17	21	18
ST	04	07	08	04	11	05	04	07	08	12
OBC	73	48	63	43	54	42	79	27	48	82
General	576	511	533	562	447	615	447	559	441	581
Others	11	05	07	06	10	08	10	19	16	18

2.1.7 Has the university conducted any analysis of demand ratio for the various programs of the university departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase/decrease.

Yes

Initiation:

Employing highly qualified staff, excellent infrastructure facility, availability of sufficient clinical material and our potential to grow have always had a positive impact on the demand ratio of various training programmes.

Sustenance:

- The admirable rate of faculty retention for all programs speaks for excellent human resource management of the University which in turn, has taken care of the increased demand ratio for all programs over the years.
- Uniformly distributed work-load, commensurate with the capabilities, has increased productivity of faculty members. The Demand Ratio for different programmes over the years is depicted below:

Demand Ratio

Year	UG	PG	Super Specialty
2010	1:3.6	1: 5.43	1:3
2011	1:5.3	1:10	1:2.8
2012	1:9	1:12	1:2
2013	1.8.3	1:10	1:2
2014	1:7.2	1:11.8	1:2.3

- There is significant increase in the demand for admissions to the academic programmes offered by the University. The highest number of students who appeared for All India Entrance Test in 2013-14 is 5788 as against 3000 in 2009-10. This is mainly because of:
 - a) Accredited ‘A’ Grade by NAAC.
 - b) Placement of the University in **Category ‘A’** by **Ministry of Human Resource Development, Government of India.**
 - c) Accreditation of B. Pharm courses in all Pharmacy colleges by **NBA.**
 - d) **NABL** accredited status of the hospital laboratory.
 - e) National and International recognition of the constituent Units.
 - f) Well-placed alumni globally.

The Colleges of Medical, Dental and Ayurveda are considered amongst top most institutions in the country. Increased seats in Physiotherapy, MPH and Nursing courses could be due increase in awareness and publicity through electronic and mass media. This is also due to good infrastructure, excellent teaching hospital with adequate clinical resource, well qualified faculty and well-structured curriculum which is commensurate with global standards.

Enhancement:

- The increase in number of seats in the last 4 years for B.Sc. Nursing, BPT, MPH and other allied courses is due to demand for the courses and greater employability of graduates in India and abroad.
- Excellent infrastructure facilities along with clinical and research resources available have attracted students for all the courses to a great extent.
- Forty two new and contemporary programmes have been started in the last 4 years.

2.1.8 Were any programs discontinued/staggered by the institution in the last four years ? If yes, specify the reasons.

Yes.

P.G. Diploma in Cyber Law is discontinued. With establishment of the State University of Law, there were some operational problems in continuation of this course.

2.2 Catering to Student Diversity

2.2.1 Does the institution organize orientation / induction program for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.

Yes

The University since its establishment, has been conducting orientation / induction programs for fresh students every year at the beginning of the academic session. The senior faculty, administrators and Student Counselors are involved in conduct of these programmes. The induction programs for fresh undergraduate students along with their parents are conducted in each constituent unit for a period of 1-3 days and following information is provided to them.

- Academic requirements of different courses
- Disciplinary behaviour expected from students.
- Students' Code of Conduct is practiced
- Mentorship program of the University
- Examination patterns for different courses
- Library facilities available
- Hostel facilities and its regulations
- Facilities for extracurricular activities
- Student support services available
- Health insurance scheme of the University
- Student Council activities
- Placement Cell and its activities
- Anti-ragging codes in the campus
- Availability of student counselor
- Availability of other academic programmes in the University
- Amenities like, gymnasium, canteen, rest rooms, health centers, sports facilities, etc.

The induction programs for fresh postgraduate students are conducted for one week every year. In addition to the information provided to UG students, the PG students are also briefed on the following:

- Research methodology
 - Application of Biostatistics
 - Synopsis and dissertation writing
 - Critiquing an article
 - Ethics and literature search
 - Patient care services
 - Evidence Based Practices, GLP/GCP
- The students from outside the state are trained to communicate with the patients in the local language.
 - The feedback obtained on conduct of induction programmes is critically analyzed every year, discussed in the College Council meeting and, a strategic approach is devised for improvement of the system in subsequent years. If necessary, resource persons are advised to be more focused in their narrations. This, in turn, facilitates quality enhancement in orientation classes.

2.2.2 Does the institution have a mechanism through which the “differential requirements of the student population” are analyzed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?

Yes

The differential requirements of the student population are analyzed after admission and before commencement of the classes. The following key issues are identified and addressed :

- The students who are not familiar with the local language are identified.
- The language classes in Kannada are conducted for students from outside the state and other countries.
- Specially designed dental chairs are provided to the students with left hand dominance.
- The book-bank facility of the library is extended to the students of reserved category.
- It is observed that the students from other states and country have been able to communicate better with the patients, after going through the orientation programme in local language.

2.2.3 How does the institution identify and respond to the learning needs of advanced and slow learners ?

Initiation:

- The University initiated the process of identifying and responding to the learning needs of students and categorizing them into slow and advanced learners, in order to bridge the gap between their existing skills, knowledge and competencies.
- Appropriate delivery plan like class-based, online or a mix of these and other formats are initiated considering the time frame (once / continuous).

Sustenance:

- The slow and advanced learners are identified in individual department on the basis of their level of knowledge, skill and behavior, using criteria like internal assessment and performance during clinical postings.

- The mentors inform the college office about student's performance which in turn, is conveyed to the parents.
- The faculty responds to the learning needs of slow learners by conducting special classes, extra practicals and by monitoring, their academic performance through weekly tutorials and home assignments.
- Advanced learners are groomed for academic excellence by involving them in seminars, participation in group discussions, undertaking small projects, publishing research papers and making scientific presentations.
- The students are upgraded to higher level of clinical work, both independently and under supervision. They are permitted to observe and assist complicated procedures.

Enhancement:

- Validated structured questionnaires to identify slow and advanced learners are used in all the constituent units.
- Some of the constituent units evaluate students continuously through the system of “**Blue Book**”. This evaluation is conducted on completion of a topic in the syllabus to gauge the understanding of the student on particular topic.
- For slow learners, personal counseling by concerned faculty and mentors is arranged. They are also made to attend remedial classes
- The advanced learners on the other hand are: directed to refer additional books and journals. They are motivated to appear and excel in competitive exams like GPAT, IELTS, GRE, TOFEL, IAS, KAS, etc.

2.2.4 Does the institution offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise ?

Yes

Initiation:

- Keeping pace with the demand for career-oriented courses at undergraduate and postgraduate level, various add-on courses are provided to the students in addition to regular courses.

- These courses have been designed in a flexible manner, as they run parallel to the conventional methods, so as to improvise the clinical skills training of the students.
- The constituent units have been taking appropriate measures to identify slow learners. They initiate necessary steps to resolve the competency gap existing amongst the students.
- The Institute of Ayurveda has been offering bridge courses in Anatomy and Geological Identification of Minerals.

Sustenance:

- The University provides bridge course in Biostatistics for postgraduates and Ph.D scholars.
- The remedial coaching is carried out with well-intimated time table for the benefit of slow learners in the concerned subjects of all programs.
- Certificate courses in medical, dentistry, ayurveda, nursing and music are offered by the University.
- Following add-on courses are available to students:

Certificate Courses :**i. Medicine**

- Minimal Access Surgery
- Small Incision Cataract Surgery
- Biostatistics
- Psychological Counseling
- Plaster Techniques in Orthopaedics
- Paediatric Dermatology
- Clinical Pathology
- Health Museum Technology

ii. Dentistry

- Excellence in Esthetic
- Oral and Maxillofacial Implantology
- Perioesthetic and Periodontal Plastic Surgery
- Finishing School in Dentistry
- Fundamentals of Epidemiology and Biostatistics in Dental Research

iii. Ayurveda

- Panchakarma
- Dietics
- Ksharasutra
- Vajikarana
- Ayurtech
- Ayurgenomics
- Reverse Pharmacology
- Ayur Cardiology

iv. Nursing

- Intensive care nursing
- Geriatric Nursing

v. Any other

- Certificate Course in Hindustani
- Certificate Course in Sugam Sangeet
- Diploma in Music(Vocal Hindustani)
- Diploma in Value Education and Spirituality

Enhancement:

Diploma in Value Education and Spirituality, Certificate course in Biostatistics are new additions to the add-on courses.

2.2.5 Has the institution conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, differently-abled, etc.? If yes, what are the main findings?

Yes

Initiation:

The initiation of monitoring academic growth of students started with student mentorship program where each faculty closely monitored the academic performance of small group of students. This procedure has evolved into a more organized system.

Sustenance:

- The Committee constituted by the Vice-Chancellor analyses the performance of disadvantaged sections, economically disadvantaged and differently-abled students once in a year.
- Meritorious SC/ST students receive scholarships.
- Book bank facility for SC/ST students is provided.
- Fee concession and reservation for disadvantaged sections of the students in medical and ayurveda colleges (SC/ST, sports, rural, physically disabled students).

The main findings of the analysis are as below:

- The total enrollment of students from disadvantaged sections of society, economically disadvantaged and differently-abled in UG and PG classes is 756.
- Study conducted by the University on academic growth of economically disadvantaged students showed an increase in passing percentage from 52.29% in first year to 90% in final year for undergraduate students. For postgraduate students, the study showed 85% performance in examination for all the constituent units.
- Among 25 students who participated in various placement activities organized by the constituent units belonging to disadvantaged sections of society, economically disadvantaged and differently-abled from colleges of pharmacy, ayurveda and nursing, 92% have been successfully placed.
- 103 students belonging to disadvantaged sections of society, economically disadvantaged, differently-abled, etc. were identified as slow learners. Remedial classes were conducted for them and their performance improved significantly in the subsequent examination.

Enhancement:

- “Earn while you learn” scheme is introduced for economically disadvantaged students.
- The measure of students advancing from one performance level to the next has been positive for these students.

2.2.6 Is there a provision to teach the local language to students from other states/countries?

Yes

The students from outside states and countries are taught Kannada language through “**Kannada Balaga**” as the ability to communicate in local language is truly an advantage while working with associates and taking care of everyday errands during clinical assignment and work.

These students also appear for institutional level examination in Kannada language. A small booklet on “**Kannada as a Communication Skill**” is also printed and distributed free to these students, which facilitates to communicate with the local people and patients.

A remedial coaching in English language is also offered to foreign students from Malaysia and Africa and rural students, whenever required.

2.2.7 What are the institution's efforts to teach the students moral and ethical values and their citizenship roles ?**Initiation:**

- One of the objectives of University is to provide high quality educational experience to the students in diverse learning environment by values in institutions of democracy.

Sustenance:

- Value education, professional ethics and morals form an integral part of the curriculum of all the academic programmes.
- Constitution of India is a subject taught to all the students to add to their citizenship role.
- The NSS units, Youth Red Cross society and Indian Pharmaceutical Association Student Forum organizes several special camps, street plays, rallies and other programmes of social importance in which the students inculcate sense of service and learn about citizenship roles.
- The days of national importance are celebrated to build values, civic responsibilities and sense of national integrity and pride.
 - Special lectures organized on Gandhi Jayanti and other national festivals emphasize the component of national integration.
 - Special discourses by the religious heads are organized for the students.

- Several programmes inculcating moral and ethical values were organized during 150th birth anniversary of Swami Vivekananda.
- Programmes like **Jagobharat**, disaster management, **art of living** and **yoga** are conducted to teach the students moral values and their citizenship roles.
- **Kannada Balaga** of University organizes various programmes.
- University organizes fests for students, called ‘**Trinity**’.
- Students enjoy participation in Ganesh Festival, Holi, Onam, Eid and Christmas in the campus.

Enhancement:

- Diploma Course on “Value Education and Spirituality” has been started by the University.
- Students visit old age homes, orphanages, schools for special children and celebrate festivals with them.
- University conducts debates on topics based on values, morals and ethical issues.
- The institute of Physiotherapy has started a unique program called “**Right Life and Life’s Right**” to inculcate moral and ethical values among students. This program encourages a group of students to present seminar on rotation basis, once in every week, on the subjects of national, religious, professional, research, ethics and moral values.
- National Education Day and National Integration Day are observed as per the UGC norms.

2.2.8 Describe details of orientation/ foundation courses which sensitize students to national integration, Constitution of India, art and culture, empathy, women's empowerment, etc.**Initiation:**

- One of the objectives set by the University at the time of its inception is to incorporate themes to build values, civic responsibilities and sense of national integrity, which is effectively being implemented at all levels.
- Constitution of India is an integral component of curriculum.

Sustenance:

The students are sensitized to national integration, Constitution of India, art and culture, empathy, women's empowerment through the following activities:

National Integration

- The students are sensitized by observing and celebrating Independence day, Republic day, Teachers day, International Non-Violence day, Children's day, Karnataka Rajyotsava and National Integration day.
- Special talks are arranged by experts on occasions of national festivals.

Art and Culture

- University School of Music introduces students to musical cultural heritage of India, and interested students can continue their education and pursue their interest.
- Annual cultural fest, Talent's day and fun week are observed to promote art and culture.
- Students participate in inter-collegiate sports (**HUMBO**), art and cultural competitions(**TRINITY**).
- Annual sports meet is organized to promote team spirit and physical fitness.

Empathy

- Annual retreat and value education classes are regularly conducted.
- Diploma Course in Value Education and Spirituality is offered.

Women's empowerment

- The University has vibrant “**University Cell for Women**” which conducts regular courses for girl students and lady staff members on various issues like, womanhood, threat to girl babies, nutritional values in our regular diet, child care, child marriages, etc.
- The Cell tries to create an environment free from harassment, for women and girl students.
- Student's 'Guidance and Counseling Cell' and 'Cell for prevention of Sexual Harassment' are constituted involving female faculty from all constituent units.

- Female student representatives from constituent units are included in the Student Council, IQAC and other committees including mandatory post of Co-General Secretary.
- Sports and cultural activities are regularly arranged for women.
- International Women's day is celebrated in Collaboration with **Swashakti** of the KLE Society.

Enhancement:

The University also organizes following activities of social responsibilities through its vibrant NSS units of the University and its constituent units.

- Water conservation
- Power conservation
- Go-green campaign
- Plastic free zone initiative
- Observing Vanamahotsava
- Blood donation camps
- National Pharmacy Week Celebration
- Drug safety
- World Environment Day
- World Health Day
- Vehicle-free campus
- Swachha Bharat Abhiyan

2.2.9 Has the institution incorporated the principles of Life Style Modifications for students based on Eastern approaches in their day to day activities ?

Yes

Initiation:

- The faculty and mentors are emphasizing the need of life style modifications for students. The University has provided excellent facilities for indoor and outdoor games, gymnasium, presence of physical instructor, yoga classes, etc.
- Mentors also take narrative review of student's activities.

Sustenance:

- Topics related to life style modification in relation to nutrition and diseases are covered in the curriculum.

- The students are counseled by faculty and mentors on day-to-day basis so as to incorporate the principles of Life Style Modifications for students based on eastern approaches in their day to day activities.
- The students are sensitized to the issues of Substance Abuse like tobacco, alcohol and drugs through various programs and activities.

Enhancement:

- Yoga training classes are regularly conducted for students and faculty.
- Diploma course in ‘Value Education and Spirituality’ has been successfully introduced.
- Ayurvedic food festival is organized every year to sensitize the students on healthy food habits.
- During the ‘World Heart Day’ celebration, oath is administered to students and public to quit alcohol and smoking, and inculcate habit of regular exercises and healthy food intake.

2.2.10 Has Yoga/Meditation/any other such techniques been practiced by students regularly as self-discipline ?

Yes

Initiation:

- University has been trying to maintain India’s oldest religious philosophies that have remained, unbroken and progressive. The students have inculcated these values along with their ability to adapt to changing times.

Sustenance:

- Yoga / meditation classes are conducted regularly in the morning hours in hospital premises.
- Yoga workshops are conducted regularly in the University premises.
- Yoga forms a part of curriculum of Ayurveda, Physiotherapy and Nursing courses.
- Conduct of lectures and workshops on yoga, meditation and art of living by spiritual gurus is a regular feature in the University.
- Places of worship in the campus provide ambience and appropriate tranquility.

Enhancement:

- On 3rd Friday of every month the teaching hospital conducts a unique program for patients and their attendants called '**Ragas for Rogas**' and '**Melody versus Malady**'. This program is arranged on the ground floor of the hospital by the students and staff members of the School of Music of the University.

2.2.11 How does the institution attend to the diverse health issues (physical and mental) of students and staff?

- Preventive, promotive, curative and rehabilitative health care is disseminated to all students and staff of the University through various health care facilities.
- Physical and mental issues of the staff and students are attended to by encouraging them to practice general fitness exercises, yoga and meditation at fitness centers.
- Emerging Health Issues (physical and mental) of recent years, the probable causes for diseases, various treatment modalities available, and modes of prevention are addressed through series of lectures and workshops to both students and staff.
- The teaching hospital in the campus caters to the health needs of students and faculty.
- University Student Counselor offers advise to students to overcome psychological problems. After preliminary screening, the students are guided for appropriate treatment.
- Consultation, investigations and IPD facility are made available through **Vaidyashree KLE Health Care Insurance** for staff members and students.
- Maternity leave is available for staff and students.
- Common room facility is provided for girl students to take rest during working hours, if needed.
- Transport facility during medical emergencies is provided free of charge.
- Primary medical care facility is provided in the hostels.
- The hostels provide hygienic food and water.
- International standard swimming pool with coaching facility is made available.
- Spacious indoor and outdoor stadia are provided for sports and games.
- Multi-stage gymnasium is available to the students
- The services of physical instructor, Student counselor and yoga teacher are available to all free of charge.

2.2.12 Does the institution cater to the needs of groups / individuals requiring special attention by conducting group classes / special individual trainings / focused group discussion / additional training measures etc.?

Yes

Initiation:

- Institutions identify learning styles of students and caters to individual or group needs by conducting classes through focused group discussions, tutorials, class level debates, pedagogy, projects, assignments and skill / technique demonstrations.

Sustenance:

- Identification of slow and advanced learners is a regular feature in all constituent units.
- Slow learners who require specialized and individual attention are dealt separately through remedial classes.
- Advanced learners are trained to take up research projects, make scientific presentations and manuscript writing.
- In some constituent units, every week one hour per subject is allotted for tutorials. In this stipulated time, remedial classes, soft skill development, personality development, Problem Based Learning (PBL), focused group discussion and GPAT classes are conducted.

Enhancement:

- Clinical skills laboratories, different teaching models, training on mannequins aids in enhanced quality of, knowledge dissemination.

2.3 Teaching-Learning Process

2.3.1 How does the institution plan and organize the teaching-learning and evaluation schedules such as
* **academic calendar**

Initiation:

- Since its inception in 2006, the University is regularly providing the Annual Calendar of Events (ALMANAC) covering commencement of academic session, meetings of statutory bodies and their schedule, dates of curricular and co-curricular activities, examination schedules, preparatory leave, vacations, activities of NSS wing, etc. This Calendar of Event is made available to all the stakeholders before commencement of calendar year.

- This has been a living document of the University that has evolved continuously. It gives academic directions and provides set of strategies for accomplishing the academic mission of the University.
- Similarly, the Academic Calendar of events is printed for each course and for each batch of students (as per guidelines of regulatory bodies) which gives all the details regarding beginning of the classes, internal assessment tests, submission of synopsis and dissertation (for PGs), university examinations and vacation.
- Rotation plan is mandatory in health science institution, which exposes the students to various health needs of the community and helps in overall development of students.
- The course plan for all academic programs is in accordance with regulations of regulatory bodies, and the University adheres to these.
- The unit plan that includes daily lectures, practicals and mapping processes has enhanced long-term teaching-learning goals and objectives.
- The blue-print of the University Calendar of Events includes the evaluation schedule, as well as, scheme, allotment of marks, instructions and specifications.
- The aim of out-patient teaching is an effective teaching-learning model within the framework of clinical service delivery.
- Teaching in hospital-based ambulatory settings, covers ways to minimize the difficulties encountered.
- The University has well-organized teaching sites in rural areas, that has provided students with an opportunity to see a wide range of disorders in people, with varied social, economical and cultural backgrounds.
- Though community-oriented teaching has gained importance in latest curriculum of health education, the University since its inception has been emphasizing on it through its public-private partnership, health camps and awareness programs.

Sustenance:

- Each constituent college has a Committee which plans academic calendar well in advance. The same is incorporated into the Calendar of Events of the University at the beginning of academic year / semester. This is made available to staff and students.
- All the departments strictly adhere to the academic calendar prepared by the Institution and the University.
- Every Department of the constituent unit prepares the teaching-learning timetable for UGs and PGs at the beginning of the term.

- The Committee constituted for the purpose frames guidelines, that are considered for preparation of master plan.
- The approved master plan includes subject distribution to faculty, number of teaching / practical / clinical hours, question paper setting and evaluation schedules, teaching and clinical time-tables, internship rotation plan, etc.
- Curriculum Co-ordinators for undergraduate and postgraduate studies alongwith academic in-charge plan teaching schedule for students. The plan also includes seminars, journals clubs, case presentations, micro-teaching, technique demonstrations, etc.
- The lesson planning for the year is structured in detail by individual department displaying sequence of lectures and identification of faculty addressing the topics in clinics, discussion and demonstration.
- Evaluation is done on the basis of grading sheets and internal assessment allotted in theory and end-posting examinations.
- Programs run by the University follow compulsory rotational plan for undergraduates, postgraduates and interns for pre-, para- and clinical subjects, which is based on the guidelines of regulatory bodies, and as mentioned in syllabus.
- Rotation is also planned for peripheral centers and other academic institutions.
- There are program incharges for various courses in all institutes.
- The course plan for undergraduates and postgraduates includes number of teaching, clinical, laboratory and practical hours, their distribution over the term and course objectives.
- The postgraduate course plan also includes information regarding number of seminars / journal clubs / case presentations / dissertation / research paper publications and participation in conferences and workshops.
- Heads of the Departments along with other faculty members in the concerned department discuss on the allotment of the time for theory, practicals, tutorials, clinical postings and internal examinations.
- Evaluation is formative and summative. In the formative evaluation, innovative evaluation systems are being tested.
- Feedback of the outcomes of the formative evaluation is provided through marks system, as they have three evaluations before the summative evaluation and, this helps to improve their performance in subsequent formative evaluation and outcome at the summative evaluation.

- Continuous Internal Assessment carries 20% weightage.
- Three parallel and independent question paper sets are provided.
- Double valuation system is adopted at the University examination.
- Practical and viva examinations are conducted by two examiners (one internal and one external).
- Photocopy of answer paper is provided whenever demanded.
- The work of Examination Branch is computerized. This facilitates declaration of results within 15 working days from the last date of examination.
- Multiple Choice Questions in University examinations have up to 20% to 25% weightage.
- The students are posted in small groups to the outpatient departments on rotation basis during which faculty conducts case discussions that includes case evaluation and demonstration of treatment techniques.
- Outpatient teaching plan is prepared by Head of the Department and outpatient Department In-charge staff. OPD schedules for the postgraduates and interns on rotation are planned by departments.
- The concerned staff plans type of cases to be taught to students and type of cases to be handled by the students under supervision of the faculty and independently.
- Teaching aids such as posters, videos and models enable effective outpatient teaching.
- Inpatient teaching forms an integral part of clinical training for undergraduates and postgraduates.
- The Head of the Department plans the inpatient teaching schedule and individual teacher plans the type of case and treatment procedure to be discussed and demonstrated to the students on day-to-day basis.
- Bed-side teaching, ward rounds and grand rounds are practiced as methods of inpatient teaching. It also includes postings in minor and major operation theatres and diagnostic laboratories.
- Bed strength is far greater than that specified by the regulatory bodies, which gives enough opportunities for inpatient teaching.
- Depending on type and severity of diseases, cases are allotted to undergraduate, intern and postgraduate students.
- Undergraduates are given opportunity to assess and manage simple cases and observe or assist moderate to complicated cases. Interns and postgraduates are allowed to handle patients independently and assist faculty during complex procedures.

- The University has adopted 3 Urban Health Centers and 3 Primary Health Centers under **public-private partnership** where students are posted on rotation basis.
- Students are posted to special schools, old age homes, rehabilitation center, gymkhanas, etc. wherein clinical teaching is carried out.
- Students are also posted to satellite centers where students learn to handle patients independently with minimal resources.
- The Departments of Community Medicine, Public Health Dentistry, Community Nursing, Community Physiotherapy and Public Health from all institutes alongwith the NSS units of University plan various community-based programs throughout the year.
- Many villages, old age homes and schools have been adopted to provide health benefits.
- Treatment is rendered free of cost or at nominal charges during the community camps.

Enhancement:

- All the events/activities/meetings are conducted as per the almanac. Only in rare cases, there is preponement of the event.
- The results of University examinations are announced within fifteen working days of the last date of the examination.
- Over the last few years, the University has established itself as a recognized center for quality health science education, with unending commitment to precision in time management.
- The teaching plan serves as a roadmap for journey to academic excellence, incorporating set strategies and initiatives in teaching.
- The continuous re-designing of the course plans of all programs has helped the students to receive better academic value.
- The unit plan has been analogous to an entire hiking trail in education.
- Semester system of evaluation has been introduced in some programs (B. Pharm, MPH).
- MCQs and OSCE, OSPE have been strengthened, and MCQs have 20% weightage of marks.
- Three external evaluators are appointed for Ph.D thesis evaluation.
- The student to patient ratio in Outpatient Department (OPD) is good in all the clinical departments which, enables effective teaching.

- The tele-medicine facilities at the OPDs of peripheral community centers and multi-specialty tertiary hospital enable effective outpatient teaching with abundant case matrix.
- ICT enabled teaching has improved inpatient teaching.
- The management of urban and rural health centers has been appreciated by Government of Karnataka.
- The set-up of community radio station “*Venu Dhwani*” promotes health awareness through health education imparted by experts and senior faculty. The students are also encouraged to participate in health related programmes.
- Community teaching has helped students and teachers to understand educational opportunities in the community, learning potential of community settings and in planning clinical teaching in a range of service settings in the community.

2.3.2 Does the institution provide course objectives, outlines and schedules at the commencement of the academic session ? If yes, how is the effectiveness of the process ensured ?

Yes

Initiation:

- The course objectives, outlines and schedules for academic session of the University are posted on the university website and also on the websites of the constituent units and updated regularly.
- Printed syllabus copies of each course are made available to the students at the co-operative stores in the campus.

Sustenance:

- Every academic year commences with a meeting of the Vice-Chancellor, Principals and the Heads of the various Departments of the constituent units to discuss in detail the academic plan for the year.
- Heads of the Departments alongwith other faculty members discuss on the allotment of the time for theory, practicals, clinical teaching and bedside clinical demonstration in the OPD, Operation Theatre (OT) and the wards.
- Distribution of teaching hours per subject is done as per the norms of the statutory bodies.

- The individual teacher works out the teaching plan of his/her topic / subject / practicals / bedside clinical demonstration.
- Integrated time table of the Department is prepared and submitted to the Principal for approval.
- Coverage of curriculum is periodically reviewed by the Heads of the Departments and Principal.
- The formative and summative assessments are conducted as per the schedule.
- The Mentors / Tutors through correspondence keep the parents / guardians informed about the attendance and academic progress of their wards. If necessary parents are called.

Enhancement:

- Revision of syllabus is undertaken once in 3 years.
- Orientation program is conducted for newly admitted students at the beginning of academic session every year, wherein the faculty provides essential knowledge on key aspects of the course, including its objectives and schedules.

2.3.3 Does the institution face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.

NO

The teaching goes on as per stipulated Calendar of Events. Till date, all the constituent units have been completing the curriculum within the stipulated time frame. Hence, no challenges were encountered.

2.3.4 How is learning made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.**Initiation:**

- One of the objectives laid down by the University was to enhance reading and learning capabilities among students and faculty inculcate a sense of life-long learning that is being practiced in day-to-day teaching.

Sustenance:

- The teaching-learning process of the University is learner-centric. Every effort is made to make the teaching-learning process interactive, interesting and meaningful.
- Some of the participatory methods adopted by the University are classroom teaching, practical demonstrations, case studies, debate, group discussion, home assignments, seminars, critical appraisal, field trips, postings in primary and urban health centers, literature surveys, street plays, health survey, projects, and dissertations. The students of Pharmacy colleges are trained for drug formulation studies in pilot plant.
- The constituent units of University like, Ayurveda and pharmacy organise industrial visits and study-excursions to acquaint the students with the changes taking place in their field of study.
- Students are encouraged to participate in elocution and quiz competitions, conferences, and workshops that are conducted within the institution and those conducted by other institutions, which contribute to holistic development of the students.
- The University has adopted Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OSPE) and Objective Structured Learning Method (OSLM) as a part of the learning process.

Enhancement:

- The Clinical Skill Laboratory organized workshops facilitate improvement in learning ability of students.
- Quality improvement programs are conducted by UDEHP and Basic Science Research Center.
- Sharing of experiences regarding rare and complex cases by experts during case discussions and journal clubs facilitates life-long learning of PG students and teachers.
- Apart from organization of international and national conferences where live demonstrations of unique and new surgeries/techniques are done, routine operation theatre procedures are also telecasted for the benefit of the students.
- Guest lectures and seminars are regularly conducted on moral and ethical issues for the holistic development of the students.

2.3.5 What is the institution's policy on inviting experts / people of eminence to augment teaching-learning activities ?

Initiation:

University has been extending invitation to subject experts and people of eminence, recognized nationally and internationally. It has facilitated globalization of health education and has benefited the faculty and students.

Sustenance:

- The University has its own policy of inviting experts who are highly qualified with rich academic and clinical experience to augment teaching-learning activities.
- All the constituent units of University conduct continued education programs through their well-established Departments to which experts / people of eminence are invited. So far, 370 education programs have been conducted by Department of Medical Education (DOME), Department of Dental Education (DDE), Department of Ayurveda Medical Education (DAME) and Department of Physiotherapy Education (DPE), QIP cells of Pharmacy colleges, etc.
- University organizes series of Guest Lectures. Distinguished scientists / eminent speakers of national and international repute are invited for the same. So far, 48 such lectures have been organized.
- University Department of Education in Health Profession conducts workshops by experts in the field of health sciences. Till date, 42 programmes that include guest lectures and workshops, have been organized for students and faculty.
- Basic Science Research Center and JNMC Women's and Children's Research unit regularly invite eminent scientists and research experts in various fields.
- All the constituent units organize International / National / State / Regional Conferences / CMEs / Seminars / Workshops wherein, people of eminence are invited, which augments teaching-learning activities.

Enhancement:

- The University has appointed Professor Emeritus, Adjunct Professors and Visiting Professors who are people of eminence in their fields. Their expertise is utilized for augmenting teaching-learning process.
- The newer research projects bring experts in the respective fields such as nutrition, child development, prevention and management of complications of pregnancy, ayurgenomics and cell culture, which facilitate upgradation of the knowledge and skills.

2.3.6 Does the institution formally encourage learning by using e-learning resources ?

Yes

Initiation:

The availability of excellent ICT enabled infrastructure has facilitated blended learning, that incorporates face-to-face classroom methods, combined with computer-mediated activities.

Sustenance:

- University has digital library of international standard with Wi-Fi facility, broadband facility.
- E-learning resources, MED-RC Server, Helinet, Science Direct, e-books, Journals, e-database facility, teaching material in the form of CD's, interactive learning facilities are available.
- Access to Cochrain database, INFLIBNET is provided.
- Access to “Sakshat.ac.in” through 1 GBPS lease line obtained through NMEICT (National Mission of Education through ICT) is made available.
- Prominent publishers of health science books from corporate circles are invited to exhibit their pedantry for the benefit of students and faculty.

Enhancement:

- Excellent student's achievement outcomes are proofs for utilization of blended learning.
- The technology is made use in patient care. All the Departments are provided LAN system, CCTV network, DI-Com and PACS system through which patient information is accessed.
- Video conferences, webinars, telemedicine and tele-pathology are conducted to promote e-learning.
- The pictures of electrocardiogram (ECG), electroencephalograph (EEG) and CTG are shared with the respective consultants through the individual mobile network.
- The Institutional repository of the central library is periodically upgraded.

2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning and open educational resources used by the faculty for effective teaching?

Initiation:

E-learning and open educational resources have been made available in the University for students and faculty that ensures experimentalization in existing paradigm.

Sustenance:

- Use of ICT has become integral part of teaching-learning process of the University.
- All the departments of constituent units are equipped with ICT enabled pre-clinical, and clinical laboratory facilities which facilitate the faculty to render effective hands-on training to the students.
- 88% of faculty use technology-based teaching, as per the study conducted by IQAC of the University.
- 100% faculty members working in the University have acquired knowledge and exposure in the use of computers. About 80% of the faculty members have their own laptops.
- The Wi-Fi facility in the campus and networking of departments facilitate effective use of technologies.
- The faculty use computers and other audio visual aids (OHP, power point presentation) to teach more than 40% of the content.
- A well-equipped library with e-learning facility in central library, and e-learning modalities are made available to the students in department.
- Being a member of UGC-approved INFLIBNET N-LIST Programme, the faculty can access a wide range of e-journals and e-books.
- Libra Balance kit is used for virtual training.
- Skill laboratories train the students for all surgical and other procedures with the help of mannequins and simulators.
- Virtual coaching classes for training in entrance examinations are conducted.

Enhancement:

- Availability of Tele-Medicine and Tele-Pathology apart from regular technologies have facilitated video conferencing and webinars with experts across the globe.
- Computer Science is one of the compulsory subjects for students of B.Pharm and physiotherapy.
- The advanced technologies like networking with other educational institutes / agencies have enhanced the learning culture in the students.
- EZ-PROXY Software in library enables the faculty to access information from libraries located elsewhere.
- Use of digital interactive Smart boards has yielded desired results.

2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the institution's educational processes?

Yes

Initiation:

The University has been encouraging development in open source community with National Mission of Education through Information and Communication Technology (NMEICT) project since 2013. This has helped the effort of the University to collaborate with institutions of higher learning and research with a high speed data communication network to facilitate knowledge sharing.

Sustenance:

- The University has designated group of faculty to monitor the trends and issues in open source community and is under the direct supervision of Registrar.
- The University has signed a Service Level Agreement (SLA) under National Mission of Education through Information and Communication Technology (NMEICT) project.
- Selected members of faculty from all programs are invited as resource persons to respective governing body meetings for discussions in curriculum.
- Some faculty members of different disciplines are also invited to record e-learning modules.

- Departments of Community Medicine, Public Health Dentistry and Community Based Rehabilitation in Physiotherapy, Swasthvritha, Nursing, Pharmacy and University Department of Public Health and Research Unit regularly monitor the trends and issues regarding developments in Open Source Community.
- The students/interns are posted in primary health centers, old age homes, orphanages and urban health centers for clinical training to enhance the skills in community services.
- Based on the common observations in the community, the policies are modified at the institutions and at the University level.

Enhancement:

- The University has initiated establishment of Center for Disease Surveillance and Control that ensures monitoring of trends and issues regarding community-related health issues. The members of the Committee of the Center integrate their experience with institution's educational process.
- Increase number of research collaborations, industry-institutional collaborations and clinical trials have facilitated development in open source.
- Site Management Office (SMO) and research unit have designated faculty to monitor research trends and their community application.
- The outcomes of these research findings have been accepted **nationally and internationally, and changed the National [eg: Misoprostol and National Navajaat Shishu Suraksha Karyakrama (NSSK)] and International (WHO on misoprostol and NIH on antenatal corticosteroid use) Health Policies. It has also been integrated in the routine curriculum.**
- **Maternal New-born Health registry** (the pregnant and new-born health):- This is established in 2008 wherein following observations are made.
 - a. Yearly eligible couple (married women of reproductive age (MWRA) survey is undertaken, from which likely-to-conceive women will be identified.
 - b. These likely-to-conceive women are tracked for early identification of pregnancy. Once pregnancy is suspected, Urinary Pregnancy Test (UPT) is done to confirm pregnancy.
 - c. These identified pregnant women are enrolled into this registry after consent, wherein MN01 form is filled.

- d. These women are tracked for pregnancy outcome / complications, etc. the study is completed at the end of pregnancy (Delivery/ miscarriage) and MN02 form is filled up.
- e. Post-delivery (for all live births), third form-MN03 is completed at 42nd day.
- f. Since 2008, more than 1,50,000 pregnancies are tracked with 99% accuracy.
- g. This MNH registry provides information on the birth rate, live birth rate, still birth rate, NMR (early & late), MMR, etc.

2.3.9 What steps has the institution taken to transition from traditional classrooms into an e-learning environment?

Initiation:

The University has adopted variety of media to facilitate e- learning which was in evolving process. It has continued to equip with the ICT-based devices to make learning a vibrant experience.

Sustenance:

- The workshops on Evidence Based Practices and Research Methodology are conducted which has changed the outlook of the faculty and the students.
- Institution has taken various steps for transition from traditional classroom into e-learning environment. Based on the study conducted by IQAC, it is noted that 88% of the faculty use ICT enabled-teaching.
- All classrooms are equipped with LCD projection and computer systems.
- Majority of the faculty belong to younger age group who are easy and eager to adapt to the changes.
- 100% of faculties have undergone computer training.
- Wi-Fi campus with 40 mbps broadband connectivity enables e-learning.
- Constituent colleges and hospitals have digital library facility which is a rich source of e-learning.
- Libraries also subscribe e-books and journals.
- Med-RC provides virtual e-learning lectures by experienced teachers.
- HELINET provides free access to Ovid SP, Science Direct, Cochrane Database, etc.

Enhancement:

- Up-gradation of Tele-medicine, Tele-conference and e- library facilities is done in hospitals for clinical and academic benefits.
- In view of the rapid advancement in the health science, the University has adapted method of Evidence Based Practices in teaching and health care.
- Conduct of e-journal clubs and e-seminars in digital library is a regular feature.
- EZ-PROXY software in library enables the faculty to access information from any library elsewhere.

2.3.10 Is there provision for the services of counselors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.

Yes

There is provision of counselor, mentor, and advisor for each student to deal with psycho-social needs like emotional, behavioral, social problems and for academic problems like stress, difficulty to cope-up with course curriculum, which has greatly improvised the efficiency of students.

- The University offers tutorial system in which students have benefit of being tutored by the same faculty throughout the academic year. The tutors/mentors are always available for continuous academic counseling and guidance to the students. The parents are called, as and when need arises, for better guidance of the students.
- Tutor ward system is in place in all the institutions, where the students mentored by the faculty is in the ratio of 1:10-15. The senior students also act as mentors to junior students in the ratio of 1:6.
- Qualified student counselor is appointed by the University for benefit of students for academic and psycho-social counseling. The student counselor is psychologist who has evaluation strategies for assessing students with academic, personal and psycho-social problems. The Counselor and Mentors address the students at the commencement of academic course during the orientation programme. The Counselor assists the individual in understanding his /her potentialities and limitations, and utilizes them best in achieving the goals.

On an average ninety-five (95) students take the benefit of counseling every year.

2.3.11 Were any innovative teaching approaches / methods / practices adopted and implemented by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?

Yes

Initiation:

Faculty members are aware that the degree of success of any activity largely depends on proper planning and effective execution. Educational activities including teaching-learning are no different from this. This has initiated faculties to come-up with many innovative teaching approaches, which have made teaching learner-centric.

Sustenance:

To ensure the qualitative improvement in teaching, the University insists on innovations in teaching methodology like:

- Use of Information and Communication Technologies.
- Participatory method of learning in-and-out of the classroom, laboratories/ practicals, bedside teaching in OPD, operation theatre and wards.
- Clinical skill enhancement through use of various methodologies like, use of specimens, simulators, video-assisted learning, etc.
- Workshops on curriculum development.
- Need-based revamping of formative and summative types of evaluation.
- Weightage is assigned to each topic.
- In practical examinations, OSCE, OSPE and OSLM are practiced.
- Many faculties have been awarded for their innovative work in various national and international academic fora.
- As per study conducted by IQAC of University, 100% of teachers prioritize their teaching. 68.60% of teachers use various innovative methods in teaching.
- The innovations are duly and continuously rewarded through the recognition in the form of 12 Best Teacher Awards alongwith financial assistance and 6 Best Department Awards on Teachers Day every year.

Enhancement:

The following innovative practices are adopted and implemented by the faculty, which have improved learning:

- (i) **Blue book continuous evaluation:** This continuous evaluation is conducted on completion of a topic in each subject. This helps to evaluate slow and advanced learners.
- (ii) **Log book:** Day-to-day performance of the students including research activities is maintained in the log book.
- (iii) **Project work:** Undergraduate students are given projects regarding recent advances to get updated in the present trends. Seminars are presented by the students to improve communication skills.
- (iv) **Monitoring of PG dissertation work:** All Departments have Department Dissertation Committees who evaluate the progress in the research work of the postgraduate students. Suggestions and guidelines are given for their future work. This helps the students to keep pace with the time in their work.
- (v) **Academic Review Committee (ARC):** ARC meets periodically to monitor the academic progress of undergraduates and postgraduates.

2.3.12 How does the institution create a culture of instilling and nurturing creativity and scientific temper among the learners?**Initiation:**

The institute has been encouraging students and faculty, right from inception, to learn by questioning, observing, testing, hypothesizing and communicating, which are important components for creation of scientific temper and creativity.

Sustenance:

- The University encourages students for participating in scientific meetings, for paper/poster presentations and manuscript writing for publications, by providing incentives and leaves.
- Conference / workshops/ seminars are conducted in all the constituent units to encourage advancement of knowledge and promote participation in scientific activity.
- The journal clubs/ seminars/ case discussions promote scientific temper and creativity.
- Undergraduate and postgraduate students are encouraged for research and trained for grant writing to various funding agencies like, ICMR and VGST.

- Regular Clinicopathological Conferences (CPC) and Evidence Based Practice workshops are conducted.
- Inter-departmental meetings with PG students are held regularly.
- The annual scientific convention is held exclusively for all students.

Enhancement:

Following awards are instituted by the University to encourage young learners:

- a. Best Ph. D Thesis Award.
- b. Best Post-Graduate Dissertation Award.
- c. Cash Award / Incentive for publication of Text Book / Reference Book.
- d. Best Scientist Award.
- e. Best Young Scientist Award.
- f. “Earn while you Learn” Scheme.
- g. Cash incentive to the faculty members on the financial grant received from funding agencies.
- h. Basic Science Research Centers have been established.
- i. The selected best research projects sent by the University for Inter-University Research Competitions have won awards.
- j. Inter-University student exchange programmes have been mutually beneficial in encouraging learning.

2.3.13 Does the institution consider student projects mandatory in the learning program? If yes, for how many programs have they been (percentage of total) made mandatory?

- * number of projects executed within the institution
- * names of external institutions for student project work
- * role of faculty in facilitating such projects

Yes

It is mandatory for postgraduate degree programmes and is optional for undergraduate programmes.

Initiation:

As the University aims at making education learner-centric, emphasis is on the students, and on increasing their potential to contribute to educational excellence. In addition to their conventional role as recipients, the students are

encouraged to take up projects of their interest in all programs that help them to find and study a problem, to plan and execute the study, and publish the results.

Sustenance:

- Around 996 projects of postgraduate students are executed by the constituent units as a mandatory requirement in last 4 years.
- Around 200 research projects of postgraduate and Ph.D scholars are in collaboration with external institutions like World Health Organization (WHO), Indian Council of Medical Research (ICMR), National Institute of Mental Health and Neuro-Sciences (NIMHANS), Pharmaceutical industries and foreign Universities like, University of Illinois, Chicago, USA, Rhodes University, South Africa, National Institute of Child Health Department (as follow-up projects) (NICHD, USA), etc.
- These activities have facilitated involvement of faculty in bringing out Memorandum of Understandings (MoUs) with several institutions / organizations and resulted in necessary correspondence for collaborations.
- The faculty members are involved in student projects as their guides

Enhancement:

There has been two-fold increase in the number of projects by students and faculty members. This has resulted in improvement in the quality and quantity of publications.

2.3.14 Does the institution have a well qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented ?

Yes

Initiation:

From the very commencement, University has well-qualified pool of human resource. The emphasis of the University has been on employee's creativity to maximize his / her performance.

Sustenance:

- All the constituent units have highly qualified and experienced faculty members, adequate non-teaching and technical staff to meet the requirements of the apex regulatory bodies.

- Retention of staff members has been a great strength of University as is evident by the fact that approximately 50% of faculty members are serving for more than 10 years in constituent units of the University.
- As per study conducted by the University almost all teachers have undergone training programmes. Around 52% teachers have attended these programmes at college and University levels, while additional 23.8% are trained at other places.

Enhancement:

University has appointed Visiting faculty, Adjunct faculty and Emeritus Professors for enhancing quality of education imparted to the students.

2.3.15 How are the faculty enabled to prepare computer-aided teaching / learning materials? What are the facilities available in the institution for such efforts ?

The University believes that for maximum and durable learning outcome, and realistic teaching-learning experience, use of computer-aided learning (CAL) media is essential.

- All institutions have digital library sections with internet facility which is utilized by faculty for research and teaching.
- The University has organized several workshops on skills in computer operation for faculty. 100% faculties working in the University have acquired knowledge and exposure in the use of computers.
- Most of the faculty members have their own laptops. The institute has assisted in the acquisition of laptops.
- Campus is Wi-Fi enabled and all the Departments have leased line broad band internet connection.
- All teaching rooms are equipped with LCD projectors and computers, to aid in teaching.
- The skill laboratories and simulators have enhanced the teaching abilities.

As per study conducted by University, 88% of faculty use computer-aided teaching, whereas only 12% teach by chalk and talk method, which indicates changing trend in teaching.

2.3.16 Does the institution have a mechanism for the evaluation of teachers by the students / alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?

Yes

Initiation:

The University has credible evaluation system of teachers to foster teacher's quality and promote professional development. These measures have improved teaching practices.

Sustenance:

- The University has introduced the system of evaluation of teachers by the students and alumni. At the end of the academic year, scientifically developed feedback forms are distributed to the students.
- The feedback received, is analyzed by using appropriate software package (SPSS) and the outcome is communicated to the teacher concerned.
- The student-rating of teachers is used as one of the parameters for selection of **Best Teacher and Best Department** award.
- The feedbacks obtained from students have helped in improving the infrastructure like, provision of A-V aids.
- The outcome is not used for punitive action but, for professional development of the teacher. If the teacher fails to improve even after repeated gentle reminders, there is provision to initiate necessary disciplinary action.

Enhancement:

- Study conducted by IQAC of University, has shown that feedback is used by all teachers to evaluate their teaching abilities. Around 32% teachers evaluate their performance based on feedback from students, 11% rely upon peer feedback and rest (57%) of them follow the feedback from both students and peers.
- Individual teachers apply the “input-process-output” model to systematize their teaching.

2.3.17 Does the institution use telemedicine facilities for teaching-learning processes? If yes, cite a few instances.

Yes

- The teaching hospital and Primary Health Center at Kinaye have telemedicine connectivity which is accessed by the faculty and students. The queries of the patients in remote places are answered through this facility by the senior doctors, and students are involved in this process.
- Tele-Pathology and tele-radiology facilities are available which aid in the teaching-learning process.
- The teaching rooms in the institutions have CCTV connectivity with major operation theatres for surgical education and live demonstration of surgical procedures.
- Facility for teleconferencing and webinars is used for national and international conferences, seminars and live operative workshops that have facilitated global correspondences.
- A telemedicine van equipped with facility for connection to hospital through Insat 1B satellite is used for community-based rural patient care and teaching/training.

2.3.18 Does the institution utilize any of the following innovations in its teaching- learning processes ?

- * **ICT enabled flexible teaching system.**
- * **Reflective learning.**
- * **Simulations.**
- * **Evidence based medicine.**
- * **Emphasis on development of required skills, adequate knowledge and appropriate attitude to practice medicine.**
- * **Problem based learning (PBL).**
- * **Student assisted teaching (SAT).**
- * **Self directed learning and skills development (SDL).**
- * **Narrative based medicine.**
- * **Medical humanities.**
- * **Drug and poison information assistance centre.**
- * **Ayurveda practices.**
- * **Yoga practices.**
- * **Yoga therapy techniques**
- * **Naturopathy and its practices.**
- * **Any other.**

Yes

Initiation:

The University has been giving importance to innovations in teaching-learning processes, which have made learning effective and enjoyable. It helped students to develop deeper learning competencies.

Sustenance:

- Information and Communication Technologies (ICT) are integrated by way of networking, access to internet, virtual library resources, e-learning and development of e-content and computer-based trainings in order to meet the technologically driven global needs.
- The institutions continue to be equipped with the ICT-based devices to make learning a vibrant experience.
- Reflective learning by hands-on training and experiments enhances the personal learning abilities of the students.
- Teaching on simulators in medicine, dentistry, physiotherapy and nursing has enhanced the skill of students to a great extent. Treatment and assessment techniques like electrotherapy, manual therapy and exercise therapies, ALS, BLS, PALS and HBB skills, as well as, ICU management techniques are taught on mannequins.
- Emphasis is laid on development of required skills, adequate knowledge dissemination and appropriate attitude development to practice medicine.
- Learning is made more active and self-directed by giving the students newer and challenging topics for seminars and article presentations.
- Student-assisted teaching is done through small group activity, seminars, journal clubs, tutorials, etc.
- The e-learning also provides the choice of interactive tutorial module. They can also take self assessment test available on the e-learning module. The central library has an audio-visual section archiving CDs and cassettes on various topics. Many departments maintain a set of CDs and DVDs related to their speciality.
- Narrative medicine is inculcated through PG orientation programme.
- Tutorials are part of academic schedule and are conducted in each subject. It consists of concept clarification and better understanding of the subject. Previous examination question papers and model question papers are discussed and solved in the class rooms. The students are trained in writing the answers.

- The faculty members are trained in EBM in an International Workshop organized by the college in collaboration with University of Illinois, Chicago, USA. PG students are sensitized to EBM during PG orientation programme which is conducted every year for fresh batch of PG students.
- Integrated teaching modules are introduced and practiced.
- The teaching hospital has well-established poison detection center that identifies 50 poisons / toxic components, and plant poisons with freshly prepared standards / purified components.
- Pharmacokinetics and pharmaco-vigilance facilities are provided in the hospitals of the University.
- Clinical skills Laboratory teaching is an integral component of teaching methodology practiced in the constituent units.
- Problem based learning has been introduced in the PG syllabus of Medical Surgical Nursing.
- The Ayurveda college renders all Ayurvedic treatment facilities with 281 bedded hospital, 23.5 acres Ayurvedic herbal garden and GMP certified Ayurvedic pharmacy.
- Yoga is part of curriculum in some programmes and classes are conducted regularly. Yoga training centers train the students.

Enhancement:

- Well-equipped pre-clinical and skill-based training at various set-ups train the students and make them more confident, before they reach the clinics, so as to aid in patient management.
- Ethics in research is an integral part of teaching for postgraduate students and research scholars of all disciplines of the University.

2.3.19 Does the institution have an Electronic Medical Records facility, staffed by trained and qualified personnel? Is it used for teaching-learning process ?

Yes

Initiation:

The initiative for moving onto the electronic platform of storing patient medical records has helped in accurate, reliable and economic management of data.

Sustenance:

- The University's teaching hospital including Ayurvedic hospital have an electronic medical record facility (Hospital Information System Software) Department which is manned by qualified personnel.
- Medical Records are maintained as per International Coding for Diseases (ICD-10).
- The Department keeps complete updated records of both inpatient and outpatients. Trained employees are handling the electronic recording of the documents.
- The Research Center of the University also has electronic medical record facility for all funded national and international projects which is managed by a specialized team for research data management and analysis.
- The records are used for teaching-learning process like thesis writing and research and for case discussion and practical examinations.
- The dental, physiotherapy and nursing personnel of the hospital also keep well-documented records of all OPD and IPD patients.
- The outpatient information and billing in the hospital is computerized. The facility in the hospital is used effectively by the student and faculty members for improving their professional skills.

Enhancement:

- The Department of Epidemiology and Biostatistics also has electronic record facility.
- MNH database is established since 2008, which is being used as the main source for new research programs in the community.

2.3.20 Does the institution have well documented procedures for case sheet writing, obtaining informed consent and the discharge process of the patients ?

Yes

Systematized documentation has been the strength of hospital with guidance and inputs from senior consultants and qualified technical personnel.

- Well-designed and validated formats for case evaluation are available for every department, which is written at the time of admission.

- Ethical practice of obtaining informed consent in vernacular language prior to therapeutic and diagnostic procedures is a standard method followed.
- Discharge process of patient is smooth and patients are provided discharge summary with treatment details and follow-up plans.
- The National Accreditation Board for Hospitals and Healthcare Providers (NABH) and National Accreditation Board for Testing and Calibration Laboratories (NABL) accreditation processes of hospitals have greatly facilitated documentation procedures like case sheet writing, informed consent and discharge summary.

2.3.21 Does the institution produce videos of clinical cases and use them for teaching- learning processes?

Yes

- This practice is existing for many years in the University. This has helped in effective teaching-learning process and in developing an integrated approach to acquire information about new methods, investigations and interventions.
- Interesting cases and operative procedures are video-graphed and are used for presentation in the periodic clinical meetings.
- All the clinical department libraries have video CDs on various types of diseases and rare clinical cases in the archives, which can be retrieved, as and when needed. These are shown to the students for the development of the knowledge and skills. The videos are also made available to the students, patients and caretakers.
- The facility of video graphing has provided an outstanding source of learning and reference to the students, and has greatly increased their knowledge and self-confidence while dealing with patients.

2.3.22 Does the institution perform medico legal / post-mortem procedures with a view to train the undergraduate and post-graduate students in medico legal procedures?

Yes

Initiation:

The post-mortem examination has been integral part of curriculum for the students of medicine and has been an excellent teaching resource for the students.

Sustenance:

- The Department of Forensic Medicine is involved in medico legal/ post- mortem procedures and engages in training both UG and PG students in these procedures. Forensic dentistry is part of the curriculum for the discipline of dentistry.
- The post-mortem room is located next to the mortuary with cold storage facilities, which has well documented Standard Operative Procedures (SOPs).
- UGs witness the autopsies, while the PGs conduct them under the guidance of senior faculty members. On an average, 120 to 200 post-mortems are done in a year.
- The students visit various post-mortem centers like District Hospital Post- Mortem center and KLE Hospital Post Mortem Center. to get trained in post-mortem procedures. They visit the District and Sessions court to witness the medico legal procedures.

Enhancement:

- This training has allowed three dimensional revision of anatomy in a more clinical context, and has been able to place textbook descriptions of pathology into a clinical context.
- It has promoted problem-solving skills essential to medical practice.
- It has provided an audit role such that students can see the results of treatment on the pathology of the individual, and evaluate the efficacy of treatments they have observed in the wards.
- It prepares the students for the practical component of clinical pathology examination and has helped students come to term with the fact that some patients may not survive, and that this is an accepted part of medical practice.

2.3.23 Does the institution have drug and poison information and poison detection centres? How are these used to train the students?

Yes

The information regarding drug and poison is incorporated into the curriculum of most of the programs.

Sustenance:

- The teaching hospital has Drug and Poison Detection Center. The Center undertakes qualitative analysis of common poisons by thin layer chromatography, colour tests and basic methods of extracting the poisons from the body fluids. The students are taught various aspects of drug and poison analysis at this Center.

- Students of nursing are trained in the first-aid management of victims of poisoning.
- Physiotherapy students are taught in detail about the ergogenic aids and blood doping along with the drug and poison information, under the subject of Pharmacology. Invited speakers also educate them on these aspects.
- Drug Information Center at the teaching hospital is staffed by licensed graduate pharmacists and postgraduate students of Pharmacy Practice who have specialized training in drug information.
- The students of ayurveda are well-oriented and trained in identifying poisonous drugs. Various biochemistry tests for the detection of the poisons are taught by the Department of Agadatantra.
- Establishment of center for Drug and Poison Detection Center at teaching hospital has facilitated around 200 cases of poison detection every year.

2.3.24 Does the institution have a Pharmacovigilance / Toxicology centre / clinical pharmacy facility / drug information centre / Centre for disease surveillance and control/ Prevention through Yoga / Promotion of positive health/Well- equipped Psychology Laboratory/Naturopathic diagnostic centre, etc. ?

Yes

Initiation:

The University has been equipped from the very beginning with Toxicology Center, Pharmacy facility, Naturopathy, Yoga Center, Drug Information Center and Fitness Center for promotion of positive health and wellbeing through regular fitness assessment and training.

Sustenance:

- The institution has Pharmacovigilance Centre wherein on an average 170 Adverse Drug Reactions (ADR) are reported every year (Medicine Department).
- In Ayurveda Hospital state-of-the-art facility of Panchakarma, Yoga and Naturopathy is available which is used by all the stakeholders.
- Faculty and students of Department of Clinical Pharmacy participate in patient care.

- There is a facility of clinical psychology laboratory which is an integral part of Department of Psychiatry.
- On 3rd Friday of every month, the hospital conducts a program for patients on '**Ragas for Rogas**' and '**Melody vs Melady**'.
- The University also organizes physical and spiritual speeches and workshops for positive health for the benefit of students, teaching and non-teaching staff.
- University has started a new Diploma Course in '**Value Education and Spirituality**'.
- The Ayurveda College is a peripheral Pharmacovigilance Centre for Ayurveda, Siddha and Unani (ASU) drugs. So far 66 ADR's per year have been reported.
- Pharmaco-vigilance is practiced for in-service nurses as per the module prepared by the College of Pharmacy.

Enhancement:

- Initiation of establishment of Center for Disease Surveillance and Control intends to adopt community surveys, detection, prevention and control of communicable and non-communicable diseases in the district of Belagavi.
- University has established a Psychiatry Day Care Centre for rehabilitation of psychiatry patients funded by Govt. of Karnataka under public private partnership.
- Pulmonary rehabilitation centre has been established.
- *Utsaha* is an innovative specialty clinic in Ayurveda hospital for the lifestyle management.

2.3.25 Laboratories /Diagnostics

- * **How is the student's learning process in the laboratories / diagnostics monitored? Provide the laboratory time table (for the different courses).**
- * **Student staff ratio in the laboratories / diagnostics.**

Annexure V : Laboratory Time-Table of all courses

Initiation:

The University programs have recognized that knowledge based upon experimental results and accurate observations is gained through a variety of experiences. Thus, the role of the laboratory and field-learning are key components in the curriculum since inception of the University.

Sustenance:

- All the constituent units of the University have well-equipped pre-clinical and clinical laboratories, and clinics which are monitored by technicians and staff incharge.
- Undergraduate and postgraduate students are posted to the above said laboratories and clinics as per the time table wherein their work is monitored by the faculty through log books, practical records, journals, etc.
- The students are exposed to hands-on experience on Phantom heads/mannequins which provides them training in basic sciences, pre- / para-clinical laboratories, and equip them with the skills of anatomy, physiology, pathology, toxicology, jurisprudence, preventive and social medicine (hygiene) procedures.
- The teaching hospital provides good quality and safe laboratory services to the patients.
- Student-staff ratio in the laboratories and clinics for undergraduates varies from 15:1 to 3:1 and for postgraduates it is 1:1.
- Clinical Skill Laboratory has a separate Calendar of Events.

Enhancement:

- NABL accredited and AYUSH certified laboratories are provided.
- The knowledge of laboratory methods has helped students to learn assimilation of scientific data, concepts, hypotheses, theories, methodology, use of instruments and conceptual themes. This has also helped the students to develop understanding and appreciation for research.
- GLP workshops sponsored by Ministry of Health & Family Welfare under the scheme of Human Resource Development for Health Research are being conducted regularly.
- Basic Science Research Centre of the University conducts basic and advanced training programs for faculty and students.

2.3.26 How many procedures / clinical cases / surgeries are observed, assisted, performed with assistance and carried out independently by students in order to fulfill learning objectives ?

- The procedures/clinical cases/surgeries that are observed, assisted, performed with assistance and carried out independently by students are as per the requirement of regulatory bodies for undergraduates and postgraduates to fulfill learning objectives.
- On an average UG student, during their clinical posting, study 80% of the patients attending OPD, and those admitted to wards. They observe 70-80% of the operations/ procedures/ clinical cases.
- PG's assist for all major operations/ procedures and perform 70-75% minor operations / procedures under guidance. The senior PG's perform about 20-25% major operations / procedures under guidance.
- The interns assist nearly 50% of the major operations/ procedures, and perform about 25% of minor operations under guidance.
- All programs have well-designed log books/work diaries for undergraduate and postgraduate students in which they maintain records of number of procedures/clinical cases/surgeries they have observed, assisted, performed with assistance and carried out independently, which is then verified by the staff member.
- Faculty members of the respective specialty teach the students various procedures, case studies, case discussions and case presentations in the wards/ clinics/ laboratories.
- The students observe, assist, perform with assistance and carry out independent procedures / clinical cases / surgeries in surplus to the requirements of the regulatory bodies. Monthly and yearly record of procedures performed by students is available.
- The students are encouraged to present rare cases, surgeries and procedures at various scientific fora.

2.3.27 Does the institution provide patients with information on complementary and alternative systems of Medicine?

Yes

- The teaching hospitals of the University provide patients with information on complementary and alternative systems of medicine.
- The Ayurvedic hospital has state-of-the-art facilities with specialty clinics and In-Patient facilities. This hospital has many national accolades to its credit. Patients are informed about this Vedic system of medicine.

- The information regarding the availability of alternative and complementary medicine is disseminated through the Public Relations Officers of the respective units, websites, display boards, awareness camps, distribution of brochures, etc.
- The teaching hospital has OPD's for alternative medicine incorporating Yoga, Ayurveda, Naturopathy, Physiotherapy and Homeopathy.
- Under Public Private Partnership (PPP) University has adopted 3 Urban Health Centers and 3 Primary Health Centers, wherein the alternative systems of medicine are promoted and practiced.
- Emphasis is laid on complementary and alternative system of medicine through integrated research projects, and its outcomes that benefit patient care. Number of funded research projects on complementary and alternative system of medicine are in progress.

2.3.28 What are the methods used to promote teaching-learning process in the clinical setting ?

- The well-equipped teaching hospitals, Peripheral Health Centers and Laboratories provide good clinical setup to promote effective learning. The objective of promoting teaching-learning process in the clinical setting is attained by following procedures.
 - a. Hands-on training on simulators in pre-clinical and clinical laboratories.
 - b. Bedside/chair-side case presentations and case discussions regarding treatment plan and post-treatment instructions between faculty and students in the clinics.
 - c. Drug studies, ADR's, Medico-Legal Cases are dealt with separately.
 - d. Monitoring of clinical work by faculty in the clinics.
 - e. Maintenance of log books regarding pre-clinical and clinical work by the students which is monitored by the staff.
 - f. Clinical skills laboratories also ensure skill development for the students through regular teaching and training workshops.
 - g. Grand rounds, Inter-departmental presentations, clinico-pathological meets are conducted.
 - h. ICT enabled practical skill demonstration through direct video telecast of operation theatre procedures to classrooms.
 - i. OSCE/ OSPE methods of evaluation are practiced.

- The promotion of teaching-learning process in clinical setting has brought awareness about relevant theories of learning and its clinical applications. It has enhanced clinical competence and performance of students for effective continuing professional development. It facilitated development of the knowledge and skills required to practice evidence based education and implement a sound educational research protocol.

2.3.29 Do students maintain log books of their teaching-learning activities ?

Yes

All departments maintain well-designed log books covering teaching-learning activities. It has helped to assess small group learning and encourage immediate and ongoing interaction between tutors and students. It has also provided a feedback loop for the evaluation of learning activities.

- All undergraduates, interns, postgraduates, diploma, post-doctoral degree students maintain log books which are verified by respective faculty incharges. The log book includes the details like, type of posting, duration of posting, types of cases/ procedures/ surgeries observed, evaluated and treated independently or with assistance.

2.3.30 Is there a structured mechanism for post graduate teaching-learning process ?

Yes

- Academic Calendar of Events formulated at the beginning of every academic session acts as a guide for structured postgraduate teaching-learning process.
- The teaching-learning process of postgraduates is according to the syllabus prescribed by the regulatory bodies and the University. The teaching process is divided into modules which the postgraduate student has to abide by.
- All postgraduates give examinations at the end of every academic year at institutional level, followed by summative University exam at the end of course.
- The clinical rotation plan, master rotation plan, teaching plan, course / unit plan depict the structured mechanism of postgraduate teaching-learning process.

- Teaching-learning process of some postgraduate courses also includes compulsory publication of research articles and paper /poster presentations at conferences.
- Mandatory submission of the dissertation/ thesis is a pre-requisite to appear for the University Examination.
- Students are posted to various higher centers to enhance their knowledge and skills.
- Regular conduct of Seminars, Journal Clubs, Case Presentations, attendance at Continuing Education Programmes, etc.
- The log books are maintained by postgraduates for continuous monitoring and assessment.

2.3.31 Provide the following details about each of the teaching programs :

* Number of didactic lectures :	As per norms of regulatory bodies and guidelines of University.																							
* Number of students in each batch :	<table><tr><th>Name of the college</th><th>Theory</th><th>Practical</th></tr><tr><td>Medical</td><td>200</td><td>4-25</td></tr><tr><td>Dental</td><td>100</td><td>5-12</td></tr><tr><td>Ayurveda</td><td>75</td><td>3-10</td></tr><tr><td>Nursing</td><td>80</td><td>8-10</td></tr><tr><td>Physiotherapy</td><td>80</td><td>8-10</td></tr><tr><td>Pharmacy</td><td>60</td><td>-</td></tr></table>			Name of the college	Theory	Practical	Medical	200	4-25	Dental	100	5-12	Ayurveda	75	3-10	Nursing	80	8-10	Physiotherapy	80	8-10	Pharmacy	60	-
Name of the college	Theory	Practical																						
Medical	200	4-25																						
Dental	100	5-12																						
Ayurveda	75	3-10																						
Nursing	80	8-10																						
Physiotherapy	80	8-10																						
Pharmacy	60	-																						
* Number of rotations:	<p>Number of rotations is as per guidelines of regulatory bodies.</p> <p>Medical : 2-26 weeks for undergraduates, 15 days-8 weeks during internship.</p> <p>Dental : 2 weeks for undergraduates, 7 days-4 weeks for internship in all departments</p> <p>Ayurveda : Number of rotations- 09/profession</p> <p>Nursing : As per the clinical requirements and the number of hours, the rotations are made separately for B.Sc (N), PB. B.Sc (N) and M.Sc (N) students</p>																							

			Physiotherapy: 15 days in each department	
			Pharmacy : 45 days training at the end of graduation	
* Details of student case study / drug study :			Student case study / drug study is based on the guidelines of regulatory bodies and individual department requirements.	
* Nursing Care Conference (NCC) :			The institute conducts daily, regular bedside nursing care conferences along with other healthcare personnel.	
* Number of medical / dental procedures that the students get to see :			5 to 6 per day	
* Mannequins / Simulation / skills laboratory for student teaching :			Infrastructure facilities with well-equipped skill laboratory, simulators and mannequins are available for practical skill development of undergraduates prior to independent handling of patients.	
* Number of students inside the operation rooms at a given time :			3 undergraduates and 4 postgraduates In all there are 30 operation rooms that will accommodate 150 to 200 students distributed every day.	
* Average number of procedures in the OTs per week, month and year:				
Sl. No	Year	Total No. of Operations	Monthly Avg.	Weekly Avg
1	2009 Sept. onwards	6698	1675	419
2	2010	20772	1731	433
3	2011	23599	1967	492
4	2012	26478	2207	552
5	2013	27233	2270	567
6	2014	29286	2440	610
* Autopsy / Post-mortem facility:		On an average 120 to 200 autopsies/ post-mortems are done in a year. UGs and PGs attend these post-mortem sessions. UGs witness the autopsies while the PGs conduct them under the guidance of senior faculty members.		

2.4 Teacher Quality

2.4.1 How does the institution plan and facilitate its faculty to meet the changing requirements of the curriculum?

Initiation:

- The faculty members are trained by the institution to meet the changing requirements of the curriculum, periodic curricular update is done by the respective departmental faculty in all disciplines, which is approved, after the verification of its feasibility and acceptability by Board of Studies and Academic Council of the University.
- The University promotes the faculty to update their knowledge in their respective field in the following ways :
 - a. The participation at the academic meetings like conferences, workshops, seminars, CMEs, symposia, etc. as faculty or participants, at state, national and international levels. The updated faculty incorporates / adopts the feasible, acceptable, newer methods / techniques into respective field. Faculty is encouraged to attend conferences at state and national level once in a year and at international level once in three years. Special casual leave and financial assistance is also given to such faculty as per norms.
 - b. The faculty members are deputed for specialized training programmes in their respective fields which is a regular feature of the University.
 - c. The University conducts faculty development programs on curriculum through UDEHP.
 - d. The University has made budgetary provision of Rs.100 lakhs every year for organization of conferences and other academic activities.
- Whenever required, the members of the teaching faculty (excluding those deputed by the University), who wish to undergo any kind of overseas training in their chosen field of expertise, are given financial assistance in addition to sanctioning of paid study leave, upto 3 months at a stretch, once in 3 years. Faculty is also deputed abroad for special training programs.
- The senior faculty working in the University also serves as resource persons on various academic platforms.
- The University has instituted 12 awards per year for the teachers who have excelled themselves in teaching, research and extension activities.
- The academically motivated faculty are recognized and given due positions in the academic and administrative bodies of the college, hospital, University and other allied areas.

**2.4.2 Does the institution encourage diversity in its faculty recruitment?
Provide the following details (department / school-wise).**

The University has diverse-group of dedicated and committed faculty working in unison towards achieving the targeted goals.

Department/ college	% of faculty from the same institution	% of faculty from other institutions within the State	% of faculty from institutions outside the State	% of faculty from other countries
J.N.Medical College, Belagavi	31%	37%	33%	0.5 %
KLE VK Institute of Dental Sciences, Belagavi	63%	31%	6%	-
KLE Sri B. M. Kankanwadi Ayurveda Mahavidyalaya, Belagavi	32%	64%	4%	-
KLE Institute of Nursing Sciences, Belagavi	46%	54%	4%	3.5%
KLE Institute of Physiotherapy, Belagavi	75%	19%	6%	--
KLE College of Pharmacy, Belagavi	67%	29%	5%	6.25%
KLE College of Pharmacy, Hubballi	4%	85%	11%	-
KLE College of Pharmacy, Bengaluru	12	80%	8%	-

**2.4.3 How does the institution ensure that qualified faculty are appointed for new programs / emerging areas of study?
How many faculty members were appointed to teach new programs during the last four years?**

- The faculty members are selected through open advertisements, and on the basis of merit considering the qualifications, experience, aptitude for research, publication, interview performance, etc.

- The selection of the faculty in various departments of the University is done as per the Rule No.12 of the MoA 2006. The Rule No. 12 also provides for the constitution and composition of the selection committee for the post of Professors, Readers /Associate Professors, Assistant Professor and Lecturers.
- The Selection Committee in presence of subject experts chaired by the Vice-Chancellor interviews the candidates and marks are allotted for the academic and professional attainments of the candidates and their performance in the interview. For this exercise, an approval evaluation format is used.
- The qualifications and pay scales for the post of Professor, Reader/Associate Professor, Assistant Professor and Lecturer are as per the norms of UGC and regulatory bodies.
- The faculty selected to run new programmes undergo specific / specialized training in reputed national and international institutes.
- During the last 4 years, 288 faculty members have been appointed in different constituent colleges of the University.

2.4.4 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the institution ?

Professor Emeritus : 03

Adjunct Faculty : 04

Visiting Professors : 13

2.4.5 What policies/systems are in place to academically recharge and rejuvenate teachers? (e.g. providing research grants, study leave, nomination to national / international conferences / seminars, in-service training, organizing national/international conferences etc.)

- KLE Academy of Higher Education and Research has frame the guidelines / policies immediately after the establishment and the same is updated periodically to academically recharge and rejuvenate the faculty members. Several faculty members have utilized these privileges. The University appreciates and encourages the faculty participation and paper presentations at seminars, workshops and conferences both, national and international.

- In-house and outbound training programmes for the faculty in their respective field is a regular feature.
- Publication of research papers in national and international journals are encouraged by way of financial rewards and recognition.
- The University has instituted awards for the teachers who have excelled themselves in teaching, research and extension activities.
- The University has made budgetary provision of Rs.100 lakhs every year for organization of conferences and other academic activities.
- Special casual leave is given to the faculty who wish to attend the seminars and conferences.
- The participation at the academic meetings like conferences, workshops, seminars, CMEs, symposia, etc. as faculty or participants at state, national and international levels is encouraged. The updated faculty incorporates / adopts the feasible, acceptable, newer methods/techniques into the respective fields. Faculty is encouraged to attend conferences at state and national level once in a year and at international level once in three years. Special casual leave and financial assistance is also given to such faculty as per norms.
- Study leave is provided for pursuing higher studies.
- Special deputation for in-service training.
- Financial assistance is provided for selected research proposals.
- Scholarship and contingency is provided to research scholars enrolled for Ph.D programme of the University.
- Provision is made for 50% concession in tuition fees to in-house faculty who enroll for Ph.D/ higher studies / research.
- Research scholars can avail the research facilities at KLE Dr. Prabhakar Kore Basic Science Research Center, free of charge.

Enhancement:

Faculty members are rewarded through following schemes.

Best Ph.D Thesis Award	Rs. 20,000/- per Awardee
Cash Award / Incentive for publication of Text Book / Reference Book	Rs. 30,000/- per Awardee
Best Scientist Award	Rs. 30,000/- per Awardee

Best Young Scientist Award	Rs. 20,000/- per Awardee
Cash incentive to the faculty members on the financial grant received from government funding agencies	@ 1% - 2% of the quantum of financial grant received from the funding agencies not exceeding Rs. 50,000/-

2.4.6 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years ?

A total of **114 faculty** have received awards / recognitions for excellence in teaching at the **state, national and international level** during the last 4 years detailed as below:

Year	State	National	International
2010	07	12	02
2011	06	10	02
2012	11	13	03
2013	12	10	01
2014	09	13	03
Total	45	58	11

2.4.7 How many faculty underwent professional development programs during the last four years? (add any other program if necessary)

A total of **6240** faculty underwent professional development programs during the last four years

Faculty Development Programs	Number of faculty attended
Induction programs	1410
Re-orientation programs	2376
Refresher courses	1152
Capacity building programs	988
Programs by regulatory / apex bodies	314
Total	6240

2.4.8 How often does the institution organize academic development programs (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process?

Initiation:

- The University has a well-established University Department of Education for Health Professionals (UDEHP). It conducts in accordance with its own calendar of Events, several programmes for the benefit of staff members and students.
- The JNMC –DOME recognized by the MCI as **regional center** for training in basic medical education technology.

Sustenance:

- All the constituent units of the University have well-established continuing education departments which organize development programs regularly on various academic issues like, curriculum development, reforms in curriculum, and newer trends in curriculum, teaching-learning methods like integrated teaching, newer modalities in teaching, examination reforms and content / knowledge management.
- Each constituent unit has Scientific Society for which monthly meetings are held where all the faculty members of the college participate. Also, through these societies CME's are conducted for the local practitioners by the faculty.
- Faculties are deputed to other well-recognized institutes for training in teaching-learning processes.

Enhancement:

- The JNMC –DOME recognized by the MCI as **Nodal training Center** organizes advanced Medical Education Technology (MET) Workshops for 39 medical college faculty of 4 states (Karnataka, Goa, Andhra & Telangana).
- KLE College of Pharmacy, Belagavi is recognized as National Center for QIP by All India Center for Technical Education (AICTE).
- Teaching-learning process is enriched by knowledge management efforts of the University, primarily focusing on organizational objectives in order to improve performance, innovation, sharing of knowledge, integration and continuous improvement.

2.4.9 Does the institution have a mechanism to retain faculty ? What is the annual attrition rate among the faculty ?

Yes

Nearly 50% of faculties in medical and dental and around 20% of faculties in other disciplines of the University have been serving for more than two decades which is one of the greatest assets of the University.

- Several employee welfare measures like Health Insurance Scheme, reservation and concessional education to the children of the employees, loans from the Co-operative Society, etc. are important mechanisms to retain faculty.
- Encourages staff members to carryout research by providing them infrastructural facilities, as well as, funds, thus creating a scientific temperament. Recognition is given to faculty by providing incentives for their publications and paper presentations at various fora.
- The institution provides infrastructure facilities like staff quarters, baby crèche, and transportation facility for children, fitness facilities like gymnasium, swimming pool, indoor stadium, food courts, nationalized bank and post office, etc. within the campus.
- Leave is also granted for pursuing higher studies.
- The annual attrition rate among faculty is less than 5%.

2.4.10 Does the institution have a mechanism to encourage

*** mobility of faculty between institutions /universities for teaching / research ?**

*** faculty exchange programs with national and international bodies ?**

If yes, how have these schemes helped in enriching the quality of the faculty ?

Yes

Initiation:

- Mobility of faculty between the institutes/Universities and faculty exchange programs to national and international bodies have provided the faculty with the opportunities to excel in teaching and research. It has also exposed the faculty to culturally varied and diverse faculty makeup with an opportunity to exchange ideas and observe variety of styles, new concepts and ideas.

Sustenance:

- The University has a tie-up with University of Illinois, Chicago through which our faculties have undergone training in medical education, and other areas of specialization like neonatology, pediatric intensive care, oncology, perinatology, etc.
- Post Graduate Diploma in Health Profession Education (PGDHPE) is offered with academic inputs from the faculty of University of Illinois, Chicago.
- Institution has established an Agreement between University of East Anglia, UK, funded by UK-India Education and Research Initiative (UKIERI) through British Council which awards the grant for the purpose of conducting activities under UKIERI Institutional Capacity Building proposal, eg: enhancing midwifery and neonatal care through capacity building of midwifery lecturers.
- The MoUs established with Rhodes University and Goa College of Pharmacy have provision for exchange of faculty members.
- These schemes have helped the faculty to enrich their academic and research knowledge and adopt the recent trends in higher education.

Enhancement:

- The faculty members are encouraged to visit the Universities abroad and faculties from other Universities are invited for research, exchange of knowledge and skill.
- The University has provision for sabbatical leave and study leave for the faculty.
- Some of the programs like PGDHPE, MPH, and Research Mentorship, etc. have international faculty on roll.
- Mobility of faculty to foreign Universities for Ph.D program has been initiated.
- Postgraduates are also posted for short certificate course / training to national institutions for their research projects.

2.4.11 Does the institution have well defined career advancement policy for Health Science professionals? If yes, outline the policy.

Yes

- The Career Advancement Scheme (CAS) of UGC was introduced in 2007.

- As per the career advancement policy of the University, an excess of up to 33% of the sanctioned posts are promoted on the basis of eligibility and merit. This is done once in a year wherein applications are called for the posts, scrutinized, and eligible candidates are interviewed, and promoted as per the UGC norms.
- The existing vacancy is calculated on the basis of total approved strength for the institution.
- The applications from eligible teachers are invited by the University through proper channel. The applications are scrutinized by the Committee of Experts constituted by the Vice-Chancellor. The Vice-Chancellor gets the research contributions of eligible candidate assessed by 2-3 external experts confidentially. Only those candidates who are recommended by the experts are called for personal interview. The selection of the candidates is based on the performance in interview, academic records, experience and other criteria laid down by the University.
- The Selection Committee is chaired by the Vice-Chancellor and two subject experts are invited.
- Those faculty against whom disciplinary action has been taken for their negligence in teaching and evaluation process, as reported by the Competent Authority, are not considered for CAS.

2.4.12 How does the institution create synergies with other PG institutes for generating required number of specialists and super specialists ?

The University has created synergies with other postgraduate institutes to promote the development of research relationships. This has fostered the training and development provided to the postgraduate students.

- The University has number of postgraduate programs and diplomas in various subjects, conducted as per the guidelines of University and regulatory bodies, which create synergies with other PG institutes for generating required number of specialists and super specialists.
- National-level postgraduate exchange programmes are available in some departments.
- International/ National collaborations MoUs are established with 300 agencies for academic and professional inputs. The MoUs and Collaborations with reputed national and international agencies / organizations / Universities have developed in newer arena for strengthening teaching-learning and research. This has facilitated increase in the number of specialists and super-specialists.

2.4.13 Does the institution conduct capacity building programs / courses in subspecialties for its faculty ?

Yes

The University has conducted 988 capacity building programs / courses for the faculty in the last 4 years. The programs conducted regularly for capacity building have enhanced the teaching and research abilities of the faculty.

2.5 Evaluation Process and Reforms**2.5.1 How does the institution ensure that all the stakeholders are aware of the evaluation processes that are in place ?**

Every academic programme of the University has a well-structured syllabus including the evaluation process. The Academic Calendar of each course is provided to the students.

- The students are duly kept informed about the structure of the examinations, continuous internal assessment, tutorials, dates of terminal, preliminary and end examination. These are included in the Academic Calendar of the University.
- The scheme of examination is described in the syllabus which is made available to all the students and parents. Internal assessment tests and prelims are conducted as per the Academic Calendar.
- The UG and PG orientation programmes are conducted and information on evaluation process is conveyed.
- The results are announced through website, and notifications The performance report is made available to the students and parents and displayed on the notice boards.
- The Internal Assessment has a weightage of 20% of the total marks in theory and practicals and the same are notified before commencement of University examination. 80% weightage is given to University examination.
- Facilities for verification of the marks and photocopies of valued answer scripts are made available to the students on request.
- Teachers are well trained for evaluation methods.
- The examination branch of University has adopted method of informing results to various stakeholders through SMS and e-mail system which is an innovative practice.

2.5.2 What are the important examination reforms implemented by the institution? Cite a few examples which have positively impacted the examination system.

Following examination reforms have been successfully implemented

- a. Bio-metric identification for UG and PG KLE All India Entrance
- b. Work of examination section is computerized. This facilitates declaration of results within 15 working days from the last date of examination. This has facilitated smooth conduct of academic session.
- c. Introduction of OSCE, OSPE and OSLM for medical courses.
- d. MCQs in University examination have up to 15-25% weightage and are on OCR sheets.
- e. The examination branch of University has adopted method of informing results to various stakeholders through SMS and email system which is an innovative practice.
- f. CCTV in examination halls and mobile jammers. Least number of cases of malpractices.
- g. Flying squads visit examination halls regularly and the examination work is taken very seriously by the administration.
- h. Introduction of semester system of examination for B.Pharm, Master of Hospital Administration and MPH courses.
- i. Double valuation and provision of third valuation for UG. Four valuations for PG degree, diploma and subspecialties. Three external examiners are appointed for evaluation of Ph.D thesis.
- j. Question paper moderation is compulsory. No complaints registered against question papers so far.
- k. Continuous Internal Assessment with 20% weightage.
- l. Three parallel and independent question paper sets.
- m. Separate dates and time for paper valuation by internal and external examiners.
- n. Provision for retotaling and supply of photocopy of answer paper if requested.
- o. Introduction of dissertation for M.Sc. medical courses.

2.5.3 What is the average time taken by the university for declaration of examination results ? In case of delay, what measures have been taken to address them ? Indicate the mode adopted by the institution for the publication of examination results (e.g. website, SMS, email, etc.).

- The results of all the examinations are declared **within 15 working days** from the last date of examinations, and the same are communicated to the students via e-mail, through newspaper notification and website.
- Till now, there has been no inordinate delay in declaration of results.
- University has adopted innovative method of informing results to various stakeholders through SMS system.

2.5.4 How does the institution ensure transparency in the evaluation process ?

The entire evaluation process is transparent right from admission to certification.

- (i) The central evaluation system is undertaken under the CCTV surveillance.
- (ii) Bar-coded answer scripts and OCR sheets for MCQ's and entrance examinations.
- (iii) Examination section of the University maintains high degree of confidentiality and transparency, wherever required.
- (iv) External Chief Supervisors are appointed from other Universities to oversee the examination process.
- (v) Invigilators are appointed from other disciplines.
- (vi) CCTV in examination halls and mobile jammers.
- (vii) Work of examination section is computerized. This facilitates declarations of results within 15 working days from the last date of examination.
- (viii) Facilities like verification of the marks and photocopies of valued answer scripts are made available to the students on request.
- (ix) Disciplinary Committee to deal with the issues of examination malpractice.
- (x) The continuous internal assessment marks are informed to the students prior to summative examination.

2.5.5 What are the rigorous features introduced by the university to ensure confidentiality in the conduct of the examinations?**Initiation:**

The examination section of the University has designed and introduced many rigorous features to ensure confidentiality in the conduct of the examinations.

Sustenance:

- a. Use of biometric techniques for identification of student for AICET.
- b. Allotment of PRN and Seat Numbers
- c. Printing of admit cards with photographs.
- d. Theory and practical evaluation of each student takes place separately by individual examiners.
- e. Orders for Internal examiner are issued just one week prior to the practical examination.
- f. The University directly communicates with external examiners avoiding scope for interaction with internal examiner or institutional head.
- g. Three parallel and independent question paper sets.
- h. Synopsis and postgraduate dissertation evaluation by external examiners
- i. Printing of statement of marks and degree certificates is done efficiently.
- j. External observers are appointed from outside Universities that prevents malpractices.
- k. Ph.D thesis evaluation is done by three external examiners from outside states.

2.5.6 Does the institution have an integrated examination platform for the following processes ?

- * **pre-examination processes – Time table generation, hall ticket, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, online transmission of questions and marks, etc.**
- * **examination process – Examination material management, logistics, etc.**
- * **post-examination process – Attendance capture, OMR-based exam result, auto processing, result processing, certification, etc.**

Yes

The integrated examination platform for pre-examination, examination and post-examination process is computerized, and directly under the supervision of Controller of Examinations (COE).

Pre-examination processes:

- In the pre-examination process, the schedule and time-table of examinations of different disciplines are prepared and notified to the student's at least two months in advance. The details regarding payment of the examination fees and the time-table are prepared, keeping in view the schedule of examination.
- The list of students appearing for examinations is generated and based on the strength of the students, the number of invigilators required is calculated and staff members preferably from other colleges are appointed as invigilators.
- The Principal who is officiating as Chief Superintendent, along with members of the examination committee ensures smooth conduct of the examination. Attendance sheets are prepared for each examination hall separately.
- The squads / flying observers are appointed by the COE from amongst the faculty members of sister Universities or institutions.
- The Controller of Examinations Office supplies bar-coded answer books for each session along with the question papers to the Deputy Chief superintendent.
- The integrity of the seal of question paper packet is confirmed by randomly selected three students in the examination hall.
- The invigilators distribute the answer books and the necessary question papers to the students, which is verified and signed for correctness by subject experts, soon after the commencement of examination.

- Attendance is noted along with the verification of the hall tickets. No student is allowed into the hall after 30 minutes of the commencement of the examinations.
- Once the student completes the examination, answer scripts are collected by the invigilator and handed over to the Chief Superintendent, which in-turn are submitted to examination branch of the University within two hours of the conclusion of the examination.
- Confidentiality is maintained in appointment process of the examiners.

Examination process:

- The University appoints designated staff for the management of all the examination material and logistics support. Strict confidentiality is maintained at all times. Logistics and examination material management is done by faculty appointed by University for the entrance examinations (UGAIET and PGAIET) that are conducted at 17 centers in the country.

Post-examination process:

- The biometric system is used for attendance capture and student identity verification at the time of entrance examination, and also during the admission counseling. The MCQ answer sheets are OMR-based and are subjected to auto-processing and evaluation. The exam result, result processing and certification are computerized.
- The answer sheets are preserved for minimum of two years following which they are shredded.
- Latest information technology (scanning/imaging softwares) is used to handle massive application data, issue of admit cards, scanning facility and support to post-examination activities to achieve accuracy.

2.5.7 Has the university / institution introduced any reforms in its evaluation process?

Yes

Initiation:

The reforms introduced in evaluation process of University have ensured that the educational objectives are met with and both, absolute and relative connotation of quality and confidentiality, are achieved.

Sustenance:

- MCQ system is introduced in the first half an hour of annual examination for all the UG programmes (15-25% weightage).
- Question bank for validated MCQ's is maintained.
- In double valuation, if variation is more than 20%, the answer scripts are subjected for 3rd valuation.
- The grace marks are given as per the Bye-Laws BL 535 and rules of regulatory bodies.
- OSCE/OSPE is practiced in internal examination.
- The identity of candidate and guide is masked before evaluation, to maintain confidentiality in PG dissertations.
- Degree certificates and marks card have eighteen security features.

Enhancement:

- Semester system of evaluation is practiced in B.Pharm, MPH, M.Sc. in Clinical Research and PG Diploma in Public Relations.
- Three external evaluators are appointed for Ph.D thesis.
- Pedagogy has been introduced as part of practical examination.
- Clinical evaluation process is introduced in the discipline of nursing.
- Dissertation work is introduced for M.Sc. medical programmes.

2.5.8 What is the mechanism for redressal of grievances with reference to examinations? Give details.**Initiation:**

The University has Grievance Redressal Committee that looks into the issues of grievances with reference to examinations. In addition, examination branch has Disciplinary Committee and Unfair Means Committee to deal with malpractice issues. These Committees are constituted in accordance with provisions of the Bye-Laws of the University.

Sustenance:

- The aggrieved student can approach the Controller of Examinations through proper channel.
- The University has made provision for students to obtain the photocopy of valued answer script, when asked for.

The detailed scheme is prepared under Rule No.26 (g) of MoA, 2006

- (1) The facility of obtaining photo copy(ies) of assessed and/or moderated answer book(s) by the candidate(s) is/are extended with a view to bring transparency in the conduct of examination and ensure its credibility.
- (2) This facility, provided, shall be restricted to theory papers only.
- (3) The photocopy (ies) of answer book(s) of practical examination, sessional marks, viva-voce, dissertation and thesis shall not be supplied to the candidate(s). The photocopy (ies) shall be supplied on the payment of non-refundable fee which shall be decided by the University, from time to time by cash or by DD drawn in favour of the Registrar.
- (4) The prescribed application form for obtaining the photocopy of answer book can be obtained from the examination division.
- (5) The candidate shall fill-up the prescribed application form for obtaining photocopy of answer book and sign and submit to the Controller of Examinations or an officer authorized to receive it within fifteen days from the date of the declaration of general result of the examination. Incomplete form shall be rejected without assigning any reason and the fees paid alongwith the application form shall not be refunded.
- (6) The University shall endeavour to supply photocopy of answer books within twenty one days from the date of receipt of application.
- (7) The photocopy shall be supplied only to the candidate and not to any other person.
- (8) For obtaining the photocopy (ies) of the answer book(s), candidate will have to submit his application through the Head of the University Department or Principal along with authenticated/attested copy of the identity card and hall ticket.
- (9) On receipt of photocopy (ies), the candidate shall be the sole custodian of it and under no circumstances he shall transfer the same to any other person or for any other purpose(s).
- (10) The photocopy (ies) so obtained by the candidate shall be for his personal use. If the candidate so desires, he can use it only for the purpose of getting the redressal of the grievances through the redressal mechanism provided by the University under these Bye-Laws.

- (11) If the candidate is found guilty of indulging in any unfair act/attempt, he shall be liable to be tried before the Committee constituted under Bye-Law and the decision of Board of Examinations based on the recommendation of said Committee shall be final.
- (12) If his indulgence/commission in unfair act/attempt is proved, the candidate shall be liable for the punishment which shall include: (i) cancellation of his appeal before the Redressal Committee and in case the appeal is favourably decided, such decision shall stand revoked, (ii) annulment of examination(s) for a stipulated period of maximum up to five examinations and (iii) cancellation of his result of the examination.
- (13) While obtaining the photocopy (ies) of answer book(s), the candidate shall have to submit application in prescribed form.
- (14) On receipt of photocopy (ies) of desired answer book(s), if the candidate is not satisfied with the marks awarded to him by the original examiner or in accordance with relevant Bye-Laws, he may apply for redressal of grievance to the Controller of Examinations in the prescribed form, challenging the valuation done.
- (15) The prescribed form for redressal of grievances regarding valuation of answer books can be obtained from the examination division.
- (16) The candidate shall have to mention clearly in the application form, the reasons of his grievances and specify clearly the question-wise his points of objection to the valuation done with proper justification.
- (17) The prescribed application form duly filled in shall be accompanied by a fee which shall be decided by the University; from time to time, per paper payable in cash at the University office along with the certified photocopy of mark list.
- (18) The candidate shall fill up and sign prescribed application form and submit the same to the Controller of Examinations within seven days from the date of the receipt of the concerned photocopy. Incomplete application form(s) in any respect shall be rejected without assigning any reason and the fees paid along with the application form shall not be refunded.
- (19) The application for redressal of grievances received after the last date shall not be accepted under any circumstances, whatsoever.

- (20) The application(s) for redressal of grievances, so received shall be placed before the Redressal Committee, consisting of the following:
 - (a) Dean of the faculty concerned: - Chairman
 - (b) Chairman of the Board of Studies - Member in the subject concerned;
 - (c) One teacher having twenty years of teaching experience in the subject/paper, nominated by the Vice-Chancellor; - Member
 - (d) The Controller of Examinations - Secretary
- (21) No person shall be nominated on such Committee whose near relative's case is being heard.
- (22) The presence of subject expert in the meeting of Redressal Committee shall be mandatory.
- (23) The Controller of Examinations shall convene the meeting in the subject concerned and place all the answer books of the subject concerned.
- (24) The Committee, shall verify the original answer book(s) and photocopy (ies) of the same and evaluate the mark(s) allotted to the answer(s) in the light of the reasons of the grievance and the claims of the candidates and shall make specific recommendations in writing, as to whether the claims of the candidates have any merit and thereby, justifies re-assessment or the claims are baseless and deserve to be rejected. The decision of the Committee shall be final.
- (25) Subject-wise/paper-wise answer books recommended for reassessment by the Committee shall be assessed centrally by masking the identity of the candidate and marks given by the first examiner.
- (26) These answer books shall be assessed by other senior teacher who has more than twenty years teaching experience for paper concerned.
- (27) After the assessment of the papers, the same shall be moderated as per these Bye-Laws.
- (28) The marks given by the moderators shall be placed before the Committee and after the meeting of the Committee, the same shall be Communicated to the candidate and the Principal or Head of the University Department.

- (29) In case original marks are changed, University shall supply fresh statement of marks to the candidate after receipt of the original mark list. Original mark list after making necessary entry shall be shredded by the Controller of Examinations.
- (30) The process of redressal of grievances shall be completed, as far as possible, within a period of thirty days from the date of the receipt of application for redressal of grievances.
- (31) The photocopy (ies) of the answer books, re-assessed by the subsequent examiner(s) shall not be supplied to the candidate.
- (32) The proceedings of the Committee shall be placed before the Board of Examinations along with its specific recommendations about the examiners, if any, for further action.

Enhancement:

- Provision for students to avail scribe facility.
- Wheelchair facility is provided for the disabled students.

2.5.9 Does the institution have a Manual for Examinations and if yes, does it specifically take cognizance of examination malpractices by students, faculty and non-teaching staff?

Yes, the University has comprehensive manual for examinations that specifically cites rules and regulations regarding malpractice and its consequences for the knowledge of faculty, students and non-teaching staff. The responsibilities and functions of the Unfair Means Committee are described in the Bye-Laws No. BL536 – BL538.

The examinations are conducted under strict supervision and external observers are appointed from outside the University. The instances of malpractices in the examination by students are brought to the notice of the “Disciplinary Committee” constituted by the Vice-Chancellor. The recommendations of this Committee are placed before the Board of Examinations for necessary action.

The information related to malpractice is available on University website. The cases of malpractices have been dealt with strict disciplinary action as per the Bye-Laws.

2.5.10 What efforts have been made by the university to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division / section.

Initiation:

The operations at the Office of the Controller of Examinations are stakeholder-centered, innovative and efficient. The function of the examination division is to provide high quality services in addition to making data available on all examinations conducted. This activity is conducted under expert guidance of highest ranking executive of the University.

Sustenance:

- The Office of the Controller of Examinations is computerized, well-equipped with sufficient human resource that helps to streamline the operations at examination branch.
- The Vice-Chancellor chooses question paper from moderated set of question papers.
- The confidential works of printing and sealing question paper is done strictly under the supervision of the Controller of Examinations in strong room.
- The University follows the central assessment method for evaluation of answer scripts.
- The Controller of Examinations is responsible for the Central Assessment Programme as laid down in Bye-Laws No. BL529. The detail scheme is laid down in Bye-Laws No. BL528

Central Assessment Programme (CAP) Centre

- (a) Answer books of all examinations shall be assessed only at the centers of Central Assessment Programme (CAP).
- (b) The Controller of Examinations shall appoint the CAP Director, Assistant Director and other supporting staff.
- (c) CAP shall be organized in the premises of the University under the direct control of the Controller of Examinations.
- (d) The CAP shall consist of the following three stages:
 - (i) Pre-Assessment Work
 - (ii) Assessment and Moderation Process
 - (iii) Post Assessment Work

Pre-Assessment Work

- (a) To identify the venue of the CAP: The venue of the CAP shall be on the University premises.
- (b) Invitation to Examiners/Moderators:
The Controller of Examinations shall appoint required number of the moderators and examiners and shall send invitation letters to all the examiners and moderators well in advance, so as to enable the examiners and moderators to communicate their acceptance.
- (c) Collection of Answer books:
The senior supervisor shall send the answer books to the CAP Director per messenger as per the direction given by the Controller of Examinations.
- (d) Preparation for CAP:
 - (i) The Director of CAP shall make adequate arrangements to receive answer books from examination centers, from time to time.
 - (ii) On receipt of the answer books at the CAP centre, the staff employed for this work shall check the number of answer books, invigilator's reports and ascertain as to whether the number of candidates present and absent indicated in the report are correct.
 - (iii) After verifying the number of answer books, the CAP Director shall make the bundles of answer books consisting of 25 answer books each with blank marklist. The invigilator's reports shall be kept in the separate file.
- (i) The bundle of answer books so prepared shall be computer coded and masked. The blank mark list against the coded number shall be kept on the answer bundle.

Assessment and Moderation of Answer Books:

- (a) Before the actual assessment work starts, the moderator shall discuss in detail the model answers and scheme of marking with the examiners.
- (b) After the meeting, he shall give five answer books to each examiner and after the assessment of these answer books, he shall moderate these answer books and give suitable instructions to the examiners.

- (c) Thereafter, the moderator shall moderate the answer books assessed by the examiner, as per the scheme mentioned below:
- (i) All the answer books wherein candidate has failed by five marks;
 - (ii) All the answer books where candidates have scored more than 80% marks
 - (iii) Random 5% remaining answer books
 - (iv) 100% scrutiny of the answer books for totaling and ensuring that there is no answer left unassessed.

Enhancement:

- The Office of Controller of Examinations is adequately manned by full-time dedicated staff and the entire functioning is streamlined.
- The office documents are secured under strict administration.
- The evaluation section has CCTV surveillance and is a mobile-free zone.
- Access is restricted to examination section.

2.5.11 What are the efforts of the institution in the assessment of educational outcomes of its students? Give examples against the practices indicated below :

- * Compatibility of education objectives and learning methods with assessment principles, methods and practices.
- * Balance between formative and summative assessments.
- * Increasing objectivity in formative assessments.
- * Formative (theory / orals / clinical / practical) internal assessment; choice based credit system; grading / marking.
- * Summative (theory / orals / clinical / practical).
- * Theory – structure and setting of question papers – Essays, long answers, shorts answers and MCQs etc. Questions bank and Key answers.
- * Objective Structured Clinical Examination (OSCE).
- * Objective Structured Practical Examination (OSPE).
- * Any other.

The progressive change in pedagogical models, ideas and also the assessment of education, as compared to the traditional training, has been beneficial to the students in providing student-centered learning.

- **Compatibility of education objectives and learning methods with assessment principles, methods and practices.**

- (i) Knowledge, skills and attitudes are taught to the students by didactic lectures, small group interactive sessions, integrated teaching, tutorials, seminars, symposia, practical, clinical case discussions, operative demonstrations, community field visits, health camps, guest lectures, workshops, CMEs, conferences, etc.
- (ii) The patient care is learnt by the students in their clinical postings.
- (iii) The ethical, socio-cultural and behavioural aspects of health science are imparted in the orientation programmes.
- (iv) Sessional examinations at regular interval and continuous evaluations measure acquired knowledge.
- (v) Practical skills are evaluated through OSCE/OSPE.
- (vi) Community-oriented education imparted is assessed through specially designed practical evaluation.
- (vii) Newly appointed teachers are oriented towards education objective and learning methods with assessment principles by UDEHP.

- **Balance between formative and summative assessments.**

- (i) The formative assessment gives the feedback on students' performance, which either helps to improvise or sustain the performance of students in summative assessment.
 - Unit-wise assessment in internal examination and preliminary examination provides enough exposure to students to face summative examination.
 - 20% weightage is given for formative assessment and 80% marks are for summative assessment.

- **Increasing objectivity in formative assessments.**

- The structured design of the theory question papers is aimed at increasing objectivity.
- Through introduction of MCQs, OSCE and OSPE, the objectivity of formative assessment is increased.

- **Formative (theory / orals / clinical / practical) internal assessment; choice based credit system; grading / marking.**
 - All the constituent units conduct regular formative (theory / orals / clinical / practical) internal assessment and the students are made aware of the marks obtained. This method also helps to give extra training to slow learners, so as to perform better in summative assessment.

- **Summative (theory / orals / clinical / practical).**
 - The University conducts Summative examination (theory/orals/clinical/practical) to assess the overall knowledge and skill acquired by the students during the academic year/semester.
 - Based on the results of which the student will be allowed to progress to the next class.
 - 40-50% is the minimum passing percentage; 60 to 74.9 % is first class, 75 and above is distinction depending on the programme. The Viva-voce marks are added to theory. Passing both in theory and clinical/practical examinations separately is mandatory.

- **Theory – structure and setting of question papers – Essays, long answers, shorts answers and MCQs, etc. Questions bank and Key answers.**
 - The structured question paper bank contains long essays, short essay, short answers and MCQs. The question bank is available in all subjects in respective department of constituent units of the University.

- **Objective Structured Clinical Examination (OSCE).**
 - One of the internal assessments is in the form of OSCE.

- **Objective Structured Practical Examination (OSPE).**
 - One of the internal assessments is in the form of OSPE. The OSCE/OSPE stations are planned to test various components like, communication skills, interpretation skills, memory recall, clinical skills, problem-solving skills, etc. Generally, 10 to 12 stations are prepared in every subject /exam.

- **Any other**

- One of the internal assessments is in the form of MCQs which trains students to perform better in summative exam and in entrance tests for higher studies.
- The assessment of students schooled in the University focuses on utilizing standardized assessment tools. The qualified students are very well placed at national and international levels.

2.5.12 Describe the methods of prevention of malpractice, and mention the number of cases reported and how are they dealt with ?

The methods of prevention of malpractices adopted by the University are to safeguard the sanctity of health care profession. The University has stayed abreast with newer technologies of malpractice adopted by students.

- All the examination halls are under CCTV surveillance.
- Mobile phone jammers are installed.
- Students are informed about consequences of malpractices.
- The examinations are conducted under strict supervision and external observers are appointed from outside Universities.
- In last 4 years, 29 cases of malpractices were reported and students were penalized in accordance with Bye-Laws of University after thorough enquiry by Disciplinary Committee, which includes punishments like annulment of the examination, exclusion of the candidate from examination for one additional examination, withholding of result, fine and declaration after an apology letter and fine by the candidate.
- The manual for conduct of examinations includes the consequences of malpractices.

2.6. Student Performance and Learning Outcomes

2.6.1 Has the institution articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?

Yes

Initiation:

The University strategic plan has articulated graduate attributes in terms of academics, social responsibility, research and employability.

Sustenance:

- The graduates are trained during their course period, not only for academics and research, but also for community-orientated education and service, through free health check-up camps, poster exhibitions, NSS programs like blood donation, plantation of trees, health awareness rallies and talks.
- The students are encouraged to participate in activities like sports, cultural programs, participation in debate/seminar/conferences/quiz, etc. through the University Department of Student's Welfare.
- Career guidance of the students is facilitated through Placement Cell of the University which is instrumental in conducting workshops on topics like how to face an interview, resume-writing, how to pursue higher education and job opportunities abroad, orientation for civil service examination, etc. The constituent units also conduct campus interviews by different industries, organizations that facilitate and monitor implementation of graduate attributes.
- Outcome is also monitored through its alumni placement, which is recorded by the Alumni Associations of different constituent units.
- Spiritual and national integrity attributes of the students are also taken care of by arranging guest lectures and workshops on yoga and spirituality.
- During the orientation program of the newly inducted students, the objectives and attributes of graduate health education are informed by the Head of the Institutions.

Enhancement:

- The University promotes participation of graduates in state, national and international inter-university sports / cultural meets / students parliament, etc.
- University has vibrant NSS unit and Youth Red Cross Wing organizing wide spectrum of activities involving student volunteers.
- University has schemes and awards like “Earn while you learn”, scholarships for women and physically challenged.
- University has introduced Diploma in Value Education and Spirituality, for value addition to quality of education imparted.

2.6.2 Does the institution have clearly stated learning outcomes for its academic programs/departments? If yes, give details on how the students and staff are made aware of these?**Yes**

University has clearly stated learning outcome for all its academic programs which are based on the contemporary needs of the students to bridge the gap in their knowledge, skills and attitudes.

- The brochure, prospectus of the constituent colleges and website of University display learning outcomes of all the departments and are updated regularly.
- The orientation programme by UDEHP for newly recruited faculty highlights the learning outcomes for its academic programs. In last four years, 40 faculty orientation programmes have been conducted.
- In the constituent units, Heads of the Institutions / Heads of the Departments emphasize on learning outcome of the academic programs during the orientation programs for undergraduates and postgraduates at the beginning of the academic session.
- Lesson plan booklets also help to bring awareness on learning outcome to the students.
- In the “*Vision-2020 Document*”, the University envisages to enhance the learning outcome of several academic programs in a futuristic way.

2.6.3 How are the institution's teaching-learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes ?**Initiation:**

University constantly facilitates innovative strategies of teaching-learning and assessment using recent technology in order to meet the global standard of education, and keeping in mind its learning outcomes stated in “*Vision-2020 Document*”.

Sustenance:

- The teaching-learning process is learner-centric which enables the students to become lifelong self-directed learners. Every effort is made to ensure that the teaching-learning process is interactive, interesting and meaningful.
- Some of the participatory methods adopted by the University are practical demonstrations, case studies, debate, group discussion, home

assignments, seminars, field trips, posting in primary, rural and urban health centers, literature surveys, street plays, health survey projects and dissertations.

- Teaching-learning strategies are facilitated through well-equipped lecture halls, laboratories, good hospital set-up, good library facilities, audio-visual aids, industry interaction and training, project works, tutorials / seminars/ journal clubs.
- Teaching-learning is facilitated through community-oriented programs like health education, health check-up camps, awareness talks and NSS activities like blood donation, World Health Day celebration, adoption of villages for comprehensive development, etc.
- Compatibility of education objectives and learning methods with assessment principles, methods and practices. Such as MCQ's, short essays and long essays.
- Balance between formative and summative evaluations help to achieve intended learning outcomes. Three internal examinations, one preliminary tests exam and final examination are conducted. Summative assessment for all the programs has well-planned scheme of examination with mark distribution based on the learning objectives projected in the syllabus.

Enhancement:

- UDEHP conducts innovative teaching-learning and assessment workshops / orientation programs / induction programs for its faculty. In the last four years, UDEHP has conducted 110 faculty development programmes
- Teachers themselves have become in-house experts in specific practices which are shared with colleagues and students.
- The University has adopted OSCE, OSPE and OSLM as a part of the learning process and method of evaluation for formative examination.
- Semester system of evaluation has facilitated in achieving better learning outcomes.
- SOP's are available in all departments for various procedures.

2.6.4 How does the institution ensure that the stated learning outcomes have been achieved?

Initiation:

The achievement of learning outcomes of University is ensured by its specific, clearly-expressed and understandable statements. The University has

also been receptive to feedback on quality and effectiveness regarding its learning outcomes.

Sustenance:

- Examination results – both formative and summative.
- Alumni placement record.
- Employability at national and international level.
- High percentage of recruitment of students for higher studies at national and international level.
- Awards / recognitions won by staff and students in various academic, research, curricular and extracurricular platforms at state, national and international levels.
- Feedback by students/alumni/external examiners on teaching-learning and evaluation methods adopted by the constituent units and the University.
- Positive feedback from students on course content, infrastructure facility and teacher quality.
- Attainment of high positions by faculty or alumni in regulatory bodies, statutory bodies, national and international agencies / associations.
- High esteem of university is reflected by the continued patronage from industry and institutions.

Enhancement:

The following attainments have enhanced the quality of education imparted by the constituent units.

- a. The University is placed in ‘A’ Category by Ministry of Human Resource Development (MHRD), Government of India (GoI).
- b. NABL accreditation of laboratory.
- c. Most of the constituent units are ranked among the top Institutes of the country.
- d. All 3 Pharmacy colleges are accredited by National Board of Accreditation (NBA).
- e. GMP certified teaching pharmacy and AYUSH certified central research facility provided in college of Ayurveda.
- f. Increased number of research publications in journals with high impact factor.

- g. Increased number and amount of research grants received by faculty from national and international agencies.
- h. Chapter contribution by faculty in books /monographs, etc.
- i. Increased number of patents filed and obtained by faculty and students.

Any other information regarding Teaching-Learning and Evaluation which the institution would like to include.

1. **“Vision-2020 Document”:** “Vision-2020 Document” of the University is prepared and is approved by the Planning and Monitoring Board and the Board of Management. This document contains immediate goals, short-term and long-term goals, and perspective plan of development of the University.
2. **Calendar of Events:** Calendar of Events of the University is prepared and published every year, which gives the dates of major events, meetings of the Authorities and Bodies of the University, and year long curricular, co-curricular and extracurricular activities.
3. Excellent museums of Pathology, Forensic Medicine and anatomy are important sources of medicine. The pathology museum has attained global recognition for its quality.
4. **Skill training:** Clinical skill training enhancement for students at clinical skill laboratory in teaching hospital. It has latest equipments with advanced technology, simulators and mannequins. It has well-planned calendar of events for the entire year.
5. **Research Facility:** Availability of State-of-Art research facility for teaching-learning process of postgraduates, Ph. D research scholars and faculty at Basic Science Research Centers (in campus and off-campus) and Research Foundation of University.
6. **Admission:** Admissions to different courses are based on the inter-se merit of the candidate in AIET (UGAIET, PGAIET). AIET is conducted at many centers across the country. **Minimum human intervention is ensured in conduct of AIET.**
7. **Teachers Diary:** Every teacher in the University does lesson planning in advance depending on the number of teaching hours at his/her disposal. The Heads of the Departments and Principals monitor the teaching plan.

8. **Catering to the diverse needs of the learners:** Presently, the University is offering 163 academic programmes. The salient features of academic programs offered are as follows:

- Adoption of good clinical practice.
- Inter-department clinical case presentations
- Multi-disciplinary programs.
- Integrated teaching.
- Interdisciplinary seminars for postgraduates.
- Grand rounds by faculty with postgraduates and interns.
- Lesson plan and lesson material.
- Log books and work diaries for students.
- Structured and validated format for evaluation of slow and advanced learners.

CRITERION III

RESEARCH, CONSULTANCY & EXTENSION



CRITERION III :

RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Is there an Institutional Research Committee which monitors and addresses issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes

Initiation:

- The mission of the University has been to make research a significant activity involving faculty, students and other stakeholders of education.
- The Bye-Laws were prepared under Rule No. 4 (vii) of MoA 2006 that provide constitution and composition of Research Committee.
- The research committee has a system for the appropriate supervision and monitoring of the conduct of research.

Sustenance:

University has seven Research Committees and the composition of each is as per the Bye-laws of University and guidelines prescribed by ICMR and CPCSEA.

- Basic sciences and clinical research and clinical trials are carried out by all the constituent units, Research Foundation, Site Management Office and Basic Sciences Research Centers.

Following are the details of Committees that monitor research:

1. Board of Postgraduate Teaching & Research
2. Research and Recognition Committee (RRC)
3. University Research Co-ordination & Monitoring Committee (URC&MC)
4. Site Management Office Committee (SMO)
5. Institutional Ethics Committee – Schedule Y (EC)
6. Ph.D Ethics Committee for Human Research
7. University Animal Ethics Committee

1. Board of Post-Graduate Teaching and Research of the University

Sl. No.	Names	Designation
1.	Vice-Chancellor, KLE Academy of Higher Education and Research, Belagavi.	Chairman
2.	Dean of Faculty (Medicine)	Member
3.	Dean of Faculty (Dentistry)	Member
4.	Dean of Faculty (Pharmacy)	Member
5.	Dean of Faculty (Ayurveda)	Member
6.	Dr. B.S.Kodkany, Director, KLE University Research Foundation, Belagavi.	Member
7.	Deputy Director, KLE Dr. Prabhakar Kore Basic & Applied Science Research Center, Belagavi.	Member
8.	Dr. Subarna Roy, M.Sc., Ph.D Officer Incharge, (ICMR) RMRC, Belagavi	Member
9.	Director, Academic Affairs, KLE Academy of Higher Education and Research, Belagavi	Member
10.	Registrar, KLE Academy of Higher Education and Research, Belagavi.	Member-Secretary
11.	The Co-ordinator (IQAC) KLE Academy of Higher Education and Research, Belagavi	Invitee
12.	The Assistant Co-ordinator (IQAC) KLE Academy of Higher Education and Research, Belagavi	Invitee

2. University Research and Recognition Committee

Sl. No.	Names	Designation
1.	Vice-Chancellor, KLE Academy of Higher Education and Research, Belagavi	Chairman
2.	Dean of the Faculty (Medicine)	Member
3.	Dean of the Faculty (Dentistry)	Member
4.	Dean of the Faculty (Pharmacy)	Member
5.	Dean of the Faculty (Ayurveda)	Member
6.	Chairman, Board of Studies for Pre-clinical Subjects (FOM)	Member
7.	Chairman, Board of Studies for Para-clinical Subjects (FOM)	Member
8.	Chairman, Board of Studies for Surgery & Allied Subjects (FOM)	Member
9.	Chairman, Board of Studies for Medicine & Allied Subjects (FOM)	Member
10.	Chairman, Board of Studies for Super-specialty Subjects (FOM)	Member
11.	Chairman, Board of Studies for Inter-disciplinary Board of Studies	Member
12.	Dr. B.S.Kodkany, Director, KLE University Research Foundation, Belagavi	Member
13.	Director, Academic Affairs, KLE Academy of Higher Education and Research, Belagavi	Member
14.	Registrar, KLE Academy of Higher Education and Research, Belagavi	Member- Secretary
15.	The Co-ordinator (IQAC) KLE Academy of Higher Education and Research, Belagavi	Invitee
16.	The Assistant Co-ordinator (IQAC) KLE Academy of Higher Education and Research, Belagavi	Invitee

3. University Research Co-ordination & Monitoring Committee (URC&MC)

Sl. No.	Name of the Members	Designation
1.	Vice-Chancellor	Chairman
2.	Director, KLE Academy of Higher Education and Research Research Foundation	Vice-Chairman
3.	Registrar, KLE Academy of Higher Education and Research	Member
4.	Administrative Incharge, BSRC, KLE Academy of Higher Education and Research	Member
5.	MD & CEO, KLE Dr. PK Hospital & MRC	Member
6.	Director, KLES Heart Foundation, Belagavi	Member
7.	Dean, Faculty of Medicine	Member
8.	Dean, Faculty of Ayurveda	Member
9.	Dr. Preeti Dodwad, Prof. of Conservative Dentistry and Life Member, KLE Society	Member (KLE Society Nominee)
10.	Dr. S.S.Goudar, Professor of Physiology, JNMC & Life Member, KLE Society	Member (VC's nominee)
11.	Deputy Director, KLE BSRC	Member-Secy.

4. Site Management Office Committee for clinical trials

Sl. No.	Names of the Members	Designation
1.	Dr. M.V. Jali Medical Director, Dr. PKH & MRC, Belagavi	Chairman
2.	Dr. A.D. Taranalli Former Principal, KLE COP, Belagavi	Member
3.	Prof. R.S. Mudhol Professor of E.N.T. & Ex-	Member

Sl. No.	Names of the Members	Designation
	Medical Superintendent KLE Dr. Prabhakar Kore Charitable Hospital, Belagavi	
4.	Dr. R.B. Nerli Professor & HoD, Dept. of Urology, Dr. PK H&MRC, Belagavi	Invitee
5.	Dr. Raviraj Ghorpade Associate Prof. Dept. of Neuro- Surgery, Dr. PK H & MRC Belagavi	Invitee
6.	Dr. M. S. Ganachari Prof. & Head, Dept. of Pharmacy Practice, KLE COP, Belagavi	Member-Secretary

5. “Institutional Ethics Committee” – Schedule Y

Sl. No.	Names of members	Designation
1.	Dr. Subarna Roy, Scientist ‘E’ Deputy-Director, RMRC(ICMR), Belagavi	Chairman
2.	Dr. Harsha V.Hegde, Scientist ‘B’ RMRC(ICMR), Nehru Nagar, Belagavi	Basic Science Scientist
3.	Dr. P. A. Patil Professor of Pharmacology KLE-USM School of Medicine, Belagavi	Basic Medical Scientist
4.	Dr. S.S.Goudar Prof. of Physiology, JNMC, Belagavi.	Basic Medical Scientist
5.	Dr. M. V. Jali Prof of Diabetology, JNMC, Belagavi.	Clinician
6.	Dr. M. K. Swamy Prof. & HoD, Dept. of Obst & Gynaec., JNMC, Belagavi	Clinician
7.	Dr. (Mrs) Manisha R. Bhandankar, Assoc. Prof Dept. of Paediatrics, JNMC, Belagavi	Clinician

Sl. No.	Names of members	Designation
8.	Mr. B. N. Metagudmath, Vigilance Officer, KLE Dr PBK Hospital & Medical Research Center	Lay person
9.	Mrs. Lalan Prabhu, Ramadev Galli, Belagavi	Social Worker
10.	Shri. Praveen Hiremath	Legal Expert
11.	Dr. M.S.Ganachari Prof. & HOD, Dept.Pharmacy Practice, Belagavi	Member- Secretary

6. Ph. D Ethics Committee for Human Research

Sl. No.	Name	Designation
1.	Prof. (Mrs) Sudha Raddi, Principal, KLE. Institute of Nursing Sciences, Belagavi	Chairperson
2.	Dr.N.M.Patil Professor & HoD of Psychiatry J.N.Medical College, Belagavi	Member
3.	Dr.Rudramma Hiremath Reader, Dept of Rasashastra KLE Sri BMK Ayurveda Mahavidyalaya, Belagavi	Member
4.	Dr.Deepa Metgud Associate Professor KLE Institute of Physiotherapy, Belagavi	Member
5.	Dr.M.S.Ganachari Prof & HOD, Pharmacy Practice KLE College of Pharmacy, Belagavi	Member
6.	Mrs. Jyoti Hiremath Lecturer, B V Bellad Law College, Belagavi	Member
7.	Mrs. Seema Potdar (Rupa Potdar) Social Worker, 496, Chandrala, 3 rd Cross, Bhagya Nagar, Belagavi - 590006	Member
8.	Dr. Hema Dhumale Professor, Dept of OBG J.N.Medical College, Belagavi	Member-Secy

7. University Animal Ethics Committee**CPCSEA Reg. NO. 1027/a/07/CPCSEA.**

Sl. No.	Name of the Members	Designation
1.	Prof. A.D. Tarnalli, KLEU College of Pharmacy, Belagavi.	Chairman
2.	Dr. Chandrshekhar Karpoor, S.S. Institute of Medical Sciences and Research Centre, Davangere.	Main Nominee CPCSEA
3.	Mr. Mallikarjun S. Kolar Hanagal Sri Kumareshwar College of Pharmacy, Bagalkot.	Link Nominee CPCSEA
4.	Dr. S. Shishupala Kuvempu University, Davangere.	Member CPCSEA
5.	Dr. Dhoolappa Melinamani Veterinary College, KVAFSU	Member CPCSEA
6.	Dr. P.A. Patil KLE University, Research Foundation, Belagavi.	Member
7.	Dr. Devareddy Sudha Veterinarian, Kuvempu Nagar, Belagavi	Member
8.	Dr. V.P. Rasal, KLEU College of Pharmacy, Belagavi.	Member
9.	Dr. N.A. Khatib KLEU College of Pharmacy, Belagavi.	Member-Secretary

- Research and Recognition Committee meets four times in a year.
- It is mainly responsible for scrutiny of the research proposals, recognition of teachers as Research Supervisors, approval of synopsis for Ph.D. registrations, sanction of funds for internally funded research projects, monitoring the progress of the research and clinical trials, determining incentive amount for research publications and scholarships for research scholars.
- The Research Committee identifies thrust and priority areas of research.
- The Committee also plans budget allocation for research.
- It considers proposal pertaining to establishment of new research centers / laboratories within and outside campus in terms of feasibility, outcome and research development.

- It recommends awards / recognitions for research to be instituted by the University in order to appreciate the research contributes by the staff and students.
- All the constituent units also have their institutional research ethics committee which is represented by members of college, external members, legal expert, scientists and social worker.

Enhancement:

The recommendations of research committee such as establishment of two new research centers, institution of research awards, scholarships and incentives have been successfully implemented. It has created high impact on research outcome with increased number of quality publications in journals of high impact factor.

3.1.2 Does the institution have an institutional ethics committee to monitor matters related to the ethics of inclusion of humans and animals in research ?

Yes

Initiation:

In addition to Institutional Ethics Committee for Human Research (Schedule Y) and University Animal Ethics Committee, the constituent units of the University have their separate Ethics Committees to monitor ethical issues related to both human and animal research as per ICMR and CPCSEA guidelines for UG and PG research projects. Ethics Committee for research projects is constituted with the following composition :

Ph.D Ethics Committee for Human Research

Sl. No.	Name	Designation
1	Prof. (Mrs) Sudha Raddi, Principal, KLE. Institute of Nursing Sciences, Belagavi	Chairperson
2	Dr.N.M.Patil Professor & HoD of Psychiatry J.N.Medical College, Belagavi	Member
3	Dr.Rudramma Hiremath Reader, Dept of Rasashastra KLE Sri BMK Ayurveda Mahavidyalaya	Member
4	Dr.Deepa.Metgud Associate Professor KLE Institute of Physiotherapy, Belagavi	Member

Sl. No.	Name	Designation
5	Dr.M.S.Ganachari Prof & HOD, Dept of Pharmacy Practice KLE College of Pharmacy, Belagavi	Member
6	Mrs. Jyoti Hiremath Lecturer, B V Bellad Law College, Belagavi	Member
7	Mrs. Seema Potdar (Rupa Potdar) Social Worker, 496, Chandrala, 3 rd Cross, BhagyaNagar, Belagavi -590006	Member
8	Dr. Hema.Dhumale Professor, Dept of ObG J.N.Medical College, Belagavi	Member- Secy

University Animal Ethics Committee

CPCSEA Reg. NO. 1027/a/07/CPCSEA.

Sl. No.	Name of the Members	Designation
1.	Prof. A.D. Tarnalli, KLEU College of Pharmacy, Belagavi.	Chairman
2.	Dr. Chandrshekhar Karpoor, S.S. Institute of Medical Sciences and Research Centre, Davangere, Karnataka	Main Nominee CPCSEA
3.	Mr. Mallikarjun S. Kolar Hanagal Sri Kumareshwar College of Pharmacy, Bagalkot, Karnataka	Link Nominee CPCSEA
4.	Dr. S. Shishupala Kuvempu University, Davangere, Karnataka	Member CPCSEA
5.	Dr. Dhoolappa Melinamani Veterinary College, KVAFSU	Member CPCSEA
6.	Dr. P.A. Patil KLE University, Research Foundation, Belagavi, Karnataka	Member
7.	Dr. Devareddy Sudha Veterinarian, Kuvempu Nagar, Belagavi	Member
8.	Dr. V.P. Rasal, KLEU College of Pharmacy, Belagavi, Karnataka	Member
9.	Dr. N.A. Khatib KLEU College of Pharmacy, Belagavi, Karnataka	Member- Secretary

Institutional Ethics Committee – Schedule Y

Sl. No.	Names of Members	Designation
1.	Dr. Subarna Roy, Scientist 'E' Deputy-Director RMRC(ICMR), Belagavi	Chairman
2.	Dr. Harsha V. Hegde, Scientist 'B' ICMR (RMRC), Nehru Nagar, Belagavi	Basic Science Scientist
3.	Dr. P. A. Patil, Professor of Pharmacology KLE-USM School of Medicine, Belagavi	Basic Medical Scientist
4.	Dr. S.S.Goudar, Prof. of Physiology, JNMC, Belagavi.	Basic Medical Scientist
5.	Dr. M. V. Jali, Prof of Diabetology, JNMC, Belagavi	Clinician
6.	Dr. M. K. Swamy, Prof. & HoD, Dept. of Obst & Gynaec., JNMC, Belagavi	Clinician
7.	Dr. (Mrs) Manisha R. Bhandankar, Assoc. Prof Dept. of Paediatrics, JNMC, Belagavi	Clinician
8.	Mr. B. N. Metagudmath, Vigilance Officer, KLESH,	Lay person
9.	Mrs. Lalan Prabhu, Ramadev Galli, Belagavi	Social Worker
10.	Shri. Praveen Hiremath	Legal Expert
11.	Dr. M.S.Ganachari, Prof. & HOD, Dept.Pharmacy Practice, Belagavi	Member-Secretary

Sustenance:

The Institutional Ethics Committee for human and animal research is reconstituted once in three years.

Enhancement :

- Institutional Review Board (IRB) of the University is recognized by Office for Human Research Protections by the U.S Department of Health and Human Services (DHHS) for research involving human subjects and clinical investigation regulated by Food and Drug Administration (FDA) of DHHS.
- The University Ethics Committee is registered with Drug Controller General of India (DCGI), No. ECR/2011/Inst/KA/2013 issued under rule 122DD of the Drugs and Cosmetics Rules 1945 under Schedule Y.

3.1.3 What is the policy of the university to promote research in its affiliated / constituent colleges?

Initiation:

- “To become international leader in providing the highest quality patient care from primary to tertiary level” is one of the goals set by the University at its inception in 2006.
- Increasing concerns over growing needs for research in health care sector prompted University to have policies that support research by both young academicians and experienced researchers.

Sustenance

- University has excellent infrastructure facility in the campus and its off-campus colleges for conduct of research.
- As of 2009, total infrastructure space area of 12,269.62 Sq ft. was available for promotion and conduct of research and now is increased to an area of 9,84,835 Sq.ft. as under:

Sl. No.	Infrastructure facilities for research	2009 (approximate)	2014 (approximate)
1.	Basic Science Research Centres	460 Sq. ft	10,745 Sq. ft
2.	Animal House	4,900 Sq. ft	9,090 Sq.ft
3.	JNMC Centre for Women's and Children's Health Research	2,300 Sq. ft	3,480 Sq ft
4.	Site Management Office	2,360 Sq ft	3,200 Sq ft
5.	Archives	990 Sq ft	2,000 Sq ft
6.	Herbal Garden	--	22 acres
	Total Space Area	12,269.62 Sq.ft.	26,515 Sq.ft.+ 22 acres

- One of the constituent units of University J.N. Medical College, is one among the eight global sites of NICHD, USA for Women and Child Health Research which undertakes Community Oriented Research.
- The scope for research is provided by Dr. Prabhakar Kore Basic Health Science Research Center. It has been established with vision to become a force to be reckoned with, in the field of research and create motivated individuals to engage in basic medical research by providing critical research skills through scientifically designed programmes.
- The University encourages research among post-graduate students in their academic programmes.
- University encourages Short Term Studentship (STS) funded by ICMR among undergraduate students, and so far 27 projects have been completed.
- University grants a scholarships of Rs. 8,000 to 30,000 per month along with contingency amount of Rs. 25,000/- per year to full time scholars.
- Faculty is encouraged to participate in national and international conferences by providing incentives for paper/poster presentation or acting as chairman/co-chairman/resource person for the scientific session.
- Incentives are given to faculty for publishing research articles, in peer reviewed national and international journals with good impact factor.
- University bears the entire cost of book publication to promote publication by faculty.
- Students are encouraged by providing incentives for securing awards for paper / poster presentation and participating in scientific meets.
- College of Ayurveda is identified as research center with financial support from Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homoeopathy (AYUSH) and so far received around Rs.3 crores.
- Five animal houses of 844.59 Sq.mts. registered with CPCSEA are available for research. A qualified veterinary doctor looks after the animal house.
- Herbal garden facility is available for Ayurveda and Pharmacy research.
- Research sensitization programmes like workshops, seminars, training programmes, CME's are organised by all the constituent units, UDEHP and BSRC to promote research culture.

- Highly sophisticated equipments are available in the Departments of constituent units of University that are accessible to all faculty and students.
- University and its constituent units earmark adequate budget for research activities like organization of national and international conferences, workshops and seminars. The financial assistance for research projects/ research incentives, orientation programs, publication of research journals, books and articles is also provided.
- Financial support is extended for research training, skill improvisation and infrastructure development.

Enhancement :

- Additional Basic Science Research Center of 745 Sq.ft in its off-campus at College of Pharmacy, Bengaluru with initial investment of Rs. 22 lakhs has been established.
- Introduced research awards to promote research in its constituent colleges which are as follows :
 - Best Ph.D Thesis Award
 - Best Post-Graduate Dissertation Award
 - Cash Award / Incentive for publication of Text Book / Reference Book
 - Best Scientist Award
 - Best Young Scientist Award
 - Cash incentive to the faculty members on the financial grant received from funding agencies
 - Travel grants for paper/poster presentation
- University has signed 120 National / International MoUs and 180 Collaborations for research promotions.
- Ph.D scholars are deputed to foreign Universities for research activity.

3.1.4 What are the proactive mechanisms adopted by the institution to facilitate the smooth implementation of research schemes/projects ?

a. Externally funded projects(both government and private agencies):

- * **advancing funds for sanctioned projects.**
- * **providing seed money.**
- * **simplification of procedures related to sanctions / purchases to be made by the investigators.**
- * **autonomy to the principal investigator/coordinator for utilizing overhead charges.**

- * timely release of grants.
 - * timely auditing.
 - * submission of utilization certificate to the funding authorities.
 - * writing proposals for funding.
 - * any training given for writing proposals.
- b. Institution sponsored projects :**
- * Proportion of funds dedicated for research in the annual budget.
 - * Availability of funding for research /training/resources.
 - * Availability of access to online data bases.

Initiation :

- University Research Monitoring and Coordination Committee under the Chairmanship of Vice-Chancellor meets regularly.
- University has made annual budgetary allocation of Rs. 10 crores for research and development.
- Financial support for Ph.D research, fellowships and research projects of faculty is provided.
- Research Foundation of the University is established with the Director as head and four Scientists including biostatistician to guide basic research for faculty and students of all colleges.
- Research and Development Cell of the Institutions are established to monitor and record research conducted in the institution.

Sustenance :

- Basic Science Research Center is established with the state of art facilities and highly qualified scientists and Co-ordinators to conduct research and also monitors and maintains records of researches in the area of basic science.
- Seven (7) Committees are involved for monitoring research activities in the University and its constituent units.
- Site Management Office (SMO) is functional in hospital to monitor clinical trials and clinical research.

a. Externally funded projects (both government and private agencies):

- * **advancing funds for sanctioned projects.**
The University provides advance to the investigators before the release of sanctioned amount from different agencies.

- * **providing seed money.**
University provides seed money up to 2 lakhs for project initiation which attracts funding from National and International agencies.
- * **simplification of procedures related to sanctions / purchases to be made by the investigators.**
University has simplified purchase procedures by constituting institutional purchase committees and University Purchase Committee.
- * **autonomy to the principal investigator/coordinator for utilizing overhead charges.**
Autonomy is given as per university norms.
- * **timely release of grants.**
Yes, Grants released within 15 days.
- * **timely auditing.**
Internal and external auditing is done regularly.
- * **submission of utilization certificate to the funding authorities.**
Yes, Promptly done.
- * **writing proposals for funding.**
Researchers are periodically oriented to project writing skills. Faculty experienced in grant writing guide PGs and other faculty members in writing proposals for funding.
- * **any training given for writing proposals :** The University regularly conducts Workshops in the University Department of Education for Health Professional, BSRC and Research Foundation for faculty to train for writing grant proposals to national and international agencies.

b. Institution sponsored projects:

- * **proportion of funds dedicated for research in the annual budget.**
About 10% of the total University annual budget is dedicated for research.
- * **availability of funding for research /training/resources.**
Rs. 10 crore annual budget is available for activities related to research and development, resources, training and infrastructure.

* **availability of access to online data bases. :**

- The Wi-Fi campus with its digital library, e-learning facilities
- Digital library with 40Mbps broadband
- E-learning resources.
- Apart from central digital library, all the constituent units and hospital have separate digital libraries.
- There are 2614 e-journals and 2470 e-books in the library
- Library has E-learning resources like e-database, e-books, e-journals ICT and smart class, production of teaching modules and interactive learning, MedRC Server, Helinet, Science Direct, Access to cochrane database, INFLIBNET and “Sakshat.ac.in” through 1 GB ps lease line obtained through NMEICT.

Enhancement :

- Institutional Repository and KIOSK facilities are available in the central library for the benefit of faculty and students for data access.
- Regular conduct of workshops by scientists from Basic Science Research Center, on grant writing for faculty and postgraduate students.

3.1.5 How is multidisciplinary / interdisciplinary / transdisciplinary research promoted within the institution?

- * **between/among different departments / and**
- * **collaboration with national/international institutes / industries.**

Initiation :

Research ideas often transcend the scope of single discipline or program. Hence, University has adopted integration through multi-disciplinary / inter-disciplinary / trans-disciplinary research which has inspired students and faculty to undertake scientific challenges in innovative ways.

Sustenance :

* **between/among different departments / and**

- Interdisciplinary and multidisciplinary research through Ph.D programs.
- Multidisciplinary research through postgraduate research programs among different departments.

*** Collaboration with national/international institutes / industries.**

University and constituent colleges have collaborations with various Academic / Research Organizations for development of mutually beneficial academic inputs and coordination of academic staff mobility for the purpose of teaching, research and training. Collaborations with International Universities – 26, International Organisations – 27 and National Universities / Organisations / Industries -127.

Enhancement :

- Interdisciplinary research is enhanced by establishing new MOU's with various organizations of different disciplines.
- 22 inter-disciplinary and trans-disciplinary research programs are in progress through Ph.D and ayurgenomics.

3.1.6 Give details of workshops/ training programs / sensitization programs conducted by the institution to promote a research culture in the institution.

A total of 377 workshops/training programs/sensitization programs have been conducted by the constituent units, University Department of Education for Health Profession, Basic Sciences Research Center and Clinical Skills Laboratory in the last four years to promote a research culture in the institution.

Details of workshops/ training programs/ sensitization programs

Year	Constituent units	BSRC	UDEHP	Total
2010	59		18	77
2011	57		20	77
2012	60	Established	15	75
2013	54	06	15	75
2014	54	06	13	73
Total	284	12	81	377

**3.1.7 How does the institution facilitate researchers of eminence to visit the campus?
What is the impact of such efforts on the research activities of the institution?**

Initiation :

The University has been conducting ‘**University Guest Lecture Series**’ and Orations by eminent scientists.

Sustenance :

- The eminent researchers of national and international repute are invited to the campus as guest speakers, resource persons for conferences and workshops.
- Every year University organizes “**University Foundation Day Oration**” on **13th April** by eminent scientists of national and international fame.
- University has organized 48 guest lecture series and 8 Orations till date.
- All the constituent units maintain a database of contact details of researchers of eminence.
- University provides financial assistance to constituent units to conduct workshop/guest lectures by eminent scientists.
- The KLE University’s Research Foundation has been doing excellent work in the field of Maternal and Child Health. The Women’s and Children’s Health Research Center at J. N. Medical College is one of the **Global Network sites of NICHD, USA** across the world and is one of the leading sites.
- The exemplary work has been appreciated by dignitaries like **Kathleen Sebelius, Secretary of Health and Human Services USA** and **Shri Gulam Nabi Azad Union Minister of Health & Family Welfare, Government of India** and other dignitaries. Eminent scientists of NICHD (USA) and other funded research have been visiting our center of research foundation on regular basis.

Enhancement :

- Appointment of Professor Emeritus, Adjunct Professors and Visiting Professors.
- Research Mentorship Program conducted by International faculty from University of Illinois and University of Missouri.

3.1.8 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization

Initiation :

The Planning and Monitoring Board and Finance Committee of the University plan overall budgeting, including allocation of funds for research. The cost estimates are applied to future research needs, estimating direct cost, based on past experience, as well as, present costs with an added inflation factor.

Sustenance :

About 10% of total budget is earmarked for research by the University every year.

Budget estimates for Research activities for the year 2014-15 Rs. in lakhs

Particulars	Actual 2010-11*	Actual 2011-12*	Actual 2012-13	Actual 2013-14	Budget Estimate 2014-15
Research Activities	296.96	316.70	1,435.00	1,026.98	1,062.50

* There were only two constituent colleges, hence budget allocation was less as compared to other years.

Details of allocation of Funds to Research Activities (for last 5 yrs) (April 2010 to Dec 2014)

Sl. No.	Particulars	Actual 2010-11 (in lakhs)	Actual 2011-12 (in lakhs)	Actual 2012-13 (in lakhs)	Actual 2013-14 (in lakhs)	Estimate 2014-15 (in lakhs)
1	National and international conference organization and deputation	1.09	0.94	100.00	75.00	75.00
2	Guest lectures, Workshops, organizing seminar and conferences etc.	1.08	3.02	10.00	7.50	10.00
3	Research scholarships / Fellowships & conferences			150.00	75.00	100.00

Sl. No.	Particulars	Actual 2010-11 (in lakhs)	Actual 2011-12 (in lakhs)	Actual 2012-13 (in lakhs)	Actual 2013-14 (in lakhs)	Estimate 2014-15 (in lakhs)
4	Financial assistance for research projects/ research incentives, orientation programs	1.39	1.80	150.00	85.00	100.00
5	Skill improvization, research training capacity building etc.			129.00	110.00	110.00
6	Publication of research journals, books, articles, etc			20.00	7.00	25.00
7	Organization of CME / CDE /Research Center programs			25.00	18.00	20.00
8	Salary to staff members of Basic Science Research Center, Belagavi			20.00	15.00	25.00
9	National and international collaborations and visits			20.00	7.50	17.50
10	UDEHP Expenses			5.00	3.00	5.00
11	Cash Award/ Incentive for publication of text book / reference book/ best scientist award / best young scientist award /best Ph.D thesis award / best PG dissertation award			9.00		10.00

Sl. No.	Particulars	Actual 2010-11 (in lakhs)	Actual 2011-12 (in lakhs)	Actual 2012-13 (in lakhs)	Actual 2013-14 (in lakhs)	Estimate 2014-15 (in lakhs)
12	Revision in the guidelines for grant of incentives to the faculty members of the university for publications			7.00		15.00
13	Cash incentive to the faculty members on the financial grant received from funding agencies			5.00		10.00
Total (A)		3.56	5.76	650.00	403.00	522.50
14	Expenditure of projects of research foundation					
a	Maternal & newborn health registry (MNHR)	112.56	122.19	175.00	167.78	165.00
b	Antenatal corticosteroids trial in preterm births to increase neonatal survival in developing countries in Belagavi District, Karnataka, India	0.10	41.00	120.00	100.00	-
c	Evaluation of helping babies breathe in Belagavi Kenya and Nagpur. Does implementation of helping babies breath save lives? (HBB) project	0	6.65	130.00	115.00	-

Sl. No.	Particulars	Actual 2010-11 (in lakhs)	Actual 2011-12 (in lakhs)	Actual 2012-13 (in lakhs)	Actual 2013-14 (in lakhs)	Estimate 2014-15 (in lakhs)
d	JNMC Women's & Children's Research Unit (CORE)	48.50	58.57	50.00	42.20	50.00
e	Preconception maternal nutrition study (PMN study)	93.51	73.13	95.00	89.00	150.00
f	Brain research to ameliorate impaired Neurodevelopment : Home based Intervention Trial (BRAIN HIT)	38.73	9.40			
Total (B)		293.4	310.94	570.00	513.98	375.00
15	Dr. P.B. Kore Basic Sciences Research Centre, Belagavi					
a	Consumables			25.00	10.00	20.00
b	Building / equipments			190.00	100.00	155.00
Total (A+B+C)		296.96	316.70	1,435.00	1,026.98	1,062.50

Enhancement :

There has been increase in total budget earmarked for research every year.

3.1.9 In its budget, does the university earmark funds for promoting research in its affiliated colleges ? If yes, provide details.

As it is Deemed University there are no affiliated colleges. However, each constituent unit has earmarked funds for promoting research.

3.1.10 Does the institution encourage research by awarding Postdoctoral Fellowships/Research Associateships? If yes, provide details like number of students registered, funding by the institution and other sources.

Yes

Initiation :

The University has been encouraging faculty and student enrollment for various research and fellowship programmes.

Sustenance :

The University offers programs like DM, M.Ch and Fellowships:

- A total of 66 (16 DM / 17 M.Ch / fellowship 33) students have enrolled in last five years for these programs.
- Three Research Associates and one Research Assistant in Basic Science Research Center.
- These programs are funded by University and various other funding agencies like ICMR, VGST-SPICE, Sri Ratan Tata research fund, etc.

Enhancement :

- The University gives scholarships to fulltime research scholar of Rs. 8,000 to 30,000 per month along with contingency amount of Rs. 25,000/- per annum.
- The University gives 50% concession in tuition fee for Ph.D program to in-service teachers.
- Cash incentives upto a maximum of Rs. 50,000/- is provided to the principal investigator for the grants received from Government agencies.

3.1.11 What percentage of faculty have utilized facilities like sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the institution monitor the output of these scholars?

Initiation:

As per the leave policy of University, there is provision for sabbatical leave for pursuit of higher research in premier institutions within the country and abroad.

Sustenance:

- 5% of the faculties have utilized facilities like sabbatical leave for pursuit of higher research in premier institutions within the country and abroad.
- Their output is monitored by contribution in publication in books and journals, research grants received and development of research activities in the parent institute.

Enhancement:

Increased number of MoU with national and international agencies has led to increase in number of faculty availing the provision of sabbatical leave. This in turn has led to improvement in quality of patient care, teaching and research output.

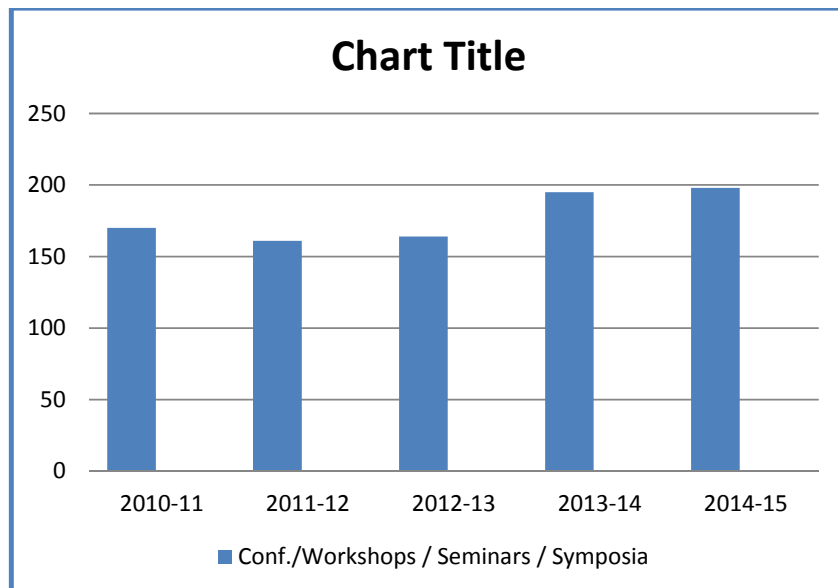
3.1.12 Provide details of national and international conferences organized by the institution highlighting the names of eminent scientists/scholars who participated in these events.**Initiation :**

The constituent units of University have been organizing national and international conferences that have been providing meaningful platform for students and faculty to update and enhance their knowledge, skill and competency.

Sustenance :

A total of 888 conferences/workshops/seminars/symposia (national and international) have been organized by the constituent colleges of the University, in the last five years.

The graph represents year-wise details of the events.



Following are some of the eminent scientists / scholars who participated in the events:

Name	Event
Dr. Linda Wright Deputy Director, Center for Research for Mothers & children, Director, Global Network for women's and child health research, NICHD, USA	Review of Global Network Projects NICHD. Women's & Children's Health Research – Capacity Building
Dr Robert Goldenberg Professor, Department of Obstetrics/Gynaecology Drexel University College of Medicine, Philadelphia, USA	Higher education in clinical research
Dr. Richard Derman Chair of Obstetrics and Gynaecology, Christiana Care Health Services, USA	Maternal and child health research – global priorities
Dr. Peter Von Dodleszen Prof. of OBG, University British Columbia, Canada	PREMPT trial management of hypertension in pregnancy, overview
Dr. Michael Hambridge University of Colorado USA	Pre-conceptional nutrition
Dr. Marion Koso-Thomas Program Officer, NICHD Global Network, Bethesda, MD, USA	NICHD Global Network for Women's and Children's health research

Name	Event
Dr. Dennis Wallace RTI International, North Carolina, USA	Challenges in designing and analyzing cluster randomized trials
Dr. Stacie E Geller Professor of OBGYN, University of Illinois at Chicago, USA	Misoprostol for prevention and treatment of postpartum hemorrhage
Dr. Suellen Miller Professor Of OBGYN, University California at San Francisco, USA	Anti-shock garment in the management of postpartum hemorrhage
Ms. Holly Anger Gynuity Health Projects, New York, USA	New models for diagnosis and treatment of postpartum hemorrhage at the community level
Dr. Laura Maggie Prof. of Internal Medicine, University British Columbia, Canada	Management of hypertension in pregnancy
Dr. Rizwan Naeem, Professor of Pathology & Genetic, Albert Einstein College of Medicine of Yeshiva University, Bronx, New York	Role of genetics in pediatric cancer
Dr. Tushar Kokate, Ph.D, Former Executive, US-FDA	Drug approval process.
Dr. Micheal Jose	Editor journal of reproductive medicine and the co-investigator for prevention of pre-eclampsia trial
Dr. Sten Vermund, Professor and Director, Vanderbilt Institute for Global Health, Vanderbilt University	Global partnerships in clinical research”
Dr. Mathew Hoffman Vice Chairman of Obstetrics & Division of Education and Research for CCHS, Newark, Delaware, USA	Principal Investigator for Clindmycin for prevention of Preterm Labor Adrenal gland for predictor of pre-term labor Shoulder Dystocia
Dr. Robert G Locke	Neonatologist, CCHS Delaware, USA
Dr. Stacie Geller Dept. of Obstetrics and Gynaecology, College of Medicine, University of Illinois, Chicago, USA	First International Convention & 15 th Annual Conference of Society of Pharmacognosy National Seminar- Misoprostol Two Strategies
Dr. David Ladley Swanson	Consultant for RTI, USA
Norman Goco	RTI International USA

Name	Event
Diane Sawchuck	PRE-EMPT Manager, Adjunct Professor, BC Women's and Children's Hospital, Perinatal Health Program, University of British Columbia, Vancouver
Dr. Viji Kurup, MD, Director, Departmental Education, Department of Anaesthesiology, Yale University School of Medicine, New Haven, CT	Impact of technology on teaching & learning in health science education
Dr. Uday Tirlapur Head, Stem Cell Epigenetics and Bimolecular Imaging Group, Botnar Research Center, Nuffield. Dept of Orthopedics, Rheumatology & Musculoskeletal Sciences, University of Oxford, United Kingdom	First International Convention & 15 th Annual Conference of Society of Pharmacognosy
Mr. Dustine Dunsmuir	Software developer of the health tool for use by the community health care provider, UBC, Vancouver, Canada
Dr. Shelly Sundberg Senior Programme Officer, Nutrition, Bill & Melinda Gates Foundation, USA	Pre-conceptional nutrition project
Mr. Robert Brown Justin	Millennium development goals
Mr. Aaron Vaughan Ponsler	What the world needs to know about India
Dr. Vijay B Lakshmikanthan, Research Assistant Professor of Basic Pharmaceutical Sciences, College of Pharmacy, University of Louisiana-Monroe, Monroe, LA	Microbial water contamination and faecal - source tracking
Dr. Rohan Elliot Monash University, Melbourne, Australia	Drug use in geriatric
Dr. Rahul Basu, Lead Cardiac Anaesthetist, Trent Cardiac Centre, Dept. of Anaesthesia, United Kingdom.	National workshop on "Intra-operative Trans Esophageal Echocardiography"
Dr. Jagadish Jamboti, Renal Physician, Department of Renal Medicine and Transplantation,	Chronic kidney disease

Name	Event
Fremantle Hospital, Perth, Western Australia and Sr. Clinical Lecturer, University of Western Australia	
Prof. Vikash Sewram Director-Oncology Research Unit & Cancer Research Initiative, Medical Research Council(MRC), South Africa	First international convention & 15 th annual conference of society of Pharmacognosy
Prof. Isadore Kanfer Emeritus Dean & Professor of Pharmacy, Faculty of Pharmacy, Rhodes University	First International Convention & 15 th annual conference of society of Pharmacognosy
Dr. Tabassum Firoz	Clinical Investigator Program, University of British Columbia maternal mortality and morbidity audit, (PRE-EMPT) Vancouver, Canada
Dr. Michael Moront , The Toledo Hospital, Ohio, USA.	National workshop on MICS live workshop on “AVR & Mitral Valve Repair”
Mrs. Sharla Korrin Drebit	PRE-EMPT Manager, Dept. of OBG, University of British Columbia, Vancouver
Dr. Beth Payne	PIERS/CLIP Research Manager, University of British Columbia, Dept. Of OBG, Vancouver, Canada
Dr. Nandita Chopra	NIH representative US Embassy, New-Delhi
Dr. Richard W. Grady, (USA)	Reconstructive paediatric urology
Dr. Anjana Kundu, (USA)	Reconstructive paediatric urology
Dr. Gibson D’cruz , Senior Lecturer and School Director of Teaching, University of East Anglia, School of Midwifery, Norwich, UK	Organization of healthcare in the United Kingdom
Dr. Abhay Vaidya , Consultant Anesthesiologist, NHS, PG Examiner, Royal College of Anesthesiologists, UK	Human factors in clinical practice
Dr. Taweesak Chotivatanapong , Head of the Department of Cardiothoracic Surgery, Chest Disease Institution, Thailand	National workshop on Mitral valve repair

Name	Event
Dr. Joao Liz Salle (Canada)	Ethics and welfare of laboratory animals Sthaapana-National seminar on basic principles of ayurveda, basic principles Global partnerships in clinical research
Dr. Abhay Vaidya , Consultant Anesthesiologist, NHS, PG Examiner, Royal College of Anesthesiologists, UK	Human factors in clinical practice
Dr. Poonam Khetrapal Singh , WHO, Deputy Regional Director for South East Asia	Global partnership for development in health
Dr. R. S. Paranjape , Director & Scientist G, National AIDS Research Institute (NARI), Pune.	Immunity and HIV
Dr. Neeraj Tondon Joint Director, General (Sr Grade)/Scientist G, Indian Council of Medical Research (ICMR) Ansari Nagar, New Delhi	First international convention & 15 th annual conference of society of pharmacognosy
Dr. S. P. Tripathi , Scientist F, NARI, Pune	TB and HIV
Dr. Ali Irani	International seminar, sports physiotherapy recent trends.
Dr. A. R. Risbud , Scientist F, NARI, Pune	HIV lab diagnosis and incidence testing
Dr. (Mrs) Manisha Ghate , Scientist E, NARI, Pune	HIV associated neurocognitive disorders (HAND)
Dr. Shailesh Puntambekar , Laposcopic Surgeon, Pune	Reconstructive paediatric urology
Prof. Bhushan Patwardhan Ph.D, Director of Inter-disciplinary School of Health Sciences, University of Pune,	Integrative medicine as future of health care
Dr. Ramaraj Urs Chief Librarian, Rajiv Gandhi University of Health Sciences, Bengaluru	Current trends & perspective in medical librarie
Dr. Srabani Mukherjee Scientist D, Dept. of Molecular endocrinology NIRRH, ICMR Mumbai.	Understanding the pathophysiology of pcos- an overview

Name	Event
Dr. Mohammed Ikram Khatkhatey , Scientist E (Deputy director) NIRRH, ICMR, Mumbai	Current understanding of osteoporosis
Dr. Rebecca Jacob , Member, Medical Advisory Board, Smile Train, India	Perioperative fluid management in paediatric patient
Dr.Srinivas K Saidapur , Former Vice-Chancellor, Karnataka University, 108, Sripad Nagar, Saptapur, Dharwad - 580 001	Evolutionary medicine
Dr.G.Subrahmanyam , Research Director & Cardiologist Narayana Medical Institutions, Nellor	Stem cell therapy
Prof. (Dr.) G.D. Yadav B.Chem. Engg., Ph.D. (Tech.), F.T.W.A.S., F.N.A., F.N.A.Sc., F.M.A.Sc., F.I.I.Ch.E., F.I.C.S.Ch.E., F.I.Chem.E.(UK) Vice-Chancellor, Institute of Chemical Technology, Mumbai.	Confluence of chemical and biological sciences and engineering for societal benefit
Dr.Shripad B. Deshpande , Prof of Physiology, Benaras Hindu University, UP	National Seminar 2014 “A Multidisciplinary Approach to Pain & its Management” Pathophysiology of pain & molecular research
Sri. N.S.Srinivasan Founder and Chief, Medha Mind Co Pvt Ltd. Chennai.	EEG Neurobiofeedback to alleviate pain
Dr.Arun Maiya	Cobb reflection, plagiarism & portfolio writing
Lt.Gen. Dilip Desai , PVSM,AVSM,VSM(Retd)	Understanding wars
Dr.G.Subrahmanyam , Research Director & Cardiologist Narayana Medical Institutions, Nellor	Stem cell therapy
Mr.Sambhav Srivastava Evaluation Officer, Association of Indian Universities, AIU House, New Delhi	Equivalence of foreign degree/eligibility criteria of overseas students for admission to Indian Universities
Dr. Madanmohan , MBBS, MD(Physiol), DSc(Yoga), FIAY, Professor & Head of Physiology, Mahatma Gandhi Medical	My work in physiology and yoga

Name	Event
College & Research Institute and Ex-Programme Director, ACYTER, JIPMER Pondicherry	
BK. E. Swaminathan, M.Tech, Scientists & Engineers Wing, Prajapita Brahma Kumaris Ishwariya Vishwa Vidyalaya, Mount Abu	Reasons for disasters and their management
Dr. Prasad Kothari, MDS, MBBS, FDSRCS, FRCS(ORI-HND). ENT Head & Neck Surgeon, Luton & Dunstable NHS Trust, Lead for Head & Neck and Thyroid Cancer, MDT Chair Beda & Hear Cancer Centre	Management of salivary gland malignancies
Dr. R.S. Sawhney, Registrar, Indian Institute of Technology Mandi, Himachal Pradesh	Coronary artery disease regression through life style changes: Vegetarianism, moderate aerobic exercise and stress management through Rajyoga meditation
Dr. Kambhampati Subramanyam, MA (Eng), MA(Phil.) Ph.D Pro Vice-Chancellor, S-Vyasa (Yoga University,) Bengaluru	Value education and ethical practice in health-care
Dr. Suresh Bhat, Kerala	Reconstructive paediatric urology

3.1.13 Mention the initiatives of the institution to facilitate a research culture in the below mentioned areas:

- * **Training in research methodology, research ethics and biostatistics**
- * **Development of scientific temperament**
- * **Presence of Medical /Bio Ethics Committee**
- * **Research linkages with other institutions, universities and centers of excellence. (national and international)**
- * **Research programs in Basic Sciences, Clinical, Operational Research, Epidemiology, Health Economics, etc.**
- * **Promotional avenues for multi-disciplinary, inter-disciplinary research.**
- * **Publication-based promotion/incentives.**
- * **Providing travel grant for attending national/international conference and workshops.**

The University has been conducting research in all disciplines of health sciences, and seeks to expand knowledge through analysis, innovation and insight. There has been increase in basic science and clinical research useful for practical applications that have helped human health by converting translational research to applied science.

*** Training in research methodology, research ethics and biostatistics.**

- The University has started the Department of Epidemiology and Biostatistics.
- The University has started Diploma in Biostatistics to facilitate research culture among faculty and students of medical and para-medical courses.
- Most of the undergraduate and postgraduate programs in the University have research methodology, research ethics, GCP, GLP, GMP and biostatistics as part of the curriculum.
- Around 20 workshops/training programs are conducted on research methodology in last four years by all the constituent units regularly for faculty and students.
- The University provides incentives to faculty for participating in training programs on research methodology in national and international fora.
- Ph.D scholars undergo six months research orientation which includes one month course in Biostatistics.
- The University has organized 4 Workshops on Evidence Based Medicine in last four years through UDEHP and Research Centers.

*** Development of scientific temperament**

- The University's constituent colleges organize national and international conferences/workshops with scientific sessions including paper/poster presentations, panel discussions and brain storming sessions on recent health related issues.
- Thirty scholarships have been awarded for Ph.D scholars and cash incentives are given to teachers for paper/poster presentations and publications in reputed journals.
- The University Research Foundation has 22 international external funded projects to its credit of approximately Rs. 30 crores in last five years.
- Encourage involvement of UG students in research by short term projects funded through government /other agencies.

- The University has established state of art research facility with an initial investment of Rs. 10 crores by establishing Basic Science Research Centers at Belagavi and Bengaluru. The Research Center has facilities for molecular biology, medical microbiology, pharmaceutical analysis, natural product and pharmacokinetics, etc.

* **Presence of Medical/Bio Ethics Committee**

- Each institute has Institutional Ethical Committee for human and animal studies to monitor undergraduate and postgraduate research.
- The University has Ethics committees for human and animal research constituted as per guidelines of ICMR (registered with DCGI) and CPCSEA respectively.
- The University has Research Monitoring and Coordination Committee under the Chairmanship of Vice-Chancellor which monitors quality of research.
- Research Foundation of the University is established with the Director as Head and four Scientists including biostatistician to guide basic research for faculty and students of all colleges.
- Research and Development Cells are established in all the constituent units to monitor and record research conducted in the institution.
- Scientists, research assistants and Co-ordinators of Basic Science Research Center conduct, guide and supervise research activity and maintain records of research.
- Site Management Office (SMO) is functional in hospital to monitor clinical trials and clinical research. It also provides facilities for pharmaceutical, biological and medical device product development from Phase II through Phase III for multi-national companies (MNCs). All activities meet the required standard laid down by the ICH- Good Clinical Practices (GCP) and Food and Drug Administration (FDA) which helps to protect the patient's rights and also assures their safety and data quality.

* **Research linkages with other institutions, universities and centers of excellence. (National and International).**

The University has established 300 linkages with well-reputed international, national and state universities, organizations and centers of excellence.

*** Research programs in Basic Sciences, Clinical, Operational Research, Epidemiology, and Health Economics, etc.**

- Ph.D, post graduate programs in various disciplines, super speciality programs like, M.Ch/ DM, Master in Public Health program conduct research in areas of basic sciences, clinical, operational research, epidemiology and health economics.
- In the last five years, 66 research scholars have been awarded with Ph.D and 93 are pursuing in above mentioned areas. In addition, around 450 postgraduate dissertations in clinical, epidemiological and basic science are carried out every year.

*** Promotional avenues for multi-disciplinary, inter-disciplinary research.**

- Multi-disciplinary and inter-disciplinary research is encouraged at postgraduate, doctoral and post doctoral programmes.
- Separate Faculty of Science has been constituted to promote inter-disciplinary research.
- Financial support for inter-disciplinary research in the form of scholarships and contingency grant including incentives for publications is provided.

*** Promotional avenues for translational research.**

- Translational research is carried out at postgraduate and doctoral programmes.
- Evidence based medical practice at the institute and teaching hospital enhances scientific research which helps to make findings from basic science useful for practical applications that augments human health and well-being.

*** Instilling a culture of research among undergraduate students.**

- Orientation programs/guest lectures on research are conducted for Undergraduate students.
- Short projects and ICMR projects are undertaken by students under the guidance of faculty members.
- The students are encouraged to participate in scientific meets for paper / poster presentations.

*** Publication-based promotion/incentives.**

- The Faculty are provided an incentive of up to Rs. 8,000/- and Rs. 4,000/- for publication in international and national peer-reviewed indexed journal respectively.
- Publications in reputed journals are an important criteria for faculty promotions.

*** Providing travel grant for attending national/international conference and workshops.**

The University provides financial assistance towards travel, accommodation and registration charges for participating and presenting paper/poster presentation/or for being chairman/resource person for scientific sessions at national/international conference and workshops.

3.1.14 Does the institution facilitate

- * **R&D for capacity building and analytical skills in product development like diagnostic kits, biomedical products, etc. for the national / international market**
- * **Development of entrepreneur skills in health care**
- * **Taking leadership role for stem cell research, organ transplantation and harvesting, Biotechnology, Medical Informatics, Genomics, Proteomics, Cellular and Molecular Biology, Nanoscience, etc.**

Yes

Initiation :

The University has been trying to enhance the positive impact on community health profile by implying core analytical skills.

Sustenance :

- * **R&D for capacity building and analytical skills in product development like diagnostic kits, biomedical products, etc. for the national / international market**
- The University Research foundation is acclaimed worldwide for its contribution in the field of woman & child health. It is **one of the leading sites of Global Network of NICHD, USA.**
- The institutes of Pharmacy train the undergraduates and postgraduates through Workshops and Seminars for capacity building and analytical skills in product development like diagnostic kits, biomedical products, etc. for the national / international market.

- R&D department of KLE VK Institute of Dental Sciences has obtained two patents namely, ATP Blind Brushing Technique, Turmeric Gel formulation as an adjunct to scaling and root planning to its credit which has enhanced analytical skill in product development for national and international market.
- The Pharmacy institutes have one patent to their credit and nine are under process.
- Excellent infrastructure of the campus facilitates advanced research to cater formulation development needs of some of the pharmaceutical industries. The technology/process developed in the Dept. of Pharmaceutics of the College of Pharmacy, Bengaluru, has been transferred to SPI Pharma located in Electronic city, Bengaluru where it has been scaled-up successfully before being marketed.
- R&D Department of KLE Sri BMK Ayurveda College does preparation of Swarnabinduprashana and administers in every pushayanakshatra to children from birth to 5 years. The Institute is in the process of applying two patents for biomedical products.

*** Development of entrepreneur skills in health care**

- Entrepreneur skills in health care are cultured into the students from undergraduate level itself.
- Orientation is given to students for drug manufacturing at postgraduate level in Pharmacy and Ayurveda colleges. Visits to Pharmaceutical industries are regularly organized.
- The students are encouraged to organize collegiate, inter-collegiate, state level and national level competitions under the supervision of faculty.
- Periodic training programs are provided to students in Management, Biomedical Sciences and the like.
- Institution facilitates the development of entrepreneur skills in health care by organizing guest lectures on topics like Personality Development including Entrepreneurship Skills, Intellectual Property Right, A to Z of Drug Development, Drug Discovery and Development, etc.

*** Taking leadership role for stem cell research, organ transplantation and harvesting, Biotechnology, Medical Informatics, Genomics, Proteomics, Cellular and Molecular Biology, Nanoscience, etc.**

- Ayurgenomics project titled “Identification of genomic correlates of prakriti in healthy individuals from Dravidian population of North Karnataka”, is carried out by KLE Sri BMK Ayurveda Mahavidyalaya, Belagavi in association with Institute of Genomics and Integrative Biology of CSIR, New-Delhi.
- The University boasts of having Dr. Prabhakar Kore Basic Science Research Laboratory of 10,000 Sq.ft. area with a vision to become a force to be reckoned with, in the field of research and create motivated individuals to engage in basic research by providing critical research skills through scientifically-designed programmes.
- Scientists of Pharmaceutical analysis, biotechnology, nano-particles and microbiology are engaged in quality research.
- There are five animal houses in the University, two within campus and three off-campus. They are duly registered with CPCSEA. A qualified veterinary doctor looks after the animal house.
- Herbal garden facility available for Ayurveda and Pharmacy research.
- Besides manpower development, research activities are initiated in basic science, biotechnology, bioinformatics, microbiology, cellular and molecular biology, nano-science and tissue culture research.

Enhancement :

- The Research Foundation of University and UDEHP are actively involved in capacity building and development of entrepreneur skills.
- The University has two well-equipped Basic Science Research centers for capacity building, analytical skill development, and establishing leadership role in tissue culture, genomics, molecular biology and nano-science research. The eminent scientists appointed at these centers alongwith national and international scientists conduct workshops and training programs for development of entrepreneur skill in health care for its faculty and students.
- Genomic laboratory at Ayurveda College has been established.
- Organ transplant facilities are available at teaching hospital.

3.1.15 Are students encouraged to conduct any experimental research in Yoga and / or Naturopathy?

Yes

Initiation :

Yoga and naturopathy involve the concept of holistic health with power of healing using natural elements. The basic approach of yoga is to cultivate positive and spiritual attitude towards life situations. Through interdisciplinary research activities, the health science students are encouraged to conduct experimental studies for holistic treatment using psycho-physiological mechanism of the individual.

Sustenance :

- The Institute of Physiotherapy encourages experimental research in Yoga / Naturopathy as they are an important aspect of today's physiotherapy practice. The UG students are trained in different yogic postures, acupuncture, craniosacral therapy, magneto therapy, etc. as a part of their curriculum. Several experimental research projects in Yoga/ Naturopathy have been carried out by PG students and faculty independently as well as, in association with colleges of Ayurveda and Nursing.
- The Central Research Facility at College of Ayurveda, Belagavi has undertaken several research projects in alternative medicines including, yoga and naturopathy.

Enhancement :

- In today's arena of research, immense importance is given to research in alternative medicine with funds from national and international agencies. This has motivated to conduct experimental research in yoga / naturopathy to know their effectiveness for clinical application.
- College of Ayurveda has established **Garbha Samskara** (Music, Mantra, yoga and diet) and **Utsaha** (lifestyle management and rejuvenation center).

3.2 Resource Mobilization for Research

3.2.1 How many departments of the institution have been recognized for their research activities by national / international agencies (ICMR, DST, DBT, WHO, UNESCO, AYUSH, CSIR, AICTE, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.

Initiation :

The Departments of constituent units have been recognized for their research activities by various national / international agencies.

Sustenance :

- OBG Department of JNMC has Human Reproduction and Research Collaborating Center (HRRCC)-215 of ICMR which facilitates, conducts and promotes research in human reproduction.
- DOME (Department of Medical Education) of J.N. Medical College, Belagavi is recognized by MCI as Nodal Center in Advanced Medical Education Technology to cover this part of the country with 39 institutes under its umbrella.
- Research projects have been carried out under NICHD (USA), WHO, ICMR, AICTE, AYUSH, DBT, DST, CSIR, VGST, etc.
- Quantum of assistance received from NICHD, ICMR, DST, DBT, WHO, AYUSH, CSIR, AICTE, VGST, etc. is indicated below:

Sl. No.	Department	National / International Agencies	Amount in Rupees
	J. N. Medical College, Belagavi <ul style="list-style-type: none"> • Research Foundation • Microbiology • Obstetrics • Paediatrics • Physiology • Biochemistry • Community Medicine • Pathology 	National Agencies – ICMR, VGST, FW Div. of DHR International Agencies – <ul style="list-style-type: none"> • NICHD, USA • WHO, • Thrasher Research Fund, USA • Bill and Melinda Gate's Foundation, USA • International Atomic Energy Agency, Vienna 	2,37,80,191 28,14,27,000

Sl. No.	Department	National / International Agencies	Amount in Rupees
	KLE Sri BMK Ayurveda College, Belagavi <ul style="list-style-type: none"> • Dravyaguna • Panchakarma • Agadtantra • Swastavritta • Rasashastra & Bhashyajakalpana 	National <ul style="list-style-type: none"> • AYUSH • VGST • DST • CSIR 	58,19,800
Total			Rs.33,94,68,672
Rs. 33 crores 94 lakhs 68 thousand 6 hundred and 72 only			

3.1.1 Significant outcomes or breakthroughs achieved by this recognition.

1. **Landmark trial of oral misoprostol** produced a wealth of evidence, regarding PPH identification and prevention and stimulated both national and international policies. As visual estimation of blood loss is inaccurate, the study team developed and validated the BRASSS-V calibrated blood collection drape to measure postpartum blood loss.
2. The **First Breath and Helping Babies Breathe** studies provided the critical evidence in support of the Government of India's Navajet Shishu Suraksha Karyakram (NSSK) basic newborn and resuscitation program.
3. New Chemical entities in different areas have been synthesised and screened. Research activities of the institution have contributed much to subject knowledge which have been published in various Peer reviewed journals.
4. A break-through has been achieved in drug discovery by the Department of Pharmaceutical Chemistry in collaboration with IISc, Bengaluru in cancer research that has disseminated in the form of publication in high impact journal. The outcome of the discovery has been filed for an Indian, as well as, world patent.

Enhancement :

- Establishment of Ayurgenomic laboratory by CSIR in College of Ayurveda is a major outcome.

- The Pharmacy and Ayurveda colleges of the University have procured equipments and softwares from the grants received under various schemes. This facility has immensely helped the faculty members to offer consultancy in formulation development and analysis of prototype formulations.
- These facilities offer promotional avenues for translational research and patency in the institutions.
- Research activities of the constituent units have contributed much to subject knowledge which have been published in various peer-reviewed journals of high impact factor ranging from **54.42** to 0 (average-0.67).

3.2.2 Provide the following details of ongoing research projects of faculty:

	Year- wise	Number	Name of the funding Agency	Total grant received (in Rs.)
A. University awarded projects				
Minor projects	2010-11	05	Rajiv Gandhi University of Health Sciences, Bengaluru	12,500.00
	2011-12	08	Rajiv Gandhi University of Health Sciences, Bengaluru	12,500.00
	2012-13	07	Rajiv Gandhi University of Health Sciences, Bengaluru	12,500.00
	2013-14	20	Rajiv Gandhi University of Health Sciences, Bengaluru	12,500.00
	TOTAL	40		50,000.00
Major projects	2010-2011	02	KLE University, Belagavi	20,000.00
	2011-12	03	KLE University, Belagavi	20000.00
	2012-13	05	KLE University, Belagavi	45,000.00
	2013-14	06	KLE University, Belagavi	90,000.00
	TOTAL	16		1,75,000
B. Other agencies - National and International (specify)				
Minor projects	2010-2011	10	KSAPS, Bengaluru, ICMR,	13,87,000
	2011-12	14	KSAPS, Bengaluru, ICMR	8,85,000
	2012-13	18	KSAPS, Bengaluru, ICMR, VGST, VGST (SPICE),	34,11,208

	2013-14	11	KSAPS, Bengaluru, ICMR VGST, National Chemical Laboratory, CSIR, Pune, VGST (SPICE)	15,30,000
	TOTAL	53		Rs. 72,13,208
Rs. 72 lakhs 13 thousand 2 hundred and 8 only				
Major projects (enclosed)	2010-11	04	KSAPS, Bengaluru, ICMR, Dept. of AYUSH, New Delhi	1,32,40,450
	2011-12	07	VGST (SPICE) Dept. of IT, BT and S&T, Govt. of Karnataka, All India Council for Technical Education, New Delhi, Under RPS	2,43,89,941
	2012-13	10	CSIR- Institute of Genomics and Integrative Biology, Delhi	3,57,44,670
	2013-14	13	<ul style="list-style-type: none"> • Muzumdar Shaw Cancer Center; Johns Hopkins University and Boston University, USA, • CSIR- Institute of Genomics and Integrative Biology, Delhi, • Interactive research school for health affairs, Bharati Vidyapeeth Deemed University Pune. 	4,13,21,494
	TOTAL	34		Rs. 11,46,96,555
Rs. 11 crores 46 lakhs 96 thousand 5 hundred and 55 only				

3.2.3 Does the institution have an Intellectual Property Rights (IPR) Cell ?

Yes

Initiation :

The Intellectual Property Rights (IPR) Cell has created awareness among students and faculty and has nurtured creative and innovative talents.

Sustenance :

- The Research and Development Committee of the University has Intellectual Property Rights (IPR) Cell to reserve the rights of research work conducted.
- The Cell has intellectual property registry in which every research work carried out in the institution is given an IPR number and an undertaking is obtained from the principal investigator.
- University conducts IPR workshops for faculty and students.

3.2.4 Has the institution taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted ?

Yes

The Faculty and students are made aware of IPR and patent policies.

- The University has taken special efforts to encourage its faculty to file for patents by providing -
 - Incentives
 - Guidelines from experts
 - Establishing MoUs
 - Infrastructure facilities
 - Training on how to apply for patency

Patent registered : Three (3)

- **Title of invention:**
A process for preparation of Nanocrystals of Lovastatin
No:249912
- **Title of invention:**
Turmeric gel formulation as an adjunct to scaling and root planning
Application no.4418/CHE/2013A

- **Title of invention:**

Audio Tactile Performance (ATP) technique for training visually impaired children in oral hygiene

Docket no:24253

Four patents have been accepted & published, and ten more have been filed.

3.2.5 Does the institution have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received.

Yes

Initiation :

- The research and development cells of all constituent units have been encouraging research and interactions with various pharmaceutical industries and organizations.
- This has enabled the faculty to acquire research grants from renowned international and national agencies, government agencies, industry and corporate houses.

Sustenance :

A total of Rs. 84 lakhs has been received for the following clinical trials from 2010-14.

Sl. No	Title	Funding Agency
1.	Protocol number: AMR-01-01-0019: "A Multicenter, prospective, randomized, double blind, placebo-controlled, parallel-group study to evaluate the effect of AMR101 on cardiovascular health and mortality in hypertriglyceridemic patients with cardiovascular diseases or at high risk for cardiovascular diseases: REDUCE-IT (Reduction of Cardiovascular Events with EPA – Intervention Trial)"	Pharmanet CRO
2.	Protocol title: "A proof of concept, parallel design, single treatment, double arm trial of 50 mg quick dissolve tablets containing freeze dried <i>Lactobacillus delbrueckii subsp. bulgaricus</i> lysate (GenCix™) from FraXon technologies Inc., USA, conducted on treatment naïve chronic hepatitis C positive patients in one arm and treatment naïve chronic hepatitis C positive patients on dialysis in the other arm"	Norwich

Sl. No	Title	Funding Agency
3.	Protocol Number: GPL-CT/20111011/III “A Phase III, randomized, open label, Non- inferiority, active-controlled comparative, parallel group, multicentric study of fixed dose combination of formoterol 12 µg plus fluticasone 250 µg as DPI (Test Drug) with the commercially available fixed dose combination of Salmeterol 50µg and Fluticasone250 µg (Seretide™ Accuhaler™ 50/250 µg) as DPI in a 12-week Treatment period of adolescent and adult subjects with moderate-severe stable persistent asthma”	Glenmark
4.	Protocol title - C003 – “A double blind, randomized, placebo controlled, parallel group, three arm, multicenter and multinational pivotal study to assess the efficacy and safety of two dosage regimens of Crofelemer tablets in the treatment of moderate to severe acute watery diarrhea in adult patients.”	Glenmark
5.	Protocol title -“A phase II/III randomized, single blinded, active controlled study to evaluate the immunogenicity and safety of inactivated Japanese encephalitis vaccine in healthy volunteers”.	Bharat Biotech
6.	Trial no: BECT/JEV-PII-III/018, Protocol no: bect018/jev-pii-iii/ctp-02 “A multicentric, open label randomized controlled phase ii/iii study to evaluate the safety and immunogenicity of be’s inactivated je vaccine in healthy ≥ 1 to <3 year old Indian children”	Biological E. Limited
7.	Protocol number: PBL/CR/0032008/CT “A randomized, multicenter, open label, comparative study to evaluate the Immunogenicity and reactogenicity of a new fully liquid pentavalent DTwP-Hib-IPV vaccine <i>EasyfourPol™</i> , Panacea Biotech Ltd) with tetravalent DTwP/Hib vaccine (<i>TetrAct-Hib™</i>), co-administered with <i>Imovax Polio®</i> (Salk Based Inactivated Polio Vaccine) of Sanofi Pasteur India Pvt. Ltd. In healthy infants.	Panacea
8.	Protocol number : RLS/TP/2010/03: “Prospective, multicentric, open label, clinical study to evaluate efficacy and safety of R-TPR-004 in patients undergoing treatment for acute ischemic stroke”	Reliance
9.	Protocol number: DU176b-C-U305: “A phase 3, randomized, double-blind, double-dummy, parallel-group, multi-center, multi-national study for the evaluation of efficacy and safety of (lmw) heparin/edoxaban versus (LMW) Heparin/Warfarin in subjects with symptomatic deep-vein thrombosis and/or pulmonary embolism”	Quintile

Sl. No	Title	Funding Agency
10.	Protocol number BC22140 ALEGLITAZAR (RO0728804): “Phase 3 multicenter, randomized, double-blind, parallel group, placebo controlled study cardiovascular outcomes study to evaluate the potential of aleglitazar to reduce cardiovascular risk in patients with a recent acute coronary syndrome (ASC) event and type 2 diabetes mellitus (T2D)”	George Institute
11.	Protocol title: “A phase II, randomized, open label, single subcutaneous dose study of polysialylated erythropoietin to assess safety, pharmacodynamic & pharmacokinetics in chronic kidney disease patients not on dialysis.”	Clinigene, International Ltd
12.	Protocol number: DU176b-C-U301: “A Phase 3, randomised, double-blind, double dummy, parallel group, multi-center, multi-national study for evaluation of efficacy and safety of du-176b versus warfarin in subjects with atrial fibrillation- effective anticoagulation with Factor xA Next Generation in atrial fibrillation” (ENGAGE– AF TIMI – 48)	Quintile
13.	Protocol title: “A phase III, open-label, randomized, multicenter study to evaluate the immunogenicity and safety of GlaxoSmithKline Biologicals’ combined DTPa-HBV-IPV/Hib vaccine (Infanrix hexa™) administered to Indian infants according to 6-10-14 weeks and a 2-4-6 months schedule”.	GlaxoSmithKline
14.	Protocol number TRI08888 GARFIELD:“Prospective, multicentre, international registry of male and female patients newly diagnosed with atrial fibrillation”.	Thrombosis Research Institute
15.	Protocol Study Number: SH501:“Safety, immune lot-to-lot consistency and non-inferiority of Shan 5 (DTwP-HepB-Hib) vaccine in comparison to pentavac SD when administered as a single booster dose at 15-18 months and three dose at 6-8,10-12 and 14-16 weeks of age in healthy indian children and infants”	SHAN Pharmaceuticals
16.	Protocol number: GPL/CT/2012/III: “A randomised, double-blind, comparative, prospective, multicentre, parallel study to assess efficacy, safety and tolerability of Repaglidine/Metformin IR tablet monotherapy or repaglidine tablet monotherapy in adult patients with type 2 diabetes mellitus inadequately controlled on metformin alone”.	Glenmark

Sl. No	Title	Funding Agency
17.	Protocol number: CV181169 :A multicentre, randomised, double-blind, active-controlled, parallel group, phase 3 trial to evaluate the safety of add-on therapy with Saxagliptin and Dapagliflozin added to Metformin compared to add-on therapy with Saxagliptin in combination with Metformin or Dapagliflozin in combination with Metformin in Subjects with type 2 Diabetes who have inadequate glycemic control on Metformin alone.”	ICON Clinical Research-Company
18.	Protocol number: GRC17536-203: “A Phase 2, 4-week randomized, double-blind, parallel group, placebo controlled proof of concept study to evaluate efficacy, safety and tolerability of grc 17536 in patients with painful diabetic peripheral neuropathy.”	Glenmark
19.	Protocol number: P2202/47/10: “A Phase II, randomized, double-blind, placebo-controlled, dose-ranging, two-staged, fixed design study to evaluate the efficacy, safety, tolerability and pharmacokinetics of p2202 in overweight/obese patients of type 2 diabetes mellitus inadequately controlled on metformin, sulphonylurea, or both.”	Piramal Healthcare
20.	Protocol no: 20110118:“A double-blind, randomized, placebo-controlled, multicenter study assessing the impact of additional LDL-cholesterol reduction on major cardiovascular events when AMG 145 is used in combination with statin therapy in patients with clinically evident cardiovascular disease”.	Amgen Technology Pvt.ltd
21.	Study title: “A Phase III prospective, randomized, open labelled, multicentric, parallel group, three arms clinical study to evaluate the efficacy and safety between monotherapy of Glenmark’s Roflumilast 500 Mcg Tablet and Combination Therapy of Roflumilast 500 Mcg Tablet Plus Tiotropium 9 mcg inhalation and combination therapy of roflumilast 500 mcg tablet plus salmeterol 25mcg inhalation in adult patients with chronic obstructive pulmonary disease (COPD).”	Glenmark
22.	Protocol title: “A multicentric randomized , comparative clinical trial to assess the immunogenicity and reactogenicity of DPTw [meat free] vaccine with standard commercially available DPTw [routine] vaccine in Indian children aged 6 –14 weeks”.	Serum Institute

Sl. No	Title	Funding Agency
23.	Protocol title: To study the safety and efficacy of R-TPR -001 (Reteplase- Recombinant plasminogen activator) in patients with acute myocardial infarction and ST segment elevation”.	Reliance
24.	Protocol title: EX 1000-1919: A multicentre, multinational, randomized, open labeled, two armed, parallel group trial with a 24 week treatment period comparing the efficacy and safety of two concentrations of Mixtard 30 (333IU/mL) or Mixtard 30 (1000IU/mL)”.	Novonordisk
25.	Protocol title: A Phase III , multicenter, randomized , double – blind study to evaluate the efficacy and safety of sitagliptin versus glipizide in patients with type 2 diabetes mellitus and chronic renal insufficiency who have inadequate glycemic control”	SMO India.
26.	Protocol title: “CRASH-2” a large randomized placebo controlled trial among trauma patients with, or at risk of, significant hemorrhage of the effects of antifibrinolytic treatment on death and transfusion requirement	WHO
27.	Protocol title: “A multicentric, randomized comparative clinical trial to assess the immunogenicity and tactogenicity of DTPw Hib (absorbed0 vaccine (PRP>10MG).	Serum Institute of India, Pune.
28.	Protocol title: “BC-06: A double-blind, randomized, multiple dose, phase III, multi-centre study of Alpharadin TM in the treatment of patients with hormone refractory prostate cancer with skeletal metastases”.	Pharma Net Development Group
29.	Protocol title: “FIK-MC-EVDP, Efficacy and safety of Drotrecogin Alfa [activated] in adult patients with septic shock”.	Parexell
30.	Protocol title: A Phase IV multicentric, randomized, comparative clinical trial to assess the immunogenicity and reactogenicity of two different lots of DTwPHB+Hib (Pentavac) vaccine.	Serum Institute of India Ltd., Pune
31.	Protocol title: “multi-center, double blind, randomized, controlled, parallel comparison of efficacy and safety of fixed doses of two formulations of botulinum toxin type a in treatment of moderate to severe cervical dystonia	Botox Dysport
32.	Protocol title: To study the safety and efficacy of R-HSC-001 in patients with spinal cord injury	Reliance

Sl. No	Title	Funding Agency
33.	Protocol title: comparison of measurement of arterial blood pressure by L&T NIBP module with invasive arterial blood pressure in neonates	L&T
34.	Protocol title: A randomized, multicentric, double blind, comparative, phase III study to evaluate the safety and immunogenicity of BBIL's monovalent poliomyelitis vaccine type 3 live (oral) vs reference vaccine in healthy neonates.(Non-inferiority trial)	Bharat Biotech India Ltd
35.	Protocol title: A randomized, multicentric, double blind, comparative phase III study to evaluate the safety and immunogenicity of BBIL's bivalent poliomyelitis vaccine type 1 & 3 live (oral) Vs reference vaccine in healthy neonates. (Non-inferiority trial)	Bharat Biotech India Ltd
36.	Protocol title: BBIL/POL/04/2007 "A randomized, multi center, double blind, comparative phase III study to evaluate the safety and immunogenicity of BBIL'S monovalent type 1 oral polio vaccine vs pre-qualified trivalent oral polio vaccine in healthy neonates. (Non-inferiority Trial)"	Bharat Biotech India Ltd
37.	Protocol title: To study the safety and efficacy of ReliDerm [®] DT in patients with chronic diabetic foot ulcer	Reliance
38.	Protocol no: 28431754DIA3008 "A randomized, double-blind, parallel, placebo-controlled, multicenter study of the effects of JNJ-28431754 on cardiovascular outcomes in adult subjects with type 2 Diabetes mellitus. The CANVAS trial (CANagliflozin cardiovascular assessment study)".	George Institute
39.	Protocol title: "International, multi-center, randomized, double blind study to compare the overall mortality in acutely ill medical patients treated with enoxaparin versus placebo in addition to graduated elastic stockings"	Reliance
40.	Protocol no. MK-0431-229-00: "A Phase III randomized clinical trial to evaluate the safety and efficacy of the addition of sitagliptin 100mg in patients with type 2 Diabetes mellitus who have inadequate glycemic control on a sulfonylurea in combination with Metformin".	Merck & Co – Company

Sl. No	Title	Funding Agency
41.	Protocol title: “A Phase III, randomized, multicenter, controlled study to evaluate the immunogenicity and safety of BBIL’s Typhoid Vi capsular polysaccharide – tetanus toxoid protein conjugate vaccine Vs reference vaccine in healthy subjects”.	Bharat Biotech – Company.
42.	Protocol title: A Multicentric double blind single arm randomized phase IV study to evaluate the safety, reactogenicity and lot consistency of three production lots of BE’s combined liquid Pentavalent DTwP-rHepB-HIB vaccine administered at 6-10-14 weeks schedule to 6-8 week old healthy Indian infants.	Biological E. Limited – Company
43.	Protocol no: GLP114130: “A randomized, double-blind, active-controlled, parallel group, multicenter study to determine the efficacy and safety of Albiglutide as compared with Sitagliptin in subjects with type 2 Diabetes mellitus with renal impairment”	SMO India – CRO
44.	Protocol title: A prospective multicenter observational study to characterize the patient population with cholestasis in chronic liver disease due to non-alcoholic liver disease receiving heptal in India[P13-163]	Abbott
45.	Protocol number: PBL/CR/0032008/CT “A randomized, multicenter, open label, comparative study to evaluate the immunogenicity and reactogenicity of a new fully liquid Pentavalent DTwP-Hib-IPV vaccine (<i>easyfourPol</i> TM) with tetravalent DTwP/Hib vaccine (<i>TetrAct-Hib</i> TM), co-administered with <i>Imovax Polio</i> ® (<i>Salk Based Inactivated Polio Vaccine</i>) of Sanofi Pasteur India Pvt. Ltd. In Healthy Infants.	Panacea Biotech Ltd
46.	Protocol no: MB102073: “A multicenter, randomized, double-blind, placebo-controlled, parallel group, phase iii trial to evaluate the safety and efficacy of dapagliflozin in subjects with type 2 Diabetes with inadequately controlled Hypertension on an angiotensin-converting enzyme inhibitor (ACEI) or angiotensin receptor blocker”.	ICON
47.	Protocol no: MB102077: “A multicentre, randomized, double-blind, placebo-controlled, parallel group, phase III trial to evaluate the safety and efficacy of Dapagliflozin in subjects with type @ Diabetes with inadequately controlled hypertension treated with an angiotensin-converting enzyme inhibitor (ACEI) or angiotensin receptor blocker (ARB) and an additional antihypertensive medication”.	ICON

Sl. No	Title	Funding Agency
48.	Protocol number: MK-0822: “Phase III randomized, placebo –controlled clinical trial to assess the safety and efficacy of Odanacetib (mk-0822) to reduce the risk of fracture in osteoporotic post menopausal women treated with vitamin D and calcium”.	Clinigene International Ltd
49.	Protocol title: “Comparative efficacy, safety and tolerability of Minocycline extended release tablets (45 and 65 mg) and Minocycline modified release capsules (100 mg) in the treatment of moderate to severe acne vulgaris - an open-label study” (study number: 2014001).	Ranbaxy
50.	Protocol: Phase III clinical trial entitled “Comparative efficacy, safety and tolerability of Silver sulfadiazine cream (nanonized) 0.5% w/w and silverex cream 1% w/w in the prophylaxis of infection in burn wounds – a double-blind, randomized, pivotal study”	Ranbaxy
51.	Protocol no KP231: ‘Double-blind, randomized, placebo-controlled study to evaluate the efficacy of <i>Bacillus subtilis</i> strain PB6 in the prevention of antibiotic-associated diarrhea (AAD) in hospitalized subjects receiving antibiotic therapy”.	KEMIN - company
52.	Trial no: BECT/JEV-PII-III/018, Protocol no: bect018/jev-pii-iii/ctp-02 “A multicentric, open label randomized controlled phase II/III study to evaluate the safety and immunogenicity of be’s inactivated JE vaccine in healthy ≥ 1 to <3 year old Indian children”	Biological E. Limited - Company
53.	Protocol no: 1218.60: “A randomised, double-blind, double dummy, active-comparator controlled study investigating the efficacy and safety of Linagliptin co-administered with Metformin QD at evening time versus Metformin BID over 14 weeks in treatment naïve patients with Type 2 Diabetes mellitus and insufficient glycaemic control”.	Boehringer
54.	Protocol no: GPL/CT/2012/III:A randomised, double-blind, comparative, prospective, multicentre, parallel study to assess efficacy, safety and tolerability of repaglidine/metformin IR tablet monotherapy or repaglidine tablet monotherapy in adult patients with Type 2 Diabetes mellitus inadequately controlled on metformin alone”.	Glenmark

Sl. No	Title	Funding Agency
55.	Protocol no: CV181169 : “A multicentre, randomised, double-blind, active-controlled, parallel group, phase 3 trial to evaluate the safety of add-on therapy with saxagliptin and dapagliflozin added to metformin compared to add-on therapy with saxagliptin in combination with Metformin or Dapagliflozin in combination with Metformin in subjects with Type 2 Diabetes who have inadequate glycemic control on metformin alone”.	ICON Clinical Research-Company
56.	Protocol title - C003 - a double blind, randomized, placebo controlled, parallel group, three arm, multicenter and multinational pivotal study to assess the efficacy and safety of two dosage regimens of crofelemer tablets in the treatment of moderate to severe acute watery diarrhea in adult patients.	Glenmark - Company
57.	Protocol no:CLR_10_22 :“Efficacy and safety of SPIL’s Lubriprostone capsule, 24 mcg Lubriprostone in subjects with chronic idiopathic constipation :a randomized, double blind, parallel group, active and placebo controlled, clinical endpoint bioequivalence study”.	ZYDUS
58.	Protocol no: ZYH 1.12.001.01 PROT: “A multicenter, prospective, randomized, open label phase IV clinical study to evaluate the safety and efficacy of saroglitazar (ZYH1) as compared to fenofibrate in patients with dyslipidemia”.	SUN PHARMA
59.	Protocol title: “A demonstration project to evaluate the effectiveness and acceptability of the joint diabetes evaluation (JADE) & diabetes monitoring database(Diamond) programs in Type 2 Diabetes patients in India”.	ELI LILLY
60.	Protocol title: Protocol I4V-MC-JADX: A randomized, double-blind, placebo-controlled, phase 3 study to evaluate the efficacy and safety of baricitinib (LY3009104) in patients with inadequate response to conventional disease-modifying antirheumatic drugs with moderately to severely active rheumatoid arthritis.	ELI LILLY

Sl. No	Title	Funding Agency
61.	Protocol title: Protocol I4V-MC-JADZ- “A randomized, double-blind, active-controlled, phase 3 study to evaluate the efficacy and safety of baricitinib (LY3009104) in patients with moderately to severely active rheumatoid arthritis who have had limited or no treatment with disease modifying antirheumatic drugs”.	ELI LILLY
62.	Protocol title: I4V-MC-JADY(C): “A Phase 3, multicenter study to evaluate the long-term safety and efficacy of baricitinib in patients with rheumatoid arthritis”.	ELI LILLY
63.	Protocol SB2-G31-RA: “A randomized, double-blind, parallel group, multicentre clinical study to evaluate the efficacy, safety, pharmacokinetics and immunogenicity of SB2 compared to remicade® in subjects with moderate to severe rheumatoid arthritis despite methotrexate therapy”.	ELI LILLY
64.	Protocol I4L-MC-ABEL: “A prospective, randomized, open-label comparison of a long acting basal insulin analog, LY2963016, to lantus® in combination with mealtime insulin lispro in adult patients with type 1 diabetes mellitus: the element 3 study”.	ELI LILLY
65.	Protocol title: “Addendum to typhoid Vi polysaccharidetetanus toxoid protein conjugate phase III clinical trial protocol entitled: A phase III, Randomized,multicentre ,controlled study to evaluate the immunogenicity and safety of BBIL’s typhoid Vi capsular polysaccharide –tetanus toxoid protein conjugate vaccine (Typbar TCV) Vs. Referencevaccine (typbar) in healthy subjects.”.	BBIL
66.	Reference protocol no: CLR_13_14: Study Title: “Pharmacodynamic efficacy and safety of Leuprolide depot 7.5 mg (SPIL) in subjects with Prostatic Adenocarcinoma”.	ZYDUS
67.	Protocol No: BBIL/JEV/IV/2012A: “A Phase IV Single dose, Open labeled, Comparative, Randomized Controlled study to evaluate the Immunogenicity and Safety of BBIL’s JENVAC(Inactivated JE vaccine)Vvs. Chinese SA-14-14-2(Live JE vaccine)vaccine in healthy volunteers”.	BBIL

Sl. No	Title	Funding Agency
68.	Ref: Protocol : “Comparative efficacy, safety and tolerability of FDC of cephalexin extended release (375mg) and Clavulanate Potassium (125 mg) tablets with Cephalexin extended release (375 mg) tablets in the treatment of uncomplicated skin and soft tissue infection - a randomized, double-blind study(study number: r2013006)”.	Ranbaxy
69.	Ref: Protocol : “Comparative efficacy, safety and tolerability of FDC of Cephalexin extended release (375mg) and Clavulanate Potassium (125 mg) tablets with cephalexin extended release (375 mg) tablets in the treatment of upper respiratory tract infections - a randomized, double-blind study (study number: r2013006)”.	Ranbaxy
70.	Ref: 3-001 A randomized double-blind, placebo-controlled, Phase-3 study to assess the safety and efficacy of ART-123 in subject with severe sepsis and coagulopathy.	Asahi Kasei Pharma America Company
71.	Protocol title: “A multicenter, double-blind, vehicle controlled, parallel-group study comparing a generic Diclofenac Sodium topical gel, 1% in the treatment of subjects with osteoarthritis of the knee”.	Sristek Company
72.	Protocol no.: BBIL/ROTA/IV/2013: “Phase IV, multicenter, randomized, single-blind, study to evaluate the immunogenicity, reactogenicity & safety of the live attenuated rotavirus vaccine ROTAVAC® as a 3 dose series when administered simultaneously with or without the buffering agent following in healthy infants”.	BBIL
73.	Protocol title: MK-0822-083-00: “An observational follow-up study for: a phase III randomized, placebo-controlled clinical trial to assess the safety and efficacy of Odanacatib (MK-0822) to reduce the risk of fracture in osteoporotic postmenopausal women treated with vitamin D and calcium (protocol 018)”.	Merc Company
74.	“A comparative clinical study to evaluate the efficacy and safety of two cystone formulations in patients suffering from urolithiasis”.	Himalaya Drug Company, Bengaluru

Sl. No	Title	Funding Agency
75.	“A comparative clinical study to evaluate the efficacy and safety of gasex extract root tablet in the treatment of dyspepsia”.	Himalaya Drug Company, Bengaluru
76.	‘Non-invasive pulse-monitoring device for quick diagnostics’.	National Chemical Laboratory, CSIR, Pune
77.	“A Randomized, controlled, double blind study to evaluate the efficacy and safety of capsule progen in improving parameters of semen analysis in cases of male infertility due to defect in seminal parameters’.	Progene Research Laboratories, Belagavi
78.	“Development of instant form of Maadhutailika basti formulation and its stability study”.	KLE Ayurveda Pharmacy, Belagavi
79.	‘Antihyperlipidemic and antioxidant potential of a polyherbal formulation (GC-10) and its relevance in Diabetes mellitus “.	Green Chem Herbal Extracts and Formulations, Bengaluru.
80.	“Antioxidant status of a polyherbal formulation GC-11 in experimental animals”.	Green Chem Herbal Extracts and Formulations, Bengaluru
81.	“Wound healing activity of a poly herbal Formulation in Rodents”.	Pentacare AyurPharma, Bengaluru

Industry Institute Interaction

Sl. No.	Project title	Year	Industry
1.	Synthesis of 1,2,3,4-[1-N-methyl benzimidazole] 2-N-phenyl substituted thiazolidine 4-one derivatives for antimicrobial activity & studies on HPLC methods for assays of drugs in dosage regimen	2010-11	Okasa Pharma Ltd., Satara
2.	Development on HPLC methods for drugs in dosage forms & synthesis of 1,2-pyrazolines as possible angiotensin II blocker	2010-11	Okasa Pharma Ltd., Satara
3.	Synthesis of 1, 2,4 Triazole derivatives for antifungal activity and studies on development of HPLC method for new drug dosage form	2011-12	Okasa Pharma Ltd., Satara
4.	Synthesis of triazole derivatives for antifungal activity and development of HPLC method for new drug dosage regimen	2011-12	Okasa Pharma Ltd., Satara
5.	Development and validation of analytical techniques for new drug and dosage form	2012-13	Okasa Pharma Ltd., Satara
6.	Development and validation of analytical techniques for new drug and its formulations	2013-14	Sanofi Aventes Ltd, Goa

7.	An HPLC method development, validation and stability indicating studies for new drug dosage form	2012-13	GetZ Pharma Research, Thane, Mumbai
8.	Formulation and evaluation of propranolol oral spray	2010	Lincoln Pharmaceutical Ltd, Gujarat
9.	Studies on development and evaluation of osmotically controlled drug delivery system of Lornoxicam-Cyclodextrin complex	2010	Zydus Cadila Pharma Ahmedabad
10.	Design and optimization of enteric coated Duloxetine HCl Pellets in hard gelatin capsules for delayed release	2010	Sonafi Aventis Goa
11.	Design and characterization of Diclofenac diethylamine in adhesive type transdermal therapeutic system	2011	Spharsh Pharma, Hyderabad
12.	Formulation and evaluation of topical gel of Oxycam derivative	2011	Kusum Health Care Pvt Ltd, Alwar, Rajasthan
13.	Thermoreversible mucoadhesive gel for the nasal delivery of Metaproterenol sulfate for the management of bronchospasm	2011	Hind Pharma, Bhopal
14.	Formulation and evaluation of Isoniazid and Rifamicin dispersible tablets by using two different methods	2012	Themis Medicare, Haridwar
15.	Formulation and evaluation of dispersible tablets of Deferasirox	2012	Natco Pharma Limited, Hyderabad

16.	Development of non-woven nanofiber formulation of thermo sensitive polymer blends as wound healing application	2012	National Chemical Laboratory, Pune
17.	a study on formulation and evaluation of clotrimazole embedded microsponges for topical delivery	2012	Themis Medicare, Haridwar
18.	Studies on formulation and evaluation of osmotically controlled drug delivery system of Carbamazepine	2012	Torrent Pharma, Gujarat
19.	Formulation and evaluation of extended release tablets of Glipizide	2012	Cadila Pharmaceuticals Limited, Gujarat
20.	Formulation and evaluation of fast dissolving tablets of Metoprolol succinate	2013	Arabindo Pharma Ltd, Hyderabad
21.	Preparation and in-vitro evaluation of mucoadhesive buccal tablets of Ketorolac tromethamine	2013	M S N Lab, Hyderabad
22.	Evaluation of alternative primary packaging materials for analgesic liquid oral dosage form	2010-11	GlaxoSmith Kline, Nasik
23.	Role of quality assurance in generic product development	2010-11	Matrix Lab Ltd, Hyderabad
24.	Analytical method development and validation of Glimepiride and extended release Metformin hydrochloride tablet by using HPLC method	2010-11	Lincoln Pharmaceutical Ahmedabad

25.	Formulation, evaluation of fast dissolving tablet of Sildenafil citrate and its analytical method development and validation in pure form by RP-HPLC	2010-11	Glenmark Pharmaceutical, Nasik
26.	Analytical method development and validation of Famcyclovir and Valsartan by RP-HPLC	2010-11	Startech Lab, Hyderabad
27.	Bioanalytical method development and validation of Fluoxetine hydrochloride in human plasma using hyphenated liquid chromatography-mass spectroscopy (LC-MS/MS)	2010-11	Cadila Pharmaceuticals, Ahmedabad
28.	Stability indicating RP-LC assay method development and validation for Rifampicin and Isoniazid tablet	2010-11	Cadila Pharmaceuticals, Ahmedabad
29.	Analytical method development and validation of assay of Olmesartan medoxomil, Amlodipine besilate and Hydrochlorothiazide combined in tablet dosage form	2010-11	Macleods Pharmaceutical Ltd
30.	Stability Indicating RP-HPLC method for estimation of Cefixime in tablet dosage form	2010-11	Sunrise Remedies, Gandhinagar
31.	Bioanalytical method development and validation of lansoprazole in human plasma using LC-MS/MS.	2011-12	Aizant Drug Solutions, Hyderabad

32.	Formulation and evaluation of fast dissolving tablet of Moexipril Hcl with analytical method development and validation of Moexipril HCl in pure form	2011-12	Markson Pharma Ltd, Goa
33.	Analytical method development and validation of Olanzapine by using RP-HPLC method	2011-12	Chandra lab, Hyderabad
34.	Bioanalytical method development and validation of glipizide by using LC-MS/MS	2011-12	Accutest research lab, Mumbai
35.	Analytical method development and validation of Artemether and Lumefantrine in pure and dispersible tablet form by using HPLC method	2010-11	Chandra Lab, Hyderabad
36.	Analytical method development and validation of Lacidipine by using HPLC method in pure and pharmaceutical dosage form	2011-12	Jubilant Chemsys R&D, Noida
37.	Analytical method development and validation of Nadifloxacin by HPLC method in pure form and selected dosage form	2011-12	Wockhardt R&D, Aurangabad
38.	Analytical method development and validation of Zidovudine and Lamivudine in combination by using HPLC method	2011-12	Hetro Drugs Ltd, Hyderabad
39.	An update on the uses & application of gas chromatography in compendial monographs of USP-NF	2011-12	Aventis Pharma, Goa

40.	An update on the uses & application of gas chromatography in compendial monographs of European pharmacopoeia	2011-12	Aventis Pharma, Goa
41.	Development of RP-HPLC method for the estimation of clopidogrel bisulphate	2012-13	Molecule Laboratory, Ahmedabad, Gujarat.
42.	Analytical method development and validation of Ranolazine in pure form and in Pharmaceuticaldosage form by Rp-Hplc method	2012-13	Pharma Train Kukatpally, Hyderabad
43.	Development & validation of new stability Indicating analytical method for assay of Trimetazidine dihydrochloride in bulk and pharmaceutical dosage form by HPLC	2012-13	Aurobindo Pharma ltd, Hyderabad.
44.	Method development and validation for cardiovascular drugs by stability indicating assay of a fixed dose combination by RP HPLC	2012-13	Ssnofi synthelabo ltd. Goa
45.	Method development and validation of dissolution test for suitable dosage form of Loperamide hydrochloride	2012-13	Ipca laboratories Ltd Mumbai
46.	Development and validation of stability-indicating hplc method for the assay of Pravastatin	2012-13	Sapience research laborotaries, Bhopal, M.P.

47.	Simultaneous estimation of enalapril maleate and rosuvastatin calcium in bulk and pharmaceutical dosage form by HPLC	2012-13	Cadila pharma. Ahmedabad, Gujarat
48.	Quantification of active ingredients of an anti-diabetic formulation by Rp-HPLC	2012-13	Sanofi synthelabo Ltd,Goa
49.	A validated analytical method development by HPLC used for the analysis of swab samples of Ondansetron HCL obtained after cleaning	2012-13	Glenmark generics Ltd,Goa
50	Development & validation of Rp-hplc method for the estimation of lacosamide in bulk & pharmaceutical dosage forms	2012-13	Osaka, Pharma Pvt.Ltd Ahmedabad
51	Validation of pharmaceutical water supply and purification system	2012-13	Bharat Parenterals Ltd, Vadodara
52	Simultaneous estimation of two component drug product using reversed phase HPLC	2012-13	Ranbaxy Laboratories Gurgaon
53	In-vitro regeneration studies of <i>Hynocarpus pentandra buchham.</i> - An endemic medicinal plant	2010-11	Regional Medical Research Centre RMRC Belagavi
54	Micropropagation studies on <i>Semecarpus kathalekanensis</i> Dasappa and Swaminath. Red listed medicinal plant from western ghats	2010-11	RMRC Belagavi

55	Preliminary molecular in-vivo and in vitro studies of the effect of flavonoids on the enteric bacterial pathogen	2010-11	RMRC Belagavi
56	Tissue culture studies on <i>Jasminum malabaricum</i> wight for micropropagation	2010-11	RMRC Belagavi
57	Preliminary immunological investigation of pathogenic <i>E. coli</i> infection on animal model	2010-11	RMRC Belagavi

Enhancement :

- The three colleges of Pharmacy are NBA accredited with state-of-art infrastructure, and highly experienced and qualified faculty (95% are Ph.D holders). This has increased the number of projects sponsored by industries.
- The medical consultants with their practice and expertise, and extensive patient load have been able to attract pharma companies to sponsor drug trials in our University.

3.2.6 List details of

- Research projects completed and grants received during the last four years (funded by National/International agencies).**
- Inter institutional collaborative projects and grants received**
 - National collaborations**
 - International collaborations**

- A total of **101 research projects** and **81 clinical trials** have been completed and a total grant of **Rs. 3282.3 lakhs and 84 lakhs** respectively have been received from national / International / industries in last 5 years. List of Research projects is as follows:

Total amount in Rs. 3366.3 Lakhs

(33 crores 66 lakhs and 30 thousand)

International Research Projects at J N Medical College, Belagavi

Sl. No	Title / Department	Type Major / Minor	Status	Funding Agencies	Amount (Rs.in Lakhs)
JNMC					
1.	Maternal and Newborn Health Registry (MNH Registry) Dept. of OBG & Paediatrics	Major	ongoing	National Institute of Child Health and Human Development, National Institutes of Health, USA.	611.05
2.	Helping babies breathe initiative Dept. of Paediatrics	Major	ongoing	Global Implementation Task Force of American Academy of Pediatrics, USA	343.62
3.	The CLIP (Community Level Interventions for Pre- Eclampsia) Cluster randomized controlled trial Dept. of OBG	Major	ongoing	Bill and Melinda Gates Foundation, USA	342.46
4.	Does Implementation of Helping Babies Breathe (HBB) save lives? Dept. of Paediatrics	Major	completed	National Institute of Child Health and Human Development, National Institutes of Health, USA	340.89
5.	Antenatal corticosteroids trial in preterm births to increase neonatal survival in developing countries (ACT) in Belagavi District, Karnataka, India Dept. of OBG & Paediatrics	Major	completed	National Institute of Child Health and Human Development, National Institutes of Health, USA	288.83

6.	Emergency obstetrics and newborn care (EmONC Project) Dept. of Paediatrics & OBG	Major	completed	National Institute of Child Health and Human Development, National Institutes of Health, USA	188.49
7.	Women first: Preconception maternal nutrition: A randomized trial Dept. of OBG	Major	ongoing	Global Network for Women's and Children's Health Research in Collaboration with the Bill and Melinda Gates Foundation	168.30
8.	Brain research to ameliorate impaired neurodevelopment: Home-based intervention trial (BRAIN HIT) Dept. of Paediatrics	Major	completed	National Institute of Child Health and Human Development, National Institutes of Health, USA The National Institute of Neurological Disorders and Stroke (NINDS) Fogarty International Center	114.96
9.	Two community strategies comparing use of misoprostol for early treatment / secondary prevention to primary prevention for postpartum hemorrhage: a randomized cluster non-inferiority study in Vijayapura district, Karnataka, India Dept. of OBG	Major	completed	Bill and Melinda Gates Foundation, USA	95.02

10.	KLES Smile Train Project	Major	ongoing	Smile Train, New York	81.99
11.	KLES Smile Train Project	Major	ongoing	Smile Train, New York	54.12
12.	KLES Smile Train Project	Major	ongoing	Smile Train, New York	52.80
13.	Active management of the third stage of labour without controlled cord traction: A randomized non-inferiority controlled trial Dept. of OBG	Major	completed	RHR Division of World Health Organization, Geneva, Switzerland	42.04
14.	KLES Smile Train Project	Major	ongoing	Smile Train, New York	36.90
15.	Clindamycin to reduce preterm birth in low resource setting: A randomized placebo controlled trial Dept. of OBG	Major	ongoing	Thrasher Research Fund, USA	33.58
16.	Safe childbirth checklist – single site pilot study Dept. of Paediatrics	Major	completed	The Children Investment Fund Foundation, USA	11.18
17.	HIV – Couple violence survey Dept. of OBG	Major	completed	Research Triangle Institute USA	9.00
18.	Pilot study of an indicator to measure intrapartum stillbirth and immediate neonatal death (ISINDI) Dept. of OBG	Major	completed	Engender Health, USA Maternal Health Task Force, USA	4.40

19.	Zinc and iron bioavailability from bio-fortified pearl millet Dept. of Paediatrics	Major	completed	International Atomic Energy Agency, Vienna	3.6
Total					2516.69

National Research Projects at J N Medical College, Belagavi

Sl. No.	Title / Department	Type Major / Minor	Status	Funding Agencies	Amount (INR) received in Lakhs
1.	Utility of biomarkers (CA125, HE4 & osteopontin) & molecular screening of BRCA1 gene mutations in diagnosis of ovarian tumors	Major	Ongoing	Dept of Biotechnology, New Delhi	51.00
2.	Training of faculty for Good Laboratory Practice Dept. of Pathology	Major	Ongoing	Ministry of Health and Family Welfare under Scheme of Human Resource Development for Health Resources (DHR) in the subject areas of Geriatrics and Good Laboratory Practices (GLP).	30.00

3.	Ca Cervix screening in HIV infected women Dept. of OBG	Major	Completed	Vanderbilt University, US- ICMR	290.00
4.	HIV-HPV project Dept. of OBG	Major	Ongoing	ICMR National Aids Research Institute, (NARI) Pune & Vanderbelt University Nashville,USA	21.19
5.	Improving cervical cancer prevention among HIV infected women using novel HPV based biomarkers assay Dept. of OBG	Major	Ongoing	NCI US-ICMR	21.00
6.	Molecular characterization of Dengue serotypes	Major	Ongoing	VGST Govt of Karnataka	20.00
7.	Phase IV Multicentric study with Centchroman Dept. of OBG	Major	Ongoing	ICMR	9.31
8.	DLHS -4 : district level household women survey Dept. of OBG	Major	Ongoing	Community based	8.8

9.	Baseline survey under ROAD SAFETY & emergency health care services programme at Belagavi district Dept. of Community Medicine	Major	Ongoing	Karnataka Health System Development & Reforms Project (KHSDRP) Govt. of Karnataka World Bank	5.00
10.	Road traffic accident safety programme (baseline survey) Dept. of Community Medicine	Major	Ongoing	World Bank and Karnataka Health System Development and Reforms project(KHSDRP), Bengaluru	5.00
11.	Evaluation of progesterone vaginal ring as a new contraceptive option in India Dept. of OBG	Major	Ongoing	ICMR	3.33
12.	State AIDS Reference Laboratory	Major	Ongoing	KSAPS, Bengaluru	2.88
13.	HIV sentinel surveillance	Minor	Ongoing	KSAPS, Govt of Karnataka, Bengaluru	0.90
14.	External Quality assurance for HIV testing -SRL	Minor	Ongoing	KSAPS, Govt of Karnataka, Bengaluru	0.90

15.	KHPT SHOPS TB project	Minor	Ongoing	United States Agency for International Development (USAID) and KHPT, Bengaluru	0.66
16.	A Task force Multicenter study entitled “ A study on teenage pregnancy and its outcome” Dept. of OBG	Minor	Ongoing	ICMR	0.38
17.	Comparative acceptability of male condom and FC2 female condom in Indian couples seeking contraceptive options (approved by ethics committee of institution) Dept. of OBG	Minor	Completed	ICMR	0.34
18.	Analytic study of Jatyadi, Ghrita & Jatyadi, Ghrita Avartini & its wound healing property – An Experimental study	Minor	Completed	SPICE	0.30

19.	A cross sectional study to compare serum lithium and urinary lithium in patients Dept. of OBG	Minor	Completed	ICMR New Delhi	0.25
20.	Hospital based surveillance of female genital fistula study Dept. of OBG	Minor	Ongoing	ICMR	0.25
21.	Impact of peer education on self care in Diabetes mellitus – A randomized control trial in urban field practice area	Minor	Completed	ICMR	0.25
22.	Assessment of nutritional status of under five children residing in rural area – A cross sectional study	Minor	completed	ICMR	0.25
23.	Prevalence of blood transfusion transmissible infections in voluntary & replacement donors in KLE's Dr.Pabhakar Kore Hospital & MRC	Minor	ongoing	ICMR STS	0.10

24.	A hospital based randomized controlled trial of studying the acceptability and feasibility of delivering babies on mother's abdomen	Minor	ongoing		0.10
25.	Assessment of pain perception among healthy obese male medical students- A cross sectional study	Minor	Completed	ICMR STS	0.10
26.	Lifestyle, nutritional status and physical fitness index among healthy male students of private medical college	Minor	completed	ICMR STS	0.10
27.	Use of non-prescribed antibiotics for the treatment of acute respiratory infections in under five children in urban area of Belagavi: A cross sectional study	Minor	completed	ICMR	0.10

28.	Stress & its effects on first year medical students: a cross sectional study in a medical college in south India	Minor	completed	ICMR	0.10
29.	Incidence of constipation in children and its psychological impact on child and parent	Minor	Completed	ICMR	0.10
30.	Stress induced changes in insulin and thyroid level in seriously ill patients in intensive care unit and their influence in final outcome	Minor	ongoing	ICMR	0.10
31.	Asymptomatic bacteruria in pregnant women in first trimester attending anti natal clinic	Minor	Ongoing	ICMR	0.10
Total					211.67

**International Research Project at
KLE VK Institute of Dental Sciences, Belagavi**

Sl. No.	Title / Department	Type Major / Minor	Status	Funding Agencies	Amount (INR) received in Lakhs
	Oncogrid : A multicentric study : A mobile health approach to prevention and early diagnosis of oral cancer.	Minor	Ongoing	Muzumdar Shaw Cancer Center; Johns Hopkins University and Boston University, USA	2.00

**National Research Projects at
KLE VK Institute of Dental Sciences, Belagavi**

Sl. No.	Title / Department	Type Major / Minor	Status	Funding Agencies	Amount (INR) received in Lakhs
1.	Effectiveness of Licorice varnish, fluoride varnish and combination of both on initial lesions of early childhood caries in 3-4 year old preschool children of Belagavi city – A randomized controlled trial.	Major	Ongoing	ICMR	6.00

2.	Evaluation of the role of extracellular matrix proteins tenascin in oral potentially malignant disorders and squamous cell carcinoma : an immune histochemical and cell culture study	Major	Ongoing	VGST Grant & Academic Collaboration with National Institute of Dental Craniofacial Research, National Institute of Health, Bethesda, Mary Land, USA	4.50
3.	Effect of green tea on gingival health among 18-20 years old adults a randomized control trial.	Minor	Completed	ICMR	0.10
4.	Relationship between parental perception of child's oral health using ECOHI S and ECC among preschool children in Belagavi City	Minor	Completed 2011	ICMR	0.10
5.	Awareness about oral cancer and oral potentially malignant disorder among rural population of Belagavi District	Minor	Completed	ICMR	0.10
6.	Evaluation of two health education methods regarding ill effects of tobacco in 12 years old school children – A field trial	Minor	Completed	ICMR	0.10

7.	Dental caries, erosion and its association with dietary factors among 12-15 year old school children in Belagavi City	Minor	completed	ICMR	0.10
8.	Assessment of reasons preventing regular dental care among rural population of Belagavi	Minor	Completed	ICMR	0.10
9.	Knowledge attitude and utilization of dental auxiliaries by dental practitioner in Belagavi city – A crosssectional study	Minor	Completed	ICMR	0.10
10.	Dental caries and interdental spacing among 4-6 years old rural & urban children	Minor	Completed	ICMR	0.10
11.	Oral health related knowledge attitude , practice among pregnant women of Belagavi, urban-Rural comparison	Minor	Completed	ICMR	0.10
12.	Prevalence of caries and oral hygiene status of a chronic psychiatric patients in KLE Hospital , Belagavi- A cross sectional study	Minor	Completed	ICMR	0.10
13.	Dental anxiety among children before and after dental treatment	Minor	Completed	ICMR	0.05

14.	Effectiveness of herbal & fluoridated tooth paste on plaque and gingival score among residents of working women's hostel. Randomized controlled trial	Minor	Completed	ICMR	0.05
15.	Assessment of knowledge, attitude & practices regarding tobacco smoking among 14-18 years old school & pre university students in Belagavi city, Karnataka.	Minor	Completed	ICMR	0.05
Total					11.65

**International Research Projects at KLE Institute of Nursing Sciences,
Belagavi**

Sl. No.	Title / Department	Type Major / Minor	Status	Funding Agencies	Amount (INR) received in Lakhs
	Skills development : Institutional capacity building for “enhancing midwifery & neonatal care through capacity building of midwifery lectures”. OBG Nursing & Paediatric Nursing	Major	Ongoing	UKIER UK-India Education & Research Initiative)	41.76

National Research Project at KLE College of Pharmacy, Belagavi

Sl. No.	Title / Department	Type Major / Minor	Status	Funding Agencies	Amount (INR) received in Lakhs
1.	Resolving the confusion existing in traditional system of medicine in identification of source of crude drug	Major	Ongoing	VGST	30.00
2.	Evaluation of traditional Indian medicinal plants for search of potential antiurolithiatic principals	Major	Completed	AICTE	7.23
3.	Phytochemical investigation, diauretic & anti urolithiatic activity of selected medicinal plants.	Major	Completed	ICMR	6.15
4.	Phytochemical chemical investigation of hypoglycemic activity of <i>Cassia glauca</i> and <i>Curcumis trigonus</i>	Major	Completed	UGC	6.13
5.	Design and synthesis of novel chalcones as a antimalarial agents	Major	Ongoing	CSIR - CDRI	6.00
6.	Evaluation of anti tumour & anti inflammatory properties	Minor	Completed	DST	1.60
7.	Student is exposed to solve the problem in the industry planning, solving the problems systematically & scientifically	Minor	Completed	VGST	0.30

8.	Students benefited by the research & submitted the project	Minor	Completed	VGST	0.30
9.	Students got exclusive exposure to research & learnt importance of research	Minor	Completed	VGST	0.30
10.	Students got benefited by the research opportunity by working in different environments & exposure	Minor	Completed	VGST	0.30
11.	There was a great scientific learning to students, guide & institution Two ideas were combined together to get new idea, work done was selected for National level student research competition Anveshan 2013	Minor	Completed	VGST	0.30
12.	Students learnt product oriented research created an interest among students & faculty for biodiscovery	Minor	Completed	VGST	0.30
Total					58.91

National Research Projects at KLE College of Pharmacy, Hubballi

Sl. No.	Title / Department	Type Major / Minor	Status	Funding Agencies	Amount (INR) received in Lakhs
1.	Pharmacological screening of traditional medicines under CISE (Centers of innovative science Education) grant	Major	ongoing	VGST	20.00
2.	Design, synthesis and development of in vitro enzyme inhibition methods for novel antitubercular agents under RPS	Major	completed	AICTE	14.80
3.	Implications of cytotoxic effects of medicines of plant origin on cancerous cells: A cellular and molecular study under RPS	Major	Ongoing	AICTE	13.80
4.	Screening of potential medicinal plants for cardiogenic activity under RPS	Major	Completed	AICTE	11.30
5.	Formulation, <i>In Vitro</i> and <i>in Vivo</i> Evaluation of a Novel in situ gelling guar gum based ophthalmic drug delivery system of an antibiotic under SMYSR (Seed Money to Young Scientists for Research)	Major	Completed	VGST	10.00
Total					70.00

National Research Projects at College of Pharmacy, Bengaluru

Sl. No.	Title / Department	Type Major / Minor	Status	Funding Agencies	Amount (INR) received in Lakhs
1.	Bioassay guided isolation of mosquito larvicidal principles from Western ghat plants.	Major	Completed	Indian Council of Medical Research (ICMR), Vector Science Forum, India.	22.57
2.	Use of microtron irradiation on microbial safety and medicinal quality of Ashwagandha and Kalmegh	Major	Completed	Board of Research in Nuclear Sciences (BRNS) Government of India, Dept. of Atomic Energy	20.62
3.	Design, synthesis and QSAR studies of some heterocyclic compounds for their anti HIV and cytotoxic activity	Major	Completed	Research Promotion Scheme by AICTE, Govt. of India	17.20
4.	Design of microwave assisted synthesis of some heterocyclic Compounds and QSAR studies for their anticancer and antitubercular activity	Major	Completed	Research Promotion Scheme, AICTE	14.30
5.	QSAR, design and synthesis of potential HIV-1 inhibitors	Major	Completed	Under SERC FAST Track, Department of Science & Technology, Govt. of India.	8.03

6.	Design and synthesis of 3-aryl coumarin derivatives as heat shock protein inhibitors	Minor	Ongoing	AAGCP Hyderabad	0.40
7.	Design & evaluation of ocular inserts of Dorzolamide hydrochloride using natural bioadhesive film formers	Minor	Ongoing	VGST	0.30
8.	Formulation & Evaluation of inhalable mucoadhesive microparticles of streptomycin	Minor	Completed	VGST	0.30
Total					83.72

**National Research Projects at
KLE Sri B M Kankanwadi Ayurveda Mahavidyalaya, Belagavi**

Sl. No.	Title / Department	Type Major / Minor	Status	Funding Agencies	Amount (INR) received in Lakhs
1.	AYUSH infrastructure (Research) development	Major	Ongoing	AYUSH grant Govt. of India	230.00
2.	Identification of genomic correlates' of Prakriti in healthy individuals from Dravidian population of North Karnataka	Major	Ongoing	CSIR-Institute of Genomics and Integrative Biology, Delhi	44.00
3.	Revitalization of local health traditions	Major	Completed	Department of AYUSH, New Delhi	9.02
4.	Non-invasive pulse-monitoring device for quick diagnostics	Minor	Ongoing	National Chemical Laboratory, CSIR, Pune	0.96

5.	Effect of Nakshatra (Pushya and Moola) and season on Manduk Parni (<i>Centella Asiatica Linn.</i>) in relation to pharmacognosy and phytochemical variations	Minor	Ongoing	Rajiv Gandhi University of Health Sciences, Bengaluru	0.50
6.	Profiling of biochemical & genetic parameters in obese individuals	Minor	Ongoing	Interactive Research School for Health Affairs, Bharati Vidyapeeth Deemed University, Pune.	0.42
7.	Analytical study of jatyadi ghrita and Jatyadi ghrita avartini and its wound healing property – An Experimental study	Minor	Completed	VGST & SPICE	0.40
8.	Quality assessment of water stored in vessels made of different materials	Minor	Completed	VGST & SPICE	0.30
9.	A comparative study of effect on Brassica oleracea (cauliflower) using different washing methods w.s.r.to estimation of pesticidal residue	Minor	Completed	VGST & SPICE	0.30
Total					285.90

a. Inter-institutional collaborative Projects and Grants received**i. National collaborations**

Sl. No.	Name of the institution	Collaborating institute
1	J N Medical College, Belagavi	NACO, KSAPS & UNICEF, Karnataka Health System Development & Reforms Project (KHSDRP) Govt. of Karnataka, VGST& SPICE Govt of Karnataka, KSAPS, Ministry of Health and Family Welfare, Govt of India
2	KLE VK Institute of Dental Sciences, Belagavi	ICMR Multicentric Study, GSR Craniofacial Centre, Hyderabad, Cancer Hospital Navanagar, Hubballi
3	KLE College of Pharmacy, Belagavi	Department of Chemistry, Central College Campus, Bengaluru University, SVERI's College of Pharmacy, Pandharpur, Shri Udaysing Ramsing Rajput, R. L. Science Institute, College Road, Belagavi
4	KLE College of Pharmacy, Bengaluru	Dept. of Engineering Physics, M.S.Ramaiah College of Engineering, Bengaluru, Dept. of Biochemistry, IISc, Bengaluru, Dept. of Biotechnology, Govt. Science College, Bengaluru, CFTRI, Mysore, IICT, Hyderabad, DRDO, New Delhi, Regional Research Institute, Dept of AYUSH, Bengaluru

ii) International collaborations : Total amount of grant received from above mentioned activities in last 5 years is around **Rs. 1.5 crores.**

Sl. No.	Name of the Institution	Collaborating Institute
1	J.N. Medical College, Belagavi	NIH USA, National Institute of Child Health and Human Development, National Institutes of Health, USA, The National Institute of Neurological Disorders and Stroke (NINDS), Fogarty International Center, RHR Division of World Health Organization, Geneva, Switzerland International Atomic Energy Agency, Vienna Bill and Melinda Gates Foundation, USA
2	KLE VK Institute of Dental Sciences, Belagavi	National Institute of Dental Craniofacial Research, National Institute of Health, Bethesda, Mary Land, USA, Muzumdar Shaw Cancer Center; Johns Hopkins University and Boston University, USA
3	KLE Institute of Nursing Sciences, Belagavi	University of East Anglia, UK, Karolinska Institute, Sweden & ANSWERS Mytri, Hyderabad, Andhra Pradesh
4	KLE College of Pharmacy, Belagavi	Rhodes University, South Africa
5	KLE College of Pharmacy, Bengaluru	Rega Institute for Medical Research Belgium, National Cancer Institute (NIH), Bethesda, USA, Division of AIDS, NIAID, NIH, USA, University of Mississippi, USA, Dept. of Pharmaceutics, Dept. of Biomedical Sci. and Tech. Univ. of Cagliari, Monserato, Italy, Dept. of Complimentary and Alternative Medicine, Clinical R & D, Kanazawa University, Japan.

3.2.7 What are the financial provisions made in the institution budget for supporting students' research projects?

Initiation :

Every year the University has been making financial provisions for upgrading the research facilities and to carry out research related activities including training.

Sustenance :

- Every year the University makes a budgetary provision of Rs. 2 crores for supporting student research and development apart from external funding.
- The Institute has extended financial support to students who have taken up funded projects, where the funds were not sufficient to complete their projects.
- Infrastructural facilities at all KLE Institutions, usage of consumables at department level is permitted.
- Around Rs.1crore every year is spent on fellowships, post doctoral, superspeciality and postgraduate incentives.
- Every month research scholars are paid stipend and contingency amount as per following table:

Sl. No.	College	Amount per month per Research Scholar (Rs.)	Contingency amount per year (Rs.)	Eligibility Criteria
1	J N Medical College, Belagavi	30,000/-	30,000/-	MD/MS with 60% marks passed in first attempt or equivalent
2	KLE VK Institute of Dental Sciences, Belagavi	15,000/-	25,000/-	MDS with 60% marks passed in first attempt
3	KLE College of Pharmacy	10,000/-	25,000/-	M. Pharm in first class in first attempt.
4	KLE College of Pharmacy	8,000/-	20,000/-	G-PAT or GATE preferred.

5	KLE Ayurveda / Physiotherapy /Nursing	8,000/-	20,000/-	PG with first class in first attempt .
6	Inter- disciplinary Area	6,000/-	20,000/-	M. Sc. In first class in first attempt

Enhancement :

- Upto Rs. 7,000/- is given for each post graduate student for supporting research projects undertaken in the college.
- University gives 50% concession in tuition fees for Ph.D programs to the in-service teachers who have registered for Ph.D.
- Around 25 scholarships are given every year for Ph.D programme.
- Financial incentives are given to students for receiving 'Best paper/poster award' at National/International scientific meets.

3.3 Research Facilities**3.3.1 What efforts have been made by the institution to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?****Initiation :**

- The University has been making strategic plans and has been developing infrastructure requirements in its full capacity to promote research.
- The infrastructure development has been supporting a coherent and strategy-led approach in the field of research and has been facilitating multilateral initiatives leading to a better use of equipments and improvisation in research.

Sustenance :

- Bye-Laws prepared under rule No, 4 (viii) of MoA 2006 provides for constitution and composition of Research Committee.
- The Research Committee is mainly responsible for scrutiny of the research proposal, recognition of teachers as Research supervisors, approval of synopsis of Ph.D, registrations, allocation of funds for internally funded research projects, monitoring the progress of the research and clinical trials, etc.

During last three years; the University has developed following research facilities.

*** Site Management Office (SMO)**

This facility is provided for clinical research and clinical trials. The University has provided 220 Sq. mts. space with conference room, office for the co-ordinator, monitor's room, secured IND area, data management area with other basic facilities like ISD and broad band internet. It also provides facilities for pharmaceutical, biological and medical device product development from Phase II through phase III for MNCs. All activities meet the required standard laid down by the ICH-GCP and FDA which help to protect the patient's rights and also assure their safety and data quality.

*** Basic Science Research Center**

- Dr. Prabhakar Kore Basic Science Research Center of 10,000 Sq.ft. area has been established with vision to become a force to be reckoned with, in the field of research and create motivated individuals to engage in basic research by providing critical research skills through scientifically designed programmes.
- The focus areas are Instrumental Analysis, Medical Microbiology, Molecular and Cellular Biology, Academic Research Orientation Programmes, International Collaborations and Scientific Workshops for Advanced Scientists. Instruments available are : Ultra high-performance liquid chromatograph (U-HPLC), Quaternary gradient automated HPLC, USP dissolution Tester for Oral Solid dosage forms, Peltier based thermal cycling PCR system, automated chromatographic fraction collector, Associated high-end analytical instruments.
- Medicinal plants garden (23.5 acres) facility is available for Ayurveda and pharmacy research. Around 6800 medicinal plants belonging to more than 455 species are grown.
- GMP certified Ayurveda teaching pharmacy manufacturing 280 which includes 269 classical medicinal preparations, 9 proprietary and 2 food products.
- In addition to this, there are highly sophisticated equipments available in the departments of constituent units of University which are open for use by all the faculty and students.

*** Animal House**

Sl. No.	Name of the College	Registration No.
1	J.N. Medical College, Belagavi (305 Sq. mts)	Reg. No. 627/02/a/CPCSEA dated 19 /06/ 2002
2	KLE College of Pharmacy, Belagavi (88 Sq.mts.)	Reg.No.1027/a/07/CPCSEA dated 16/06/2012
3	KLE Sri BMK Ayurveda Mahavidyalaya, Belagavi (271.84 Sq. mts)	Reg. No. 1017/c/06/CPCSEA dated 19 /12/ 2006
4	KLE College of Pharmacy, Hubballi (105.32 Sq. mts)	Reg. No. 126/1999/CPCSEA dated 29/06/1999
5	KLE College of Pharmacy, Bengaluru (74.43 Sq. mts)	Reg. No. 626/02/a/CPCSEA dated 19/06/2002

- Experimental animals like mice, guineapigs, rabbits, albino rats, and sheep are available. The animal houses are duly registered with CPCSEA.
- Centre for Women's and Children's Health Research is established where research projects are planned, conducted and monitored.
- A Clinical Skill Laboratory is an asset to the University and its constituent units as it provides advanced skilled learning facilities to the faculty and students.
- Regular workshops, seminars and conferences are conducted to help students and faculty to update and inculcate knowledge of research skills.

Enhancement :

- Advanced research facilities are made available.
- Off-campus research center of BSRC at Bengaluru.
- Ayurgenomics Lab at College of Ayurveda
- AYUSH certified ASU Drug testing laboratory
- University has identified three Centers of excellence:
 1. Women and Child Health
 2. Medical Education
 3. Phytopharmaceuticals
- Increased budgetary provision is made for BSRC and research activities.

3.3.2 Does the institution have an Advanced Central Research facility? If yes, have the facilities been made available to research scholars? What is the funding allocated to the facility?

Yes

- Establishment of Central Research Facility (CRF) approved by AYUSH for ASU drug testing at KLE Sri BMK Ayurveda Mahavidyalaya, Belagavi.
- Establishment of Basic Science Research Centre within the campus with 10,000 sq.ft area. The research center is hosting 4 laboratories that engage in basic research with state of art facility with initial investment of Rs. 10 crores for microbiological, analytical, bio-chemical, basic science and tissue culture research.
- The Basic Health Science Research Center has its own calendar of events for the year ahead.
- Establishment of one more Basic Health Science Research Center, Bengaluru off-campus with all above mentioned facilities to help research with an initial investment of Rs. 90 lakhs.

Enhancement :

- Two research centers (within campus and off-campus) with advanced research facilities and scientists.
- University has sanctioned 7 Ph.D admissions under KLE Dr. Prabhakar Kore BSRC.
- University has made 10% budgetary allocation for research and an amount of Rs. 10 crores has been utilized in last four years for establishment of Advanced Central Research facility.

3.3.3 Does the institution have a Drug Information Centre to cater to the needs of researchers? If yes, provide details of the facility.

Yes

The Drug Information Centre has been helping healthcare providers to be in pace with escalating needs of profession. The aim is to promote rational use of medicines and build a trust among the patients.

- The teaching hospital of the University has Drug Information Center to cater to the needs of researchers and patients.

- It has all necessary infrastructure facilities to provide drug information to the health care professionals and patients.
- It has Micro Medex Database software, Mumbai in collaboration with KSPC, Bengaluru.
- Provision of CIMS, MIMS, e-journals is made.
- The Institute of Ayurveda also has Central Research Facility (CRF) approved by AYUSH for ASU drug testing.
- Crude Drug Museums in Pharmacy colleges have good teaching value.
- Drug Information Centre is present at KLES Dr. Prabhakar Kore Hospital and MRC. Clinical Pharmacy provides 24x7 services. Pharmacovigilance Centre is present where adverse drug reactions are reported.
- Peripheral Pharmacovigilance Center for ASU drugs established at College of Ayurveda.

3.3.4 Does the institution provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)?

Yes

- The KLE Dr. Prabhakar Kore Basic Science Health Research Center is open for work 24x7 hours with facility of computers and internet for Scientists, research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national / international).
- The BSRC has separate guest house for visiting scientists and research students who visit the Center for research purpose.
- The campus also has residential facilities with internet access for all the members.
- The institution provides residential facilities at University guest houses and hostels (Men and Women) for national and international visiting scientists.
- Living on campus connects to full range of opportunities and to watch over the progress of work. Currently about 70% student population is staying in the campus.
- The research center has kitchenette, seating and scholar's area.
- The wire-less internet facility encourages use of laptops anywhere in the laboratory.

3.3.5 Does the institution have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

Yes

Initiation:

The higher qualification of faculties and quality work carried out has earned many recognitions at national and international levels. The mandate of work is accomplished by the recognized centers.

Sustenance:

- In 1984, Human Reproduction and Research Collaboration Center (HRRC) under ICMR was established and it is continued to conduct research projects related to human reproduction and it is the only HRRC in the private Sector.
- The year 1999 represents a significant landmark in the history of J. N. Medical College, one of the constituent units of the University, Belagavi. Spurred by the encouragement of **Dr. Prabhakar Kore**, MP, the visionary **Chairman of KLE Society**, an academic collaboration was established with the University of Illinois at Chicago, USA. The major emphasis of the collaboration was to strengthen medical education, as well as, develop research capacity and clinical care services in maternal and child health.
- The National Institute of Child Health and Human Development of the National Institutes of Health, USA for the first time ever formed a Global Network for Women's and Children's Health Research in the year 2000. The Global Network was established largely due to a benevolent endowment from the Bill and Melinda Gates Foundation for improving the standards of women's and children's health care in developing countries. In response to this initiative, JNMC, in collaboration with UIC, submitted a research proposal for funding. **JNMC has the unique distinction of being selected as one of the original ten sites in the network from India, Pakistan, Tibet, Zambia, Democratic Republic of Congo, Argentina, Uruguay, Brazil, and Guatemala for the initial five years of funding.** While traditionally NIH funding has been restricted to Governmental agencies, **JNMC is the only private institution to receive the research grant.**
- J.N. Medical College, constituent unit of KLE University, is recognized by **Ministry of Health and Family Welfare** under Scheme **Human Resource Development for Health Science Research** (Department of Health Research, Government of India) in the subject areas of **Geriatrics and Good Laboratory Practices (GLP).**

- Under the aegis of the Global Network project, a Women's and Children's Health Research Unit was established. This has enabled the creation of an international multi-disciplinary research team of clinicians, basic scientists, public health experts, and information technology specialists supporting the development of research protocols, the results of which have global impact on the health of women and children. Based on its commendable performance during the first cycle, the 'Research Unit' is **one of the six among the ten sites to be refunded for second and third cycle of five years until 2017.**
- The past seven years have been marked by the establishment of a newly constructed 'Research Unit' at JNMC, the setting up of five regional data centers throughout the district, training of dedicated research faculty and the strengthening of Institutional Review Board mechanisms; all essential components of research capacity building and infrastructure development. The research unit has developed a Study Management System, comprising of electronic data entry and management, for monitoring the process evaluation.
- The research unit has forged a strong Public Private Partnership with the Belagavi District Health Administration for implementing community based interventions impacting maternal and child health. At present, the research unit serves a population of over 6,70,000 residing in 231 villages spread over eight talukas of Belagavi district. This population is served by 32 Primary Health Centers and the health workers have been trained for ethical conduct of research and data collection. This has enabled the promotion of public health research skills among district health functionaries and has permitted close partnership between the research team and the rural health care system. This community-based research network offers an ideal platform for testing evidence based intervention for impacting the health outcomes of this under-served population.
- JNMC has adopted **3 Primary Health Centers and 3 Urban Health Centers.**
- All the constituent units are recognised at national and international level for student and faculty exchange programs for research purposes and availability of excellent infrastructure.
- The Institute of Nursing has MOU with East Anglia University, Norwich, UK under the **UKIERI** research fund scheme for the capacity building of the research and faculty training in the field of mid-wifery.
- The College of Ayurveda has following centers of national recognition:

- **Peripheral Pharmacovigilance Centre** of Dept. of AYUSH, Govt of India.
- Researchers from other laboratories/institutes utilize the drug testing laboratory for ASU drugs (Ayurveda Siddha & Unani) which is approved by Dept. of AYUSH.
- Researchers from other laboratories/institutes utilize the animal house registered with CPCSEA for the research purpose.
- The College of Pharmacy, Belagavi is recognised as a **Nodal Center for Faculty Training Quality Improvement Program** by AICTE.

Enhancement :

- The recognized departments have got national and international impact.
- The national and international recognitions have also helped other interested organisations and individuals to easily find information on current issues in international academic and professional mobility, and on procedures for the recognition of foreign qualifications.
- All research infrastructural facilities are made available to researchers from other organizations/ institutions/ industries/ Universities.
- University Research Foundation has expanded its activities from one district to four districts and has collaboration with many of the international research organizations.
- College of Pharmacy is identified by Department of Science and Technology (DST) as host institute for African researchers under the C.V.Raman Scheme for Post-Doctoral research.

3.3.6 Clinical trials and research

- * **Are all the clinical trials registered with CTRI (Clinical Trials Research of India)?**
- * **List a few major clinical trials conducted with their outcomes.**

Yes

All the clinical trials are registered with CTRI (Clinical Trials Research of India)

Initiation :

The clinical trials carried out by the constituent units of the University have contributed greatly to improve quality of life.

Sustenance :

In last four years total **81 clinical trials** have been undertaken by all the constituent colleges.

Following are few clinical trails for which the primary objective was met with:

Sl. No	Title	Status	Funding Agency
1	Protocol Number: AMR-01-01-0019: "A Multicenter, prospective, randomized, double blind, placebo-controlled, parallel-group study to evaluate the effect of AMR101 on cardiovascular health and mortality in hypertriglyceridemic patients with cardiovascular diseases or at high risk for cardiovascular diseases: REDUCE-IT (Reduction of Cardiovascular Events with EPA – Intervention Trial)"	Approved by EC on 12 th March 2012. DCGI approval dated 04/May/2012 Status-active Screening – 20 Screen Failure-18 Randomized - 01	Pharmanet CRO
2	Protocol Title: "A proof of concept, parallel design, single treatment, double arm trial of 50 mg quick dissolve tablets containing freeze dried <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> lysate (GenCix™) from FraXon technologies Inc., USA, conducted on treatment naïve chronic hepatitis C positive patients in one arm and treatment naïve chronic hepatitis C positive patients on dialysis in the other arm"	Approved by EC on 20 th January, 2013. DCGI approval dated on 20/01/2012 Status-Active, Screening – 08 Randomized - 01 Death-01	Norwich

Sl. No	Title	Status	Funding Agency
3	Protocol Number: GPL-CT/20111011/III “A Phase III, randomized, open label, non-inferiority, active-controlled comparative, parallel group, multicentric study of fixed dose combination of formoterol 12 µg plus fluticasone 250 µg as dpi (test drug) with the commercially available fixed dose combination of salmeterol 50µg and fluticasone 250 µg (Seretide™ Accuhaler™ 50/250 µg) as DPI in a 12-week treatment period of adolescent and adult subjects with moderate-severe stable persistent asthma”	Approved by EC on 20/12/2011 Status-Inactive DCGI approval Pending	Glenmark
4	Protocol Title - C003 - “A double blind, randomized, placebo controlled, parallel group, three arm, multicenter and multinational pivotal study to assess the efficacy and safety of two dosage regimens of crofelemer tablets in the treatment of moderate to severe acute watery diarrhea in adult patients”.	Approved by EC on 03/08/2011 Status-Active Screened -03 Randomized -00	Glenmark
5	Protocol Title -“A phase II/III randomized, single blinded, active controlled study to evaluate the immunogenicity and safety of inactivated Japanese encephalitis vaccine in healthy volunteers”.	Approved by EC on 05/05/2012 Status-Inactive	Bharat Biotech
6	Trial No: BECT/JEV-P-II-III/018, Protocol No: BECT018/JEV-P-II-III/CTP-02 “A multicentric, open label randomized controlled phase II/III study to evaluate the	Approved by EC on 16/02/2011 Status-Inactive Submitted to EC on 05/02/11	

Sl. No	Title	Status	Funding Agency
	safety and immunogenicity of be's inactivated JE vaccine in healthy ≥ 1 to <3 year old Indian children"		Biological E. Limited
7	Protocol Number: PBL/CR/0032008/CT "A randomized, multicenter, open label, comparative study to evaluate the immunogenicity and reactogenicity of a new fully liquid pentavalent DTwP-Hib-IPV vaccine (<i>EasyfourPol</i> TM , Panacea Biotech Ltd) with tetravalent DTwP/Hib vaccine (<i>TetrAct-Hib</i> TM), co-administered with <i>Imovax Polio</i> [®] (Salk Based Inactivated Polio Vaccine) of Sanofi Pasteur India Pvt. Ltd. In Healthy Infants.	Approved by EC on 02/May/2012 Status –Active Randomized-80 Submitted to EC on 11/01/11	Panacea
8	Protocol No:RLS/TP/2010/03:"Prospective, multicentric, open label, clinical study to evaluate efficacy and safety of R-TPR-004 in patients undergoing treatment for Acute Ischemic Stroke"	Approved by EC 13 th July 2012 Status – Inactive	Reliance
9	Protocol number: DU176b-C-U305: A phase3, randomized, double-blind, double-dummy, parallel-group, multi-center, multi-national study for the evaluation of efficacy and safety of (LMW) Heparin/Edoxaban versus (LMW) Heparin/Warfarin in subjects with symptomatic deep-vein thrombosis and/or pulmonary embolism	Approved by EC on 19/01/2011 Status: Active Screened-28 Randomized-17 Approved from 08/04/2010 to till date	Quintile
10	Protocol number BC22140 ALEGLITAZAR (RO0728804): Phase 3	Approved by EC on 26/02/2012 Status: Active	

Sl. No	Title	Status	Funding Agency
	multicenter, randomized, double-blind, parallel group, placebo controlled study cardiovascular outcomes study to evaluate the potential of aleglitazar to reduce cardiovascular risk in patients with a recent acute coronary syndrome (ACS) event and type 2 diabetes mellitus (T2D)	Screened – 12 Randomized – 09 Active-07 Drop out-02 Approved from 27/02/2010 to till date	George Institute
11	Protocol title: A phase II, randomized, open label, single subcutaneous dose study of polysialylated Erythropoietin to assess safety, pharmacodynamic & pharmacokinetics in chronic kidney disease patients not on dialysis.	Approved from 20/01/2010 to till date	Clinigene, International Ltd
12	Protocol number: DU176b-C-U301: A Phase 3, randomised, double-blind, double dummy, parallel group, multi-center, multi-national study for evaluation of efficacy and safety of DU-176b versus Warfarin In Subjects with Atrial Fibrillation- Effective aNticoagUlation with Factor xA Next Generation in Atrial Fibrillation (ENGAGE– AF TIMI – 48)	Approved by EC on 20/01/2010 Status: Active Screened-15 Randomized -10 Death-03 Discontinuation-02	Quintile
13	Protocol title: “A phase III, open-label, randomized, multicenter study to evaluate the immunogenicity and safety of GlaxoSmithKline Biologicals’ combined DTPa-HBV-IPV/Hib vaccine (Infanrix hexa™) administered to Indian infants according to 6-10-14 weeks and a 2-4-6 months schedule”.	Approved by EC on 04/May/2012 Status: Active Screened -20 Randomized -20	GlaxoSmithKline

Sl. No	Title	Status	Funding Agency
14	Protocol number TRI08888 GARFIELD:“Prospective, multicentre, international registry of male and female patients newly diagnosed with atrial fibrillation”.	Approved by EC on 26/06/2012, Status: Active	Thrombosis Research Institute
15	Protocol study number: SH501:“Safety, Immune Lot-to-Lot consistency and non-inferiority of Shan 5 (DTwP-HepB-Hib) vaccine in comparison to Pentavac SD when administered as a single booster dose at 15-18 months and three dose at 6-8,10-12 and 14-16 weeks of age in healthy Indian children and infants”	Approved by EC on 08/06/2012 DCGI approval dated 22.10.2012 Status-active Screened -126 Randomized-126 Withdrawn-07	SHAN Pharmaceuticals

SMO of the University monitors clinical trials

Enhancement :

- Clinical trials have enormous potential for benefiting patients, improving therapeutic regimens and ensuring advancement in health science that are evidence based.
- Recognition of our Vice Chancellor as “Chairman of the Recruitment Board of RAC for Defence Research & Development Organisation (DRDO) Laboratories, Ministry of Defence, Government of India” and member of “Selection Committee for appointment of Drugs Controller General of India and Directors of National Institute of Pharmaceutical Education and Research (NIPER)” is an exemplary achievement and has motivated studies like clinical trials.

3.4 Research Publications and Awards

3.4.1 Does the institution publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.

Yes

Initiation :

With the idea of publishing existing researches and thoughtful contributions that offer insights and perspectives extending knowledge, the University started with publication of Journal of JNMC Scientific Society, KLE University Health Science Journal and KLEs Lifeline.

Sustenance :

1. Publication by Scientific Society of J.N. Medical College	
Name :	Journal of JNMC Scientific Society
Type :	Peer Reviewed, Pubmed catalogued
Periodicity :	Online Journal with 3 Issues and print on demand
ISSN No :	0974-5009
Any other specifications:	The Journal is indexed with Caspur, CNKI (China National Knowledge Infrastructure), EBSCO Publishing's Electronic Databases, Expanded Academic ASAP, Genamics Journal Seek, Google Scholar, Index Copernicus, Indian Science Abstracts, OpenJGate, PrimoCentral, ProQuest, SCOLAR, SIIC databases, Summon by Serial Solutions, Ulrich's International Periodical Directory.
Composition of Editorial Board :	Editor in Chief Associate Editor Editorial Secretary Editorial Assistants Editorial Advisory Board Overseas Editorial Board Members Editorial Board Members

Editorial Policies :	<ul style="list-style-type: none"> • It is a free access (Open Access) Journal. • The manuscript should not have been published anywhere, simultaneously submitted, or already accepted for publication elsewhere. • One corresponding author for communication regarding manuscript. • Editors review all submitted manuscripts. • Manuscripts with insufficient originality, serious scientific or technical flaws, or lack of a significant message, those of unlikely interest to the Journal are rejected before proceeding for formal peer-review. • Manuscripts are sent to two or more expert reviewers. • The Journal follows a double-blind review process, wherein the reviewers and authors are unaware of each other's identity. • Every manuscript is also assigned to a member of the editorial team, who, based on the comments from the reviewers, takes a final decision on the manuscript. • The comments and suggestions (acceptance/ rejection/ amendments in manuscript) received from reviewers are conveyed to the corresponding author. • Manuscripts accepted for publication are copy edited for grammar, punctuation, print style, and format.
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2. University Journal	
Name :	Indian Journal of Health Science
Type :	Peer Reviewed, Indexed
Periodicity :	Bi-annually
ISSN No :	0974-5912
Publisher :	Medknow

Any other specifications	<p>The Journal is indexed with Abstracts in Genamics Journal Seek, Global Health, Google Scholar, OpenJGate, Swet, TdNet.</p> <p>The Journal is published and distributed by Medknow Publications and Media Pvt.Ltd., Mumbai, India.</p>
Composition of Editorial Board :	<p>Patrons Executive Editor Chief Editor Associate Editor Assistant Editor Editorial Board Members Overseas Editorial Members Advirosy Board Members</p>
Editorial Policies :	<ul style="list-style-type: none"> • The manuscript should not have been published anywhere, simultaneously submitted, or already accepted for publication elsewhere. • One corresponding author for communication regarding manuscript. • All submitted manuscripts will be reviewed . The Journal follows a double-blind review process, wherein the reviewers and authors are unaware of each other's identity. • Manuscripts with insufficient originality, serious scientific or technical flaws, or lack of a significant message, those of unlikely interest to the Journal are rejected before proceeding for formal peer-review. • Final decision on the manuscript is based on the comments from the reviewers. • The comments and suggestions (acceptance/ rejection/ amendments in manuscript) received from reviewers are conveyed to the corresponding author. • Manuscripts accepted for publication are copy edited for grammar, punctuation, print style, and format.

3.Publication by Hospital :	
Name :	KLEs Lifeline
Type :	Peer reviewed, indexed
Periodicity :	Bi-annually
ISSN No :	0974-5475
Any other specifications:	Being published continuously for last 11 years

Composition of Editorial Board :	Editor Advisor Assistant Editor Editorial Board Editorial Secretary
Editorial Policies :	<ul style="list-style-type: none"> • Original research, review articles and unique case reports. The articles are double blinded peer reviewed. • Undertaking against plagiarism. • Ethical clearance and informed consent are obtained. • Copy right is obtained. • Declaration of conflict of interest.

Enhancement :

To achieve faster and greater dissemination of knowledge and information, the journal publishes articles online as '**Ahead of Print**' immediately on acceptance.

3.4.2 Give details of publications by the faculty and students:

* **Number of papers published in peer reviewed journals (national / international) :**

Total=2750

National : 1586

International : 1164

There are research publications with Impact Factor of 54.42, 39.315, and 35.020

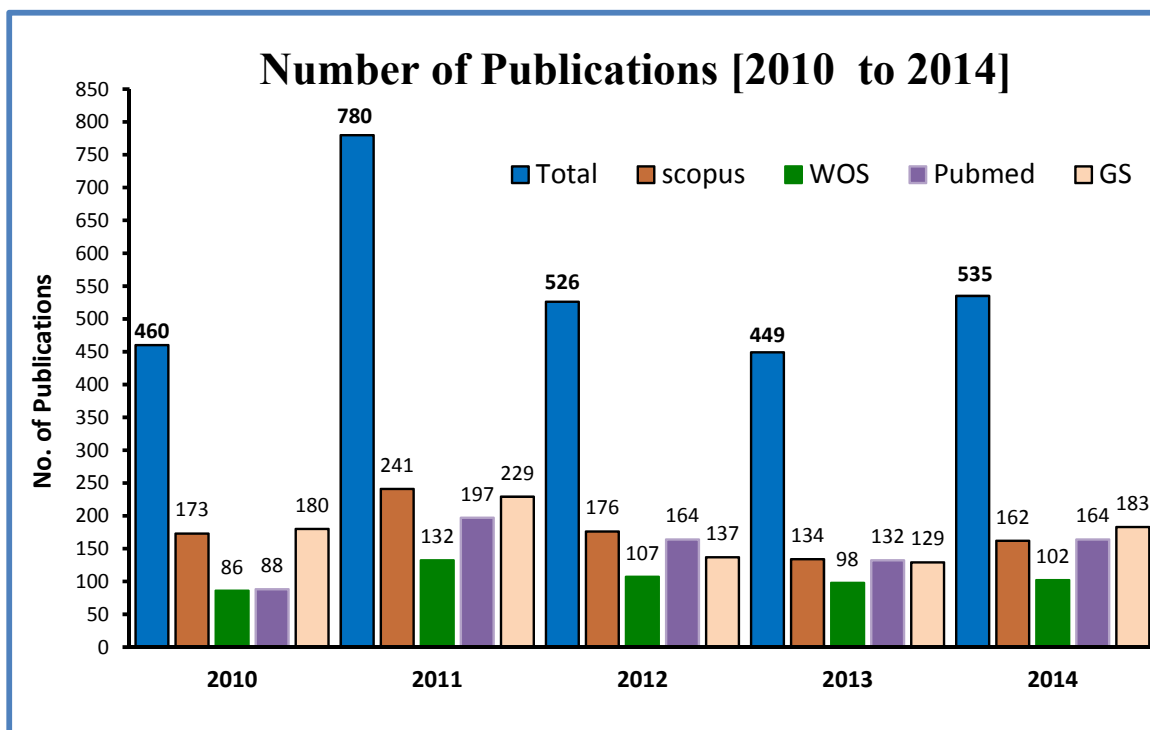
Year	2010	2011	2012	2013	2014	2010-2014
Number of Publications	460	780	526	449	535	2750
Number of Journals	230	321	278	284	245	1358

- * **Monographs -- 15**
- * **Chapters in Books - 42**
- * **Books Edited – 15**
- * **Books with ISBN with details of publishers – 18**

One book authored by Vice-Chancellor is in the 50th edition and so far 3 lakh copies have been sold.

- * **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, EBSCO host, Google scholar, etc.) –**

Number listed in Scopus, Web of Science, Pubmed and Google Scholar is depicted in the graph as shown below :

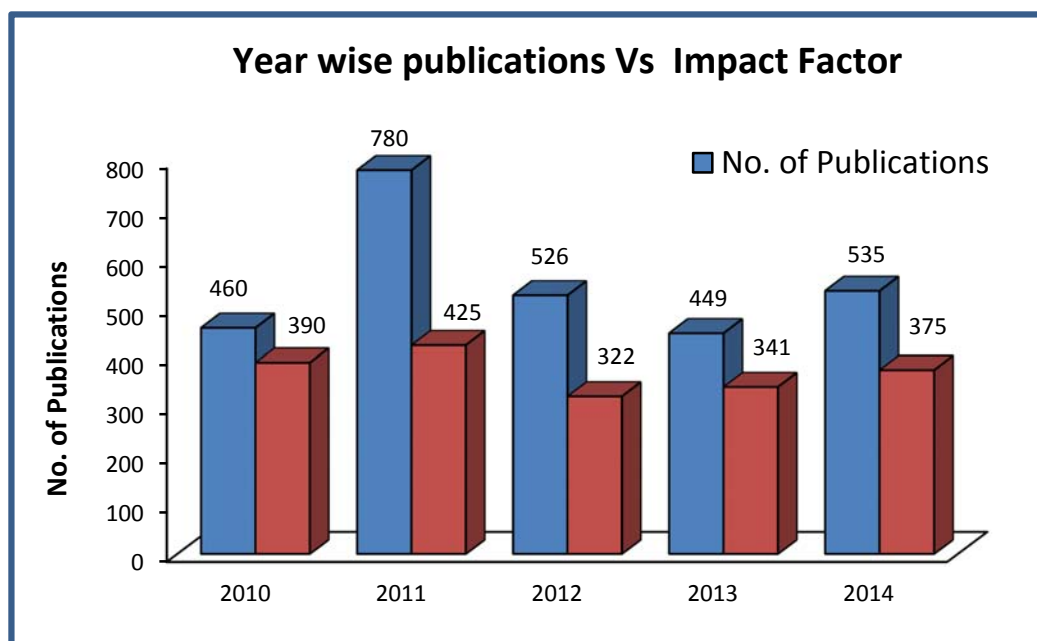


* **Citation Index–range/average – Average 3.01**

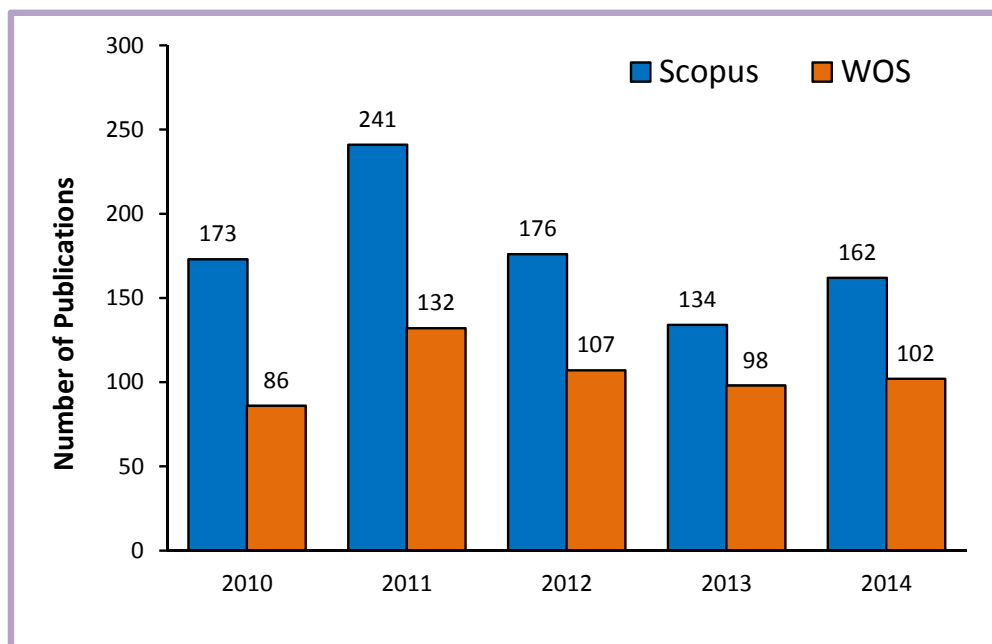
Among the total publications (No. 2750) in the last five years (2010-14) the articles have been cited in various databases like Scopus, Web of Science, Pubmed, Google Scholar, etc. The highest citation was in google scholar based on which the average Citation Index is **3.01** ($8280/2750 = 3.01$)

Overall Citations and h-index		
Data bases	No. of Publications	No. of Citations
Scopus	1855	4810
WOS (SCI)	978	2993
Google Scholar	2290	8280
Pubmed	2342	1376

* **Impact Factor – range/ average - 54.42 - 0.150 ; Average 0.67**



- * **Source Normalized Impact per Paper (SNIP)** - The SNIP for indexed publications as per Scopus ranged from **0.758 to 13.35**
- * **SCImago Journal Rank (SJR)** - The SJR for indexed publications ranged from **0.1 to 28.272** as per Scopus.
- * **h-index** – H-index as per Google Scholar - 189



3.4.3 Does the institution publish any reports/compilations/clinical round-ups as a part of clinical research to enrich knowledge, skills and attitudes ?

Yes

Initiation :

The Institution has been publishing reports / compilations / clinical round-ups in renowned national / international journals. The faculty have also been publishing their work in national magazines, news bulletins and newspapers apart from in-house journals to enrich knowledge, skills and attitudes.

Sustenance :

The constituent units have established scientific journals through which they Publish reports/compilations/clinical round-ups as a part of clinical research to enrich knowledge, skills and attitudes.

Following are some of the publications by the constituent units:

1. Indian Journal of Health Science
2. J. N. Medical College Scientific Society Journal
3. KLE Hospital “Life Line”
4. KLE Academy News Bulletin (KLEAN) – published quarterly and is a compilation of important events (workshops, conferences, and seminars), new clinical departments / wards of all constituent units.
5. Perceptions : Bi-annual News Bulletin published from VKIDS.
6. Proceedings of Clinico-Pathological Conferences (CPC).
7. Proceedings of National Events of all institutions.
8. Edu Care from UDEHP –annually
9. KLEU’s Public Health Magazine
10. FOCUS from KLE hospital
11. MADHU-MEHA VAIDYA magazine from KLE Hospital

Enhancement :

- The publications help in sharing scientific information at global level.
- This has enhanced the quality and skill of scientific writing.
- Various departments of the constituent colleges compile the clinical data base which is used as reference for research, resource for teaching-learning and for evidence-based practice.

3.4.4 Give details of

- * **faculty serving on the editorial boards of national and international journals**
- * **faculty serving as members of steering committees of national and international conferences recognized by reputed organizations / societies**

The faculty members of all the constituent colleges are active academicians/clinicians and researchers. They have been members of national and international organizations/ associations/societies. They are active organizers and participants in conferences/ workshops/seminars and have been on editorial boards, reviewers of various national and international journals.

*** Faculty serving on the editorial boards of national and international journals**

Around 12% of the staff from various departments of constituent units of the University are on editorial boards of journals of national and international repute.

Sl. No.	Designation in the Editorial board	Name of Journal	State / National / International
1.	Associate Editor	Global Journal of Surgery	International
2.	Editorial Board Member	Clinical Research in BIOMIRROR	International
3.	Editor	Indian Journal of Ancient Medicine and Yoga	International
4.	Editor	International Journal of Ayurveda and Pharma Research	International
5.	Editorial Board Member	Research in Phytochemistry and Pharmacology.	International
6.	Editorial Board Member	Journal of Pharmacia	International
7.	Member	SAARC Journal of Anaesthesia	International
8.	Editorial Board Member	International Journal of Gynecology and Obstetrics	International
9.	Editor	Bio Med Central BMC Pregnancy & Childbirth Journal	International
10.	Member of Editorial Board	World Journal of Stomatology	International
11.	Editor and Members of Editorial Board	Journal of Oral and Maxillofacial Surgery	International
12.	Member	International Journal of Medicine & Public Health	International
13.	Member	International Journal of Orthopaedics	International
14.	Editorial Board	International Journal of Advanced Nursing Practice (IJANP)	International

Sl. No.	Designation in the Editorial board	Name of Journal	State / National / International
15.	National Editorial Advisory Board	International Journal of Nursing Education	International
16.	Editorial board	International Journal of Research in Phytochemistry and Pharmacology	International
17.	Editor	Indian Journal of Anaesthesia	Naitonal
18.	Editorial Board Member	Journal of Orthopaedic Education	National
19.	Editor, co-editors, asst. editor	KLEU Health Science Journal	National
20.	Editor	Rasayani e Journal	National
21.	Guest Editor	Evidence based Complementary medicine	
22.	Editor	Indian Journal of Preventive Medicine	National
23.	Member	Indian Journal of Anatomy	National
24.	Member	Indian Academic of Ecocardiography	National
25.	Member	Indian Journal of Child Health	National
26.	Editor	Journal of Dental Problems and Solutions	National
27.	Member of Editorial Board	Journal of Oral and Maxillofacial Research	National
28.	Editorial Board	Indian Journal of Pharmacaceutical Research	National
29.	Member Editorial Board	Indian Journnal of Physiotherapy & Occupational Therapy	National
30.	Editorial Board Member	Archives of Health Sciences	National
31.	Member Advisory Board	Indian Journal of Pharmaceutical Sciences	National
32.	Member Advisory Board	Indian Journal of Natural Product	National

Sl. No.	Designation in the Editorial board	Name of Journal	State / National / International
33.	Member Advisory Board	Indian Journal of Hospital Pharmacy	National
34.	Member Advisory Board	Indian Journal of Pharmaceutical Education	National
35.	Member Advisory Board	Indian Drugs	National

*** Faculty serving as members of steering committees of national and international conferences recognized by reputed organizations / societies**

Around 32% of staff have served as Chairman, Organizing Secretary, Chairman Scientific Committee, Member Advisory Board, Resource Person, Conference Secretary of National and International conferences of national associations of their respective subjects.

Enhancement :

- This has helped in giving recognition to the faculty in their speciality and the institution in updating the scientific culture and temperament.
- This has also helped in developing global networking for academic purpose and establishing MoUs / Research collaborations with institutions of repute.
- Increase in the number of faculty members being invited to serve in various capacities like Editorial Board Member, Associate Editor, Assistant Editor, Chief Editor, Co-editor, Guest Editor, etc. for reputed national and international journals based on their high quality research publications, book authorships, qualification and experience.

3.4.5 Provide details for the last four years

*** research awards received by the faculty and students – 324**

*** national and international recognition received by the faculty from reputed professional bodies and agencies – 382**

Initiation :

- Many faculty members have received awards in their respective fields for continuous service, support research directions and for conducting research in core areas relevant to well-being of humankind.

- Many faculties have chaired scientific sessions, delivered keynote addresses / orations in both National and International Conferences and updates in their field of speciality.

Sustenance :

- A total of **324 research awards** have been received by faculty and students for their contribution in research.
- Around **382 faculties** have been recognized by National and International bodies and agencies for their exemplary work.

Following are few such recognitions of our faculty members :

International

- Chairman, for the scientific session addressed by Nobel Laureate Prof. Dr. Harald Zur Hausen at International Conference organized by LINCOLN UNIVERSITY, Malaysia, August 2014.
- Chief Scientific Investigator, International Atomic Energy Agency, Austria.
- Member Protocol Review Committee Global Network Division of NICHD USA for Women's and Children's Health Research.
- Senior Foreign Investigator, JNMC – CCHS (Christina Care Health Sciences Delaware USA) Women's and Children's Research Unit, JNMC, Belagavi.
- Steering Committee member **Global Network Division of NICHD USA** for Women's and Children's Health Research twice a year (January and June) since 2001 to till date on various Global Network Projects.
- **Technical Advisory Group members** of Oxytocin Initiative project convened by PATH February 2-3, 2010, Washington DC, USA.
- One faculty member was invited to address the **American Congress** on Neonatal Resuscitation
- Steering Committee member of AMTSL Trial, WHO, Geneva April 2010.
- Invited speaker **Global Health Council** 2010 Conference, 14th to 18th June 2010, Washington DC, USA.
- Two members participated as Steering Committee members in **PREMPT trial** at **Vancouver Canada**, New Delhi India, Seattle USA, November 2012, 2013 & 2014 respectively.
- Steering Committee member of WHO "Safe Child Birth Checklist" Project.

- Principal Investigator “Better Birth Protocol” in Uttar Pradesh State with Harvard School of Public Health (Funded by Gate’s Foundation).
- Invited participant at pre-Congress Symposium at Women Delivery conference at Kaulalampur, Malaysia, in 2013.
- Three faculty members participated in “Helping Babies Breathe: Global Implementation Task Force Meeting, and Mentor Training”, Washington DC, June 13, 2010.
- One faculty member participated in Technical consultation on carbetocin Room Temperature Stable (RTS) for preventing postpartum hemorrhage, 21-22 March 2013, WHO Geneva.
- One member as invited participant Symposium on Misoprostol for PPH 31st Jan 2012 Washington DC. (USAID) USA.
- Invited faculty on “ Preconception Health: a Global Perspective” at the 3rd National Summit on Preconception Health and Health Care: improving preconception Health in a New Era of Health Care ,Tampa, Florida, USA, 14th June 2011.
- Two faculty members SAFOG conference at Colombo, Srilanka April 2011 & 2014.
- Member INDO- US Joint Working Group on Maternal Health, Indian Council of Medical Research (ICMR), New Delhi.

National

- **Chairman**, Pharmacy Accreditation Committee of **National Board of Accreditation (NBA)**, 2014
- **Life Time Achievement** Award of Indian Society of Pharmacognosy, 2012.
- **Life Time Achievement** Award of Association of Pharmaceutical Teachers of India (APTI), 2009 -2010
- **Life Time Achievement** Award of Indian Association of Pharmaceutical Scientists and Technologists (IAPSAT), 2010.
- **Life Time Achievement** Award at OMICS Group organized International Conference on Pharmacognosy, Photochemistry & Natural Products, Hyderabad, 2013.
- **Chairman**, Expert Panel Committee for FDCs, Ministry of Health and Family Welfare, Government of India, 2013.
- **Chairman** of the Recruitment Board of RAC for DRDO Laboratories, Ministry of Defence, Government of India.

- Member, National Consultative Committee, Indian Pharmacopeia Commission, Ministry of Health & Family Welfare, Government of India, 2011-14.
- Member, National Scientific Advisory Group (SAG) of the Division of Basic Medical Sciences (BMS), ICMR.
- Shri. K. C. Chatterjee Memorial National Award of Indian Pharmacy Graduates Association (IPGA), at Indian Pharmaceutical Congress, 2013.
- Prof. G. P. Srivastava National Memorial Lecturer Award of APTI, Hyderabad, 2010.
- I.E.S National Teachers Excellence Award, Bhopal, 2011.
- Member, Selection Committee for appointment of Drugs Controller General and Directors of NIPER.
- **President of Indian Association** of Oral and Maxillofacial Pathology for the year 2011-2012.
- **Life Time Achievement** for teaching in Oral Pathology.
- Member, Scientific Advisory Committee (SAC), Institute for Research in Reproduction, ICMR, Mumbai.
- **President** – Association of Geriatric Society of India.
- Fellow of Cardiological Society of India.
- International Member of the Society of Thoracic Surgeons.
- Trustee – Asia Heart Foundation involved in building Heart Hospital across the country.
- **Vice-President** Society of Pharmacognosy of India.
- Member Steering Committee on AYUSH for 12th Five Year Planning Commission, Government of India.
- Member, Central Council of Indian Medicine.
- Member's Scientific Advisory Committee of ICMR.
- Technical Advisory Group Member on Misoprostol for the prevention and Treatment of Post Partum Hemorrhage, New Delhi Gynuity Health Projects, 16th November 2012.
- Invited speaker for **Federation of International Gynecologists and Obstetricians (FIGO)** Session AICOG 2011, Hyderabad, India 5th to 9th Jan 2011.

3.4.6 Indicate the average number of post graduate and doctoral scholars guided by each faculty during the last four years.**Initiation :**

The University has facilitated significant interaction between faculty and students to enhance research skills, learning and better health care services.

Sustenance :

- The University follows its policy in recognizing teachers as guides and supervisors.
- 996 post graduates and 159 research scholars have been guided and are being guided in the last four years.
- On an average 1 teacher guides two postgraduates students.
- One supervisor guides 5 research scholars at a time.

Enhancement :

- Improvement in the infrastructure facilities with effective utilization.
- Increase in number of quality research publications and patents.
- Improvement in quality health care services.

3.4.7 What is the official policy of the institution to check malpractices and plagiarism in research ? Mention the number of plagiarism cases reported and action taken.

The University has clear policies against plagiarism, collusion, fabrication or falsification of results that is likely to undermine the integrity.

- An undertaking is taken by the University from post graduates and doctoral scholars prior to submission of their dissertation regarding plagiarism and malpractices. The University also has software to check the plagiarism and all dissertations undergo verification through this.
- There is an establishment of the Scientific Research Review Committee and Publication Monitoring Committee in its constituent units, which has framed the rules and regulations, and reviews plagiarism regarding the research projects.
- Awareness is created among researchers (faculty and students) regarding plagiarism through circulars.
- Four cases of plagiarism have been reported and suitable action was taken with-holding increments and promotion.
- Softwares for detection of malpractice is available in the research cell.

3.4.8 Does the institution promote multi/interdisciplinary research ? If yes, how many such research projects have been undertaken and mention the number of departments involved in such endeavors ?

Yes

- The themes / topics integrated around a unifying idea, by multiple disciplines encouraged university to promote interdisciplinary research. Multi-disciplinary, inter-disciplinary research is carried out at postgraduate and doctoral programmes.
- University has constituted Faculty of Science to promote interdisciplinary research.
- The institution encourages the faculty members to undertake interdisciplinary projects in order to facilitate the research outcomes in high impact peer reviewed journals.
- The promotion of interdisciplinary projects has been helpful to materialize extramural funding from different funding agencies.
- Departments involved in Interdisciplinary research are:
 - (i) Ayurveda and Institute of Genomic and Integrative Biology (IGIB) for Ayurgenomics
 - (ii) Ayurveda and College of Engineering for Ayurtech
 - (iii) KLEU Dr. Prabhakar Kore Basic Science Research Center and Regional Medical Research Centre (RMRC-ICMR).
 - (iv) Ayurveda and National Chemical Laboratory (NCL), Pune for Pulse diagnosis (Nadi Yantra)
 - (v) JNMC Center for Women's and Children's health research
 - (vi) KLE College of Pharmacy, Hubballi with Department of Chemistry, Karnataka University, Dharwad (KUD).
 - (vii) KLE College of Pharmacy, Bengaluru with Indian Institute of Science, Bengaluru.
- Seven inter-disciplinary projects under faculty of Science have been undertaken by research scholars along with several postgraduate research projects.

3.4.9 Has the university instituted any research awards ? If yes, list the awards

Yes

- In order to acknowledge the fundamental discovery, new theory or insights that may have a significant impact in respective disciplines the University has instituted research awards.
- Incentives for publications in national and international peer reviewed journals.

The University has instituted following research awards :

Sl. No.	Particulars of the Award	No. of Awards p.a.	Quantum of Award
1	Best Ph.D Thesis Award	5 nos.	Rs. 20,000/-
2	Best Post-Graduate Dissertation Award	5 nos.	Rs. 10,000/-
3	Cash Award / Incentive for publication of Text Book / Reference Book	3 nos	Rs. 30,000/-
4	Best Scientist Award	2 nos.	Rs. 30,000/-
5	Best Young Scientist Award	2 nos.	Rs. 20,000/-
6	Cash incentive to the faculty members on the financial grant received from funding agencies	--	@ 1% - 2% on the quantum of financial grant received from the funding agencies not exceeding Rs. 50,000/-

3.4.10 What are the incentives given to the faculty and students for receiving state, national and international recognition for research contributions?

Initiation :

The University has always been recognizing the ability of students / faculty who have clearly demonstrated his / her talents in research and have fostered professional growth.

Sustenance :

- Guidelines of the University for cash incentives to the faculty members for publications are as follows:

Scientific Articles published in	Grant given
a) Science Citation Index (SCI)	Rs. 5,000/-
b) Chapter contribution in international level book	Rs. 4,000/-
c) Sole Author of Text Book / Reference Book	Rs. 6,000/-
d) Short communications/ Letter to the editor/ Clinical Commentary/ Other correspondences like Picture of the month	Rs. 1,000/-

- Cash Incentives to the faculty members/ Research scholars/Post graduate Students who get 1st /2nd / 3rd prize in paper presentations at National / International level.

Prize	Quantum of Cash Incentive (Amount in Rupees)	
	National level	International level
1 st Prize	3,000/-	5,000/-
2 nd Prize	2,000/-	3,000/-
3 rd Prize	1,000/-	2,000/-

- Cash Incentives to the faculty members from the financial grant received from external funding agencies (Grant of Cash Incentives to the faculty members @ 1% - 2% (not exceeding Rs.50,000/-) like Vision Group on Science and Technology (VGST), Department of Science and Technology (DST), ICMR, Bhabha Atomic Research Centre (BARC), Department of Bio-Technology (DBT), Indian Council of Agricultural Research (ICAR) etc. where there is no provision of payment of remuneration to the teacher concerned.
- For the National and International funded projects, wherein there is no remuneration for investigators, 1-2% of the total grant amount is given to the principal investigator as cash incentive not exceeding Rs. 50,000/-.
- Students are given cash award on receiving best paper/poster at state/national/international scientific meets.
- Research scholarships and contingency for Ph.D students.
- An amount of **Rs. 64 lakhs** has been given as incentive amount to the faculty and students for receiving state, national and international recognition for research contributions in last four years.

3.4.11 Give details of the postgraduate and research guides of the institution during the last four years.

- The research guides have been mentoring the undergraduates, postgraduates and Ph.D scholars to identify a research topic, design methodology, research protocols, data management, search for related articles, e-journals and books to conduct quality research with tangible outcome.

Details of postgraduate guides in the constituent units during last four years

Sl. No.	Name of the Institution	Postgraduate guides
1	J.N. Medical College, Belagavi	147
2	KLE VKIDS, Belagavi	46
3	KLE BMK AM Belagavi	26
4	KLE Inst. of Nursing Sciences, Belagavi	24
5	KLE Inst. of Physiotherapy, Belagavi	12
6	KLE College of Pharmacy, Belagavi	24
7	KLE College of Pharmacy, Hubballi	14
8	KLE College of Pharmacy, Bengaluru	10
	Total	303

Recognised Ph.D supervisors of the University

Sl.No	Faculty	No of Supervisors
1.	Medical	28
2.	Dental	03
3.	Ayurveda	03
4.	Physiotherapy	02
5.	Pharmacy	25
6.	Inter-Disciplinary	13
	Total	74

- Scientists from RMRC (ICMR) and faculty from International Universities are guides for Ph.D scholars.
- There has been gradual increase in the number of guides with Ph.D qualification and experience. Steady increase in number of Ph.D enrollment.

3.5 Consultancy

3.5.1 What are the official policy/rules of the institution for structured consultancy ? List a few important consultancies undertaken by the institution during the last four years.

Initiation :

Transformation of knowledge system in health science, ventures by faculty members in simplified operating environments, real time information and experience have enabled many faculty members to provide consultancy services at various levels.

Sustenance :

Following are some important consultancy services undertaken by Medical College :

- Smile Train project: Cleft Lip, Cleft Palate operations are outsourced to the Department of Plastic Surgery, Pediatric Surgery, Oral and Maxillofacial Surgery, Orthodontics and Dentofacial Orthopaedics from Non Governmental Agency in USA. So far, the department has operated 2381 children in the last five years free of cost.
- Community Based Research on Women and Children funded from NIH, USA. So far, the Research foundation has 17 completed Projects and 5 ongoing projects for which principal investigator / research officers have received amount for their consultancy services.
- Research foundation has also established collaborative research activities with National AIDS Research Institute (NARI), Pune, on HIV and Cervical cancer. Government Medical College, Nagpur on use of Antenatal Corticosteroid Trial (ACT) in Pre-term births and Helping Babies Breathe (HBB) trial.
- 81 Clinical Trials-Phase III and IV have been carried out through CROs and from Pharmaceutical companies by Medical, Pharmacy and Ayurveda colleges.
- The KLES Dr. PK Hospital and MRC is recognised by Govt. of Maharashtra, Goa and Karnataka for Yashaswini, Balasanjivini, Arogya Bhagya, Vajapayee Arogyashree Scheme, Ex-servicemen Contributory Health Scheme (ECHS), Employee's State Insurance (ESI), DBCS and other insurance schemes for reimbursement.

- Consultancy for Psychiatry Day Care Center funded by Government of Karnataka.
- The College of Medical and Nursing provide consultancy programs like training on Drill and skill on obstetric and pediatric emergencies for skilled birth attendants and staff nurses in association with St. John's institution Bengaluru.
- The Nursing and Medical Colleges render free consultancy programs, provide training on HBB among staff nurses who are working in labour room to teach neonatal resuscitation techniques in resource-limited areas. It is an initiative of the American Academy of Pediatrics (AAP) in collaboration with the World Health Organization (WHO), US Agency for International Development (USAID), Saving Newborn Lives, the National Institute of Child Health and Development, and a number of other global health organizations. Other consultancy services involve NSSK and training program for the school teacher on First Aid.
- WHO Project for Education and Training to upgrade the skills of birth attendants (M.O, Nurses, ANMS) for early identification of adverse events during pregnancy and child birth.
- Faculty of Ayurveda, Departments of Dravyaguna, Rasa Shastra, and Bhaishajya Kalpana are associated with authentication of herbal & mineral raw drugs used in Ayurveda.
- The Institute of Physiotherapy provides consultancy services at the following centers:
 1. DISHA We Care Day Care center for handicapped children, Honaga
 2. SPARSH, School for special children, Belagavi
 3. ANKUR, School for differently abled children, Belagavi
 4. Sports consultancies (Union Gymkhana, Belagavi. DYSS)
 5. SESA Football Academy, Goa
 6. Chandargi Sports School, Chandargi. Dist. Belagavi
 7. Gurukul, old age home. Belagavi.

- The Colleges of Pharmacy provide both free and remunerative consultancy services for various agencies in the following areas:

Area of Consultancy service	Details of consultancy	Beneficiary
Analytical	Particle size analysis	Research institutions
	IR Sample Analysis	Research institutions
Formulation	Formulations of Metformin cream and evaluation for its antidiabetic effect in animal model.	Advance Research Laboratory, LLC, NewJersy, USA
	S.D.M. College of Dental Sciences, Dharwad.	Formulations of Atorvastatin and Simvastatin in-situ gel and its in-vitro evaluation
	Stability studies of herbal formulations	(Advance Research Products, New Jersey)
	Design and preliminary characterization of antacid tablets of different strengths from given antacid actives (Premixes)	Meha Chemicals
	Design and preliminary characterization of antacid suspension of magaldrate and simethicone to improve its physical stability.	Meha Chemicals
	Design and preliminary characterization of antacid tablets of magaldrate premix (maganta) Grade MCPMX 480 MPS 20 SF)	Meha Chemicals
	Utilization of Laboratory facilities for coating of tablets. (04 Formulations).	GCP, Bengaluru
	Formulation and development of in-situ gel for periodontal use. (02 formulations)	SDM Dental College, Dharwad
	Analysis of Ayurvedic sample	P.C. Jabin College, Hubballi
	Analysis of sample for hardness and polydispersity Index (02 Samples).	P.C. Jabin College, Hubballi

Area of Consultancy service	Details of consultancy	Beneficiary
	Stability studies of herbal formulations	Advance Research Products, New Jersey
Analytical	Particle size analysis of the sample	Pharmacy Colleges
Pharmacological Evaluation	Pharmacological evaluation of test compounds for anti-arrhythmic activity	College of Pharmacy, Nagpur
Microbiological Screening	Pharmacological evaluation of novel heterocyclic compounds	Dept. of Chemistry, SDM College of Engg.&Technology, Dharwad
Pharmacological Screening	Pharmacological evaluation of test compounds	Dept of Organic Chemistry, Karnataka University, Dharwad
Pharmacological Screening	Host scientist for CV Raman International Fellowship for African Researchers	Burkina Faso, South Africa

- The off-campus institutes of Pharmacy, Bengaluru, Department of Pharmaceutics have been providing the consultancy pertaining to formulation development and analysis of prototype to SPI Pharma, Bengaluru. The Consultancy projects undertaken by the Department of Pharmaceutics during the last four years include :
 - i. Co-processed excipient systems for enhanced physicochemical and organoleptic properties
 - ii. Dissolution of powdered dosage forms in USP IV flow through dissolution apparatus.
 - iii. Transport studies across buccal mucosa
- The Department of Pharmacology has been actively involved in offering consultancy projects pertaining to preclinical studies to Green Chem. Herbal Extracts and Formulations, Bengaluru.

Following are the other areas of consultancy provided :

- Faculties are members of Senate, Syndicate, Academic Council, Local Inquiry Committee (LIC), Ethical Committee and BOS of other health Universities.

- Faculties are inspectors for regulatory councils and expert members for staff selection of public service commissions.
- Members of the Editorial Board and peer reviewers of Health Science Journals.
- Departments of Forensic Medicine, Dentistry and Nursing perform duties as medicolegal experts.
- The faculties are invited as resource persons by other institutions to participate in workshops and other academic programmes.
- Many senior faculties are paper setters, UG and PG examiners, and Ph.D examiners of the other universities.
- Most of these consultancy services are of academic nature.

Official policy / rules:

- The University encourages consultancy to be offered by the faculty. 80% of the consultancy charges are given back to the investigator while remaining 20% is retained by the University.
- The consultancy is channelized through the specially created cell constituted by the Vice-Chancellor.
- No unofficial consultancy and unethical clinical trials are permitted in the University.

Enhancement :

- There has been great increase in the number and horizons of consultancy services provided by the faculty of the University.
- The University Research Foundation has been instrumental in establishing research units at SN Medical College, Bagalkot and B. M. Patil Medical College, Vijayapura.
- The number of collaborative consultancy services has increased markedly.
- The All India Radio Programmes on Health Related issues are regularly rendered by various departments of the constituent units.

**3.5.2 Does the university have an industry institution partnership cell ?
If yes, what is its scope and range of activities ?****Yes**

The University has been encouraging industry-institute partnership in order to provide technical training to students in industrial entrepreneurship, advances in design, manufacturing and management disciplines.

- The University has industry institution partnership cell (SMO).
- Faculty can identify areas of their interest and if they find the need for industrial collaborations, the same shall be brought to the notice of Head of Institution and further on, to the University.
- Once areas of mutual interest and feasibility are identified, a preliminary visit/ground work is carried out and University signs the MoU with industry /institution.
- The Institute, after identifying the need, through the Head, collaborates with the University Cell to form the partnership.
- The institution engages in conducting clinical trials on newer drugs in association with pharmaceutical industries.
- The services of all constituent units are rendered to the industries in the form of consultancy, screening, ergonomic advice and treatment.
- Over the last five years, **81 clinical trials** have been carried out. In last four years, there has been great increase in the number of industry-institution partnerships in the form of clinical trials that has increased the patients flow and treatment to the community.
- Formulation development and analysis of prototype to SPI Pharma, Bengaluru.
- The consultancy projects undertaken by the Department of Pharmaceutics are :
 - (i) Co-processed excipient systems for enhanced physicochemical and organoleptic properties.
 - (ii) Dissolution of powdered dosage forms in USP IV flow through dissolution apparatus.
 - (iii) Transport studies across buccal mucosa.

3.5.3 What is the mode of publicizing the expertise of the institution for consultancy services ? Which are the departments from whom consultancy has been sought ?

- The University and all its constituent units have well-designed website on which the consultancy services are regularly updated.
- Pharmaceutical companies, Professional Organizations, National and International Research Organizations, Government and Non-Government agencies like USAID, United Nations International Children's Emergency Fund (UNICEF), UNFDA, ICMR are aware of the competencies of faculty and departments. Research projects completed are usually published in national and international journals and also the data is presented in the Academic meeting. The Portfolio of researchers and consultants are also on websites. Thus, the expertise of institution is known to various stake holders.
- The experts of various disciplines are regularly invited to address issues related to drug formulations, drug manufacturing and its introduction into the market.
- The health check-up camps serve to publicise the clinical expertise in the community.
- The college websites provide information regarding the infrastructure and consultants of the departments.
- The teaching hospital is recognised for providing health care facilities to several health care insurance organisations, co-operative societies, Government and Semi-Government employees. Our satisfied patients serve to popularise the clinical expertise of the consultants.

All the constituent units through the following departments provide consultancy:

- KLES Dr. Prabhakar Kore Hospital
- KLEU Research Foundation
- KLEU Ayurveda Hospital
- Central Research Facility, College of Ayurveda
- Department of Community Medicine
- Department of Public Health Dentistry
- Department of Community Nursing
- Department of Pharmaceutics

- Department of Pharmaceutical Chemistry
 - Department of Pharmacognosy
 - Department of Pharmacology
 - Department of Pharmacy Practice
 - Department of Paediatric and Sports Physiotherapy
- A Community Radio station “**Venu-Dhwani**” FM 90.4 has been established to reach community at large. This is an established community radio station that has infrastructure for sound recording studios. It has been established in association with BECIL (Broadcast Engineering Consultants India Ltd).

3.5.4 How does the institution utilize the expertise of its faculty with regard to consultancy services ?

The University is aware of high caliber of staff and wide range of skills and research expertise. This enables University to increase the academic programs, promote research and patient care.

The expertise of faculty is utilized to:

- Update the curriculum, Teaching learning enhancement, Preventive, Promotive and Curative services, Undertake government/industry sponsored projects, Start new certificate/diploma courses in their expertise and Participate in radio talks.
- The expert faculties share their informations in the high level university committees which facilitates incorporation of these ideas / suggestions for implementation.
- The experts identify and develop need-based programmes / projects for the community. One of the outcomes of this exercise is increase in the number of academic programmes.
- The participation of experienced faculty has enhanced collaborative partnerships both at national and international level.

3.5.5 Give details regarding the consultancy services provided by the institution for secondary and tertiary health care centers and medical/ dental practitioners.

Initiation:

The University provides consultancy services at secondary and tertiary care centers at local, regional, state, as well as, national levels.

Sustenance:

- Secondary level
 - The consultancy services are provided at 5 satellite ICU hospitals managed by the KLEs Hospital, viz. Ankola, Hubballi, Gokak, Gadhinglaj, Jamkhandi, Salgaonkar Hospital, Goa and at Urban Health Center, Rukmini Nagar, Belagavi.
 - The faculty and resident doctors provide secondary level health care services at these satellite centres.
- Tertiary level consultancy services are rendered at all the hospitals of constituent units of University.
- NSS units of constituent colleges and university conduct health related awareness and treatment camps.
- The constituent units organize workshops for benefit of medical/ dental / ayurveda / nursing/ physiotherapy practitioners.
- Teaching hospitals conduct regular workshops on advanced health care.
- Based on the study conducted at KLEU Research Foundation, **misoprostol has been included into the essential drug list of WHO and is implemented in 26 countries.**

Enhancement:

- The faculty members of various departments of the institute are associated in policy making committees of the state and national, as well as, international bodies.
- The Navajat Shishu Suraksha Karyakram (NSSK) national programme is an outcome of “**FIRST BREATH**” study of the University research foundation.
- **The latest news letter (WARNING) of NIH which depicts the ‘use of antenatal corticosteroids’ is an outcome of the ACT trial conducted at this University.**
- The secondary and tertiary healthcare centers have tele-medicine facility.

3.5.6 List the broad areas of consultancy services provided by the institution and the revenue generated during the last four years.

Initiation:

The University has been providing free and paid consultancy services in various healthcare sectors. The healthcare reforms, newer technologies and accountable care have re-wired our consultancy channels that have been able to provide healthcare to the community.

Sustenance:

Total revenue generated in last four years through consultancy is
Rs 24, 78, 94, 809.90

Following are the broad areas of consultancies:

- Consultancy through Hospital Services: Rs 17,30,472,07.90
- Consultancy through research grants :Rs.6,56,46,000
- Consultancy through clinical trials, Industries and others :
Rs.92,01,602

Enhancement:

- The Government schemes and other international programmes and collaboration attached to the hospital have greatly enhanced the consultancy remuneration.
- There has been a significant enhancement in the revenue generated through consultancy in last four years.

3.6 Extension Activities and Institutional Social Responsibility (ISR)**3.6.1 How does the institution sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programs which have created an impact on students' campus experience during the last four years.****Initiation:**

The University along with its constituent units has been carrying-out social outreach programs for those in the community, where access to quality healthcare is beyond their reach. The team of University faculty and students are committed to work towards their social responsibilities alongwith local volunteers and Non Governmental Organizations (NGOs).

Sustenance:

- As a part of the curriculum of all disciplines, students are required to undergo a rotatory internship programme. Degree is awarded after the completion of internship.
- The teaching hospital of the University has five satellite centers located at Nipani, Gokak, Bailhongal, Gadhinglaj and Kakati and three primary health centres, Vantamuri, Kinaye and Handignur and three urban health centres like Rukmini Nagar, Ashok Nagar and Ramnagar respectively to which the undergraduates and postgraduates are posted on regular basis so that they get to know their community-based responsibilities.

- As part of social outreach programs the University and the constituent units conduct health awareness and treatment camps through the NSS units, at various remote areas identified where health care and treatment is required.
- The University also organizes rallies and road shows on days like, 'No Tobacco Day', 'World Heart Day', 'World Arthritis Day', 'World Sight Day', 'World Mental Health Day', 'World Anesthesia Day', etc.
- The University has conducted seven days mega health care annual camps in remote places.
- The University has also conducted dental and medical exhibitions for school children and civilians to make them aware of various diseases.
 1. Dental Exhibition: on the eve of Silver Jubilee, Year 2010, No of beneficiaries-40,000
 2. Medical Exhibition: on the eve of Suvarna Sambhrama 2013, No of beneficiaries-37,738
- The Institute of Dental Sciences in the year 2010-2011, conducted District Oral Health Mission in which 85,558 school children belonging to 888 Government primary schools were screened and 14,887 children were treated for various dental problems. A mega camp was organized at 21 centres on the eve of World No Tobacco Day wherein, 3,299 patients were screened, counseled and provided free dental treatment.
- On the eve of golden jubilee celebration of J.N. Medical College in the year 2013, 12 mega camps were organized on Sundays for the benefit of the rural community. A total of 33,088 patients were benefited.
- Apart from these, routine camps were held by faculty of Medical College, through which 63,000 patients were benefited.
- The Institute of Nursing conducts lactation clinic on every Friday and breast self examination on every Tuesday for patients in the hospital.
- The Institute of Physiotherapy conducts monthly camps to outreach rural population.
- The Red Cross Wing of the University along with the constituent units conducted rallies, and 56 blood donation camps, where 1262 units of blood have been collected.

Enhancement:

- The community outreach programmes have increased the awareness amongst the students and doctors, and has helped in improving the awareness amongst local people towards their health needs.
- The turnout of patients to the hospital has increased. The areas and organizations adopted are being regularly followed up.
- The Community Radio station “Venu-Dhwani” FM 90.4 reaches community at large. Regular health awareness educative programmes in regional languages in the form of lectures, interactions, patients response, interviews, dramas are the modes through which all health care related issues are propagated.

3.6.2 How does the institution promote university-neighborhood network and student engagement, contributing to the holistic development of students and sustained community development ?**Initiation :**

The curriculum of all programs of University has been in-line with the aim of holistic development that is ‘helping students to be the most that they can be’. This has been achieved by promoting students’ involvement in community related works throughout their course.

Sustenance :

- The University promotes neighborhood network through the Department of Community Medicine, Department of Public Health Dentistry, Department of Community Physiotherapy and Department of Community Health Nursing, KLE Hospital and Medical Education Department who organize various health checkup camps in rural and semi urban areas where the interneers and post-graduate students acquire training and also contribute to the sustainable community development.
- The Institution has established a wide network of ICUs and Hospitals in association with non-government organizations, educational institutions of local area and industries of Belagavi and neighbouring districts.
- KLE health care services extend the health insurance coverage to these network of hospitals. Under public private partnership, three PHCs and three UHCs have been adopted for providing complete health care.
- The 2200 bedded teaching and training hospital provides primary to tertiary health care facilities. Out of these 2200 beds, 1200 beds are part of charitable hospital which are free of cost to all the patients. This includes free food, medicine, and investigations, pre and post-operative treatment.

- On every second Saturday, and Sunday of April every year, the Medical College has been organizing CMEs for the general practitioners since last 34 years.

Enhancement :

- Interns are exposed to healthcare, social, economic and environmental problems faced by the rural community. The students and interns thus, develop attitude for service and contribute to community development.
- Students also take part in NSS activities like study tours, community based studies, epidemiological survey, field visits, etc.
- The NSS activities have greatly helped the students to encompass and integrate multiple community related healthcare issues rather than limiting to defining disease possibilities.
- Collaborative Child Responsive Unit (CCRU) takes care of sexually abused children under one roof. This is the only such centre in North Karnataka.
- Psychiatry Day Care Centre is funded by Government of Karnataka.

3.6.3 How does the institution promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International programs ?**Initiation :**

The Vice-Chancellor's Conference held in September 1969, initiated the need for social service as a prerequisite for graduation. In a government statement of National Policy on Education, it was stated that work experience and national service should be an integral part of education. With this historical policy, the KLE Society has implemented the need of National Service towards society. The University has an active National Service Scheme (NSS) and Youth Red Cross Wing (YRCW) and all its eight constituent units have well established NSS and YRCW Units. These systems plan and execute the various extension activities in which the students and faculty actively participate.

Sustenance :

- The University has 8 NSS units with 1289 volunteers (Male: 490 and Female: 799). The NSS unit organizes various social activities through NGOs. They adopt the village and help the state machinery to implement their schemes in the adopted village. They also carry out socio-economic surveys.

- The University promotes extension activities through the Department of Community Medicine, Public Health Dentistry, Public Health, Community Physiotherapy and Community Health Nursing, KLE Hospital and Research Foundation by organizing various health checkup, diagnostic, treatment, and educational camps in rural and semi urban areas where the internees and postgraduate students acquire training and also contribute to the sustainable community development.
- In last four years, the University and its constituent units have conducted **4244** camps through which **4,24,400** number of people were benefitted.
- A number of outreach programs are organised by the NSS unit of University along with constituent units like:
 - Health check up and treatment camps
 - Blood donation camps
 - Health education activities
 - Movie screening on ‘World Environment Day’ and ‘Global Warming’
 - Awareness talks on world population day
 - Importance of breast feeding during ‘World Breast Feeding Week’
 - Sex education for adolescent girls
 - Essay writing and poster making competition on ‘World AIDS Day’
 - The constituent units in association with Red Ribbon Club and with Youth Red Cross unit organizes events for awareness and prevention of AIDS.
 - BLS training workshop
 - Peace march and a skit on International Non-violence day
 - Talk and street play on No tobacco day
 - Other activities like Vanamahotsav, Sadbhavana Day and Awareness Rallies
- University has also conducted Dental and Medical exhibitions for common people and school children to make them aware of various communicable and non-communicable diseases, plethora of diagnostics and treatment procedures. It also highlighted certain preventive and precautionary measures.
- The students and faculty of constituent colleges are members of Youth Red Cross (YRC) Society of India and actively participate in camps conducted by YRC. In last two years, **26** programs have been conducted.

Enhancement:

- The participation of students in NSS activities gives them freedom of decision, analyses of their judgement, social abilities, assessment of their self-knowledge and a sense of involvement in the tasks of nation building.
- The students are made aware of the motto of NSS i.e. "NOT ME, NOT YOU, BUT WE" which reflects the essence of democratic living. It upholds the need for selfless service and appreciation of the other person's point of view and also to show consideration for fellow human beings.

3.6.4 Give details of social surveys, research or extension work, if any, undertaken by the institution to ensure social justice and empower the under privileged and the most vulnerable sections of society ?**Initiation :**

- Social justice policy of the state aims at providing the basic amenities like primary health, primary education, safe drinking water, sanitary facilities, food and food security.
- The University is in line with the state policies and has been providing range of public services in healthcare sectors.

Sustenance:

- Before taking up camps in villages, a health and hygiene survey is carried out to understand the healthcare problems and the services needed.
- The Community Medicine, Paediatric, Obstetrics / Gynecology Departments and NSS through their various outreach activities supplement and compliment the state functions.
- The teaching hospital of the University is recognised by the Government of Karnataka, Goa and Maharashtra for their health care schemes.
- On the eve of JNMC golden jubilee celebrations, twelve health check up & treatment camps were conducted in 2013, in all the Talukas of Belagavi district including some talukas of Maharashtra. In all, 33,008 patients were examined, many were investigated for diabetes and heart diseases, and were treated. Those who required further tests and operations were referred to KLEs Dr. PK Charitable Hospital. About 70-80 Doctors along with the nursing, para medical and supporting staff participated in these camps.

- **280** tobacco awareness camps were conducted and **56,275** citizens were examined.
- 85,558 citizens were examined in oral health mission programs.
- The Institute of Nursing Science has conducted outreach programs like malnutrition survey, cervical cancer screening camp, TB detection camp, HTN detection camp, visits to the old age home and blind school for the health check up and various health education programs for the commercial sex workers and prisoners in jail.
- Survey on knowledge, attitude, usage amongst residents of Belagavi regarding cultivation of medicinal plants in their gardens and their utility was carried out by Institute of Ayurveda in collaboration with ICMR.
- PG students also conduct surveys regarding ethnobotany, ethnomedicine, local health traditions and traditional practitioners.
- The primary health centers attached to the University cater to the society through National Rural Health Mission Schemes.
- The vulnerable sections of society are benefited through tele-medicine facility available at the hospital and primary health center.

Enhancement :

- The outreach programmes conducted by the University are useful to solve health related problems of lakhs of people.
- It has also served as an opportunity for the students and faculty to understand the community based health care issues and facilitated holistic development of the stake holders.
- Through public private partnerships, community based outreach programs are conducted to reach the unreached where more than 250 thousand pregnancies are monitored through MNH registry.

3.6.5 Does the institution have a mechanism to track the students' involvement in various social movements / activities that promote citizenship roles ?

Yes

Initiation:

There are various systems in place to track student involvement in social movements and to promote citizenship roles.

Sustenance:

- As a part of the curriculum of all disciplines of University, students are members of NSS and YRC. Participation is monitored for social activities and activities organized on National days.
- Students are part of rallies, awareness campaigns and roadshows which are organized on No Tobacco Day, World Heart Day, World Arthritis day, World Sight Day, World Mental Health Day, World Anesthesia Day, World Water Day, World Disability Day, World Downs Syndrome Day, etc.
- Every year on the occasion of Rajoystava Day 1st Nov., the Kannada Balaga, component of university, takes out the tablau in the procession depicting the contemporary social moments like, drug abuse, ill effects of tobacco and smoking, atrocities against women, etc.
- On the occasion of Basava Jayanti, the messages of Basaveshwara, a social reformer of 12th century, are disseminated to the public through procession accompanied by tablau.
- Talks on spritual and moral values, personality development, ethical issues by renowned personalities from Ramakrishna Mission, Bhramkumari Ishwari Vishvavidyalaya, etc. are regularly organized for the student population.
- The University organizes awareness programmes with participation of students on issues like, voters awareness, child abuse, human trafficking, road safety measures, environmental issues, bio-medical waste disposal and consumer protection and human rights, Right to information (RTI), etc.
- Through the students' Welfare of University, the students are encouraged to take part in students' parliament, national debate competition on social issues, essay compitetions every year.
- All the constituent units have elected Students Council which conducts variety of programmes including, those related to social awareness and citizenship.
- Every year two workers/NGOs are felicitated during annual function to promote college-neighborhood network.
- Cultural and traditional festival like Onam, Holi, Navaratri, Basava Jayanti and Ganesh Festival are celebrated as part of social togetherness.

Enhancement:

- Felicitation of “Unsung Heroes” during annual programs of the University.
- Donations to blind school, orphanage, home for destitute and old age homes are given in the form of assistive devices, medicines, clothes, fruits and basic necessities other than health care services.
- Students participate in health check up, health education through programs like Samajparivartan, specially focused on commercial sex workers of Belagavi district.
- The female students actively participate in programmes organized by Empowerment Cell for Women of University, through which programs of social awareness are conducted on International Women’s Day like, child marriage, female feticide, child abuse etc.
- **“Right’s Life- Life’s Right”** is another awareness programme for students.
- **Swachh Bharat Abhiyaan-** A national programme launched by the Honourable Prime Minister of India has been implemented in high spirits by the University as **Swachh Bharat – Swasth Bharat**. All stake holders of the KLE University are involved in cleanliness drive in and around their work place on every Friday for 2 hours.

3.6.6 How does the institution ensure the involvement of the community in its outreach activities and contribute to community development ? Give details of the initiatives of the institution that have encouraged community participation in its activities.**Initiation:**

The University has been attempting to fill-up the gaps in healthcare services provided by the main stream to the community through its outreach activities.

Sustenance:

- The Institute has started many joint ventures of extension, research and outreach programmes with the various communities involving them in those activities. These programmes have improved health awareness and to some extent quality of life.
- Many of the extension activities are done as peoples programmes by involving the local community.

- The elected members of village and Taluk Panchayats are taken into confidence in the extension activities; they help to motivate the people and mobilize them to participate and take benefit from these programmes.
- Religious and community leaders also participate in planning and implementation of these activities. Name and signatures of the residents are taken & maintained in a separate register at Rural and Urban Health Centres.
- The school children are involved in awareness rallies, participating in poster, drawing, essay and elocution competitions which are conducted for school children on different health related themes e.g. world population day, Best out of waste, world environment day, blood donation, world AIDS day.
- The teaching hospital caters multidisciplinary free services to the community. Three PHCs (Kinaye, Vantamuri & Handigunur) & three UHCs (Ramnagar, Ashok Nagar & Rukmini Nagar) have been under the care of the health services of this University. Ambulance services are provided to each PHC and the consultants from constituent colleges visit regularly. Cataract operations, tubectomy, antenatal services, family welfare services are provided. These PHC's are connected via tele-medicine facility.
- The birth attendants from the local community are trained to provide improved obstetric and newborn care. Training to birth attendants has also helped them to conduct the deliveries under hygienic conditions and timely reference. 'Birth attendants' and new-born care, breast feeding, adolescent problem awareness are imparted by the faculty members.
- The ASHA and Anganwadi workers are trained through the KLE Research foundation and are the main field based workers for projects like "Maternal and Newborn Health Registry (MNH Registry)", "Antenatal Corticosteroids Trial in Preterm Births to Increase Neonatal Survival", "Helping Babies Breathe" project, Two strategies of misoprostol for prevention of PPH, Clindamycin for prevention of preterm labour", The CLIP (Community Level Interventions for Pre-Eclampsia) Cluster Randomized Controlled Trial, etc.
- Homebased life saving skills are being provided to the household members.
- Educational leaflets, newsletters, advertisements and poster displays are some of the methods adopted by the university for community education.

Enhancement:

- Infant Mortality Rate (IMR) and Maternal Mortality Rate (MMR) have reduced by 1/3rd in 28 PHC areas where health personnel and birth attendants were trained by the team of research centre. NRHM programs are strengthened by the outreach activities of research training team.
- There is substantial increase in the number of people seeking dental attention at primary, secondary and tertiary centres which reflects on an increase in the oral health awareness.
- Establishment of community radio station “Venu-Dhwani” has helped to widen the outreach programs. The spirit of community radio station is to provide ‘*Voice to the Voiceless*’.

3.6.7 Give details of awards received by the institution for extension activities and/contributions to social / community development during the last four years.

The contribution to social and community development started in 1916 by seven dedicated teachers, fondly called as “*Saptarishis*” who were founder life members of KLE Society. Their sole aim was imparting education to the socially and educationally backward region of North Karnataka. Ever since, the policies for contribution towards social and community development have been formulated. The University has adopted similar policies towards community development, since its inception.

- The constituent units are recognized by Government of Karnataka for several schemes like Balasanjeevini, Suvarna Arogya Chaitanya, Vajapayee Arogyashree, Yashaswini Health Insurance Scheme, etc.
- Government of Karnataka has handed over three PHCs and three UHCs to KLE University for running them efficiently and rendering health care services.
- Recognizing the services of the University and its constituent units towards community oriented activities, 22 funded research projects have been received from international agencies (NICHD, USA, WHO, etc.).
- Government of Karnataka provided an opportunity to the University to host state level camps for NSS Programme Officers of the state.
- Letters of appreciations are received from various Grampanchayats and NGO’s of Belagavi district for contribution towards extension activities.

- The Chancellor of the KLE University has received “Life Time Achievement award” for educational reforms at the hands of super star Mr. Amitabh Bacchan and another award from a great entrepreneur Mr. Ratan Tata. He is also recipient of Honorary Doctorate from Karnataka University, Dharwad & Rani Channama University, Belagavi for his contribution in the field of education and health care.
- Letter of appreciation is received from Ms. Kathleen Sebelius, Health Secretary of United States of America for the work done by the KLE Research Foundation in the field of Women and Child Health.
- One faculty has been awarded “**Seva Ratna**” for his contribution to social welfare activities.
- The teaching hospital of University has been recognized as “**Baby Friendly Hospital**”.
- Sarvodaya Mandal Gandhi Book Centre, New Delhi has appreciated the efforts of KLE Academy of Higher Education and Research in celebration of International Non-Violence Day on 2nd October every year.
- One faculty member is a recipient of Karnataka Rajyotsava Award for his contribution towards medical care.

3.6.8 What intervention strategies have been adopted by the institution to promote the overall development of students from rural/ tribal backgrounds ?

- Orientation programs are conducted for the students from rural / tribal background in general.
- Separate teaching in English language / local language for enhancing their communication skills.
- Student counselor and mentors look after the overall performance in academics, address the issues related to performances and their psychological needs.
- The learning resources like CD’s, Videos, DVD’s, Books, journals are made available to students. The campus has free Wi-Fi connectivity for internet usage.
- Students are motivated to participate in extra-curricular, including sports, activities.
- “**Earn while you learn**” is a scheme initiated by University for the rural and socio-economically backward students.
- Opportunities are provided to the students from rural and tribal background for performing well in sports and games under the supervision of well-trained physical instructor.

3.6.9 What initiatives have been taken by the institution to promote social-justice and good citizenship amongst its students and staff? How have such initiatives reached out to the community?

- The University ensures that the awareness and treatment modalities reach out to the community by on-field camps.
- Law and Jurisprudence, Constitution of India and Environmental Science are taught in UG curriculum.
- Regular lectures are organized in Sociology, Ethical Values, etc. for the benefit of students and staff.
- The films depicting importance of environmental conservation, child marriage, female feticide, etc. are exhibited for all.
- Street plays and rallies are held regularly involving staff and students on health and women empowerment issues. Other community-oriented services are:
 - (i) Rendering free health services, adoption of old age homes and orphanages.
 - (ii) Adoption of PHCs and villages for health related issues.
 - (iii) Taking health care to the door step.
 - (iv) Participation in burial of unclaimed bodies.
 - (v) Recognition of meritorious students from low socioeconomic background and rural areas.
- The University has also ensured that the objectives of National Rural Health Mission–II and National Urban Health Mission (NUHM) are clearly understood by the students and staff for implementation.
- The University has adopted innovative practices of good citizenship through its activities like, plastic free zone, waste disposal management, vehicle free zones in campus, promotion of non-violence.
- As part of 100 days agenda, the eight NSS Units of the University have aggressively implemented tree plantation campaign of Government of India. Under this program thousands of trees have been planted. The University promotes clean and green campus.
- The University promotes gender equality in curricular and extra curricular activities, both for staff and students. It also promotes gender equality in leadership issues.
- The University Cell for Women is established to cater to the issues related to social justice and safety of women employees and girl students.

- Whenever a major social issue has to be articulated, members of community approach the institution and seek the participation of students.
- The faculty and students actively participate and assist during disaster and natural calamities like, earthquake, floods, epidemics and major accidents.
- The students are informed about the value education, spirituality and ethics during the orientation program. Involvement of the parents to support their wards in such good practices is encouraged.

3.6.10 How does the institution align itself with the annual themes / programs of WHO / ICMR ?

- Keeping in view WHO slogan and ICMR theme every year and on the basis of prevailing diseases in the community, the University along with its constituent units identifies community-based programs for the needy.
- Based on WHO themes like, “Vector-borne diseases: small bite, big threat”, “Healthy heart beat, Healthy blood pressure”; “Good health adds life to years”; “Anti-microbial resistance: no action today, no cure tomorrow”; “Urbanization and health: make cities healthier”, etc. the University complies with and conducts rallies, awareness programs, health camps, poster exhibitions, Yoga/ meditation camps, seminars, guest lectures, workshops, etc.
- ‘World No Tobacco Day’, ‘World Environment Day’, ‘World Heart Day’, ‘World Disability Day’ are observed by conducting rallies and awareness camps in-line with the theme of WHO.
- Celebration of WHO DAY themes at Urban / Primary Health Centers of the University are performed as regular activities.
- Postgraduates of Community Medicine / Dentistry /Physiotherapy /Pharmacy/Ayurveda/ Nursing and MPH students are encouraged to present seminars based on WHO and ICMR themes.
- Staff and students are motivated to undertake research projects in alignment with WHO and ICMR thrust areas.
- In tune with the 2012 WHO theme “Active Aging: Good Health adds life to years”, the teaching hospital has established Geriatric OPDs and have conducted national & international conferences to generate awareness and update knowledge of geriatrics.

3.6.11 What is the role of the institution in the following extension activities ?

- * **Community outreach health programs for prevention, detection, screening, management of diseases and rehabilitation by cost effective interventions.**
- * **Awareness creation regarding potable water supply, sanitation and nutrition.**
- * **Awareness creation regarding water-borne and air-borne communicable diseases.**
- * **Awareness creation regarding non-communicable diseases - cardiovascular diseases, diabetes, cancer, mental health, accident and trauma, etc.**
- * **Awareness creation regarding the role of healthy life styles and physical exercise for promotion of health and prevention of diseases.**
- * **Awareness creation regarding AYUSH Systems of medicines in general and / or any system of medicine in particular.**
- * **Complementary and alternative medicine.**
- * **Pharmaco-economic evaluation in drug utilization.**
- * **Participation in national programs like Family Welfare, Mother and Child Welfare, Population Control, Immunization, HIVAIDS, Blindness control, Malaria, Tuberculosis, School Health, anti tobacco campaigns, oral health care, etc.**
- * **Promotion of mental health and prevention of substance abuse.**
- * **Adoption of population in the geographical for total health care.**
- * **Research or extension work to reach out to marginalized populations.**

Initiation :

Aim and objectives of the University, the curriculum of the University programmes, the objectives of NSS, Epidemiological and research activities focuses on community outreach extension activities.

Sustenance:

- * **Community outreach health programs for prevention, detection, screening, management of diseases and rehabilitation by cost effective interventions.**
 - The University through its constituent units organizes and implements various out-reach activities in rural and semi-urban areas for prevention, detection, screening, management of diseases and rehabilitation by cost effective interventions.
 - In last four years, 4244 health check-up camps, rallies, awareness programs, blood donation camps, body donation camps, etc. were conducted.

- Community outreach programs conducted in collaboration with agencies/NGO's/institutions/Universities: Government of India and Karnataka State, District Health Administration, Zilla Panchayat, Gram-Panchayat, Rani Chennamma University, VTU, Rotary Club, BIRD's Organisation, Mahesh Foundation, Women's Empowerment Cell, other schools and colleges involving the community have helped in forming a good Institution-community networking.
- The Institution has established partnerships with several international organisations for the community-based research projects to promote extension activities.
- Undergraduates, internees and post-graduate students acquire training and also contribute to the sustainable community development.

* **Awareness creation regarding potable water supply, sanitation and nutrition.**

- The faculty and students with PHC health workers and Village sanitation and health committee conduct awareness and educational activities. They also perform periodic sampling of the water sources in the village and submit the sample for analysis. The information regarding the contaminated water reserves is disseminated in the village and appropriate measures are taken to disinfect them.
- The faculty and students along with PHC staff and health workers provide education on nutrition with the help of charts and demonstrations of nutritious dietetic elements.
- The Institute's NSS unit organizes World Water Day Rally, lectures and demonstrations on water conservation, rain water harvesting, increasing ground water level to create awareness in the general public regarding water conservation.
- The various departments of constituent units like, community nursing, paediatrics, obstetric and gynaecology, community medicine, community physiotherapy, etc. organize adolescent health education programs, provide free medicines like iron, calcium tablets to adolescent girls, undertake screening for anemia and protein malnutrition among children and also create awareness on sanitation and nutrition.

*** Awareness creation regarding water-borne and air-borne communicable diseases.**

- The public is educated through awareness programmes about prevention and control of acute diarrhoeal diseases and respiratory infections by the health workers, interns, PGs and medical officers. During these programmes, preparation and use of ORS and use of other home based fluids are demonstrated. National Oral Rehydration Solution (ORS) Awareness week and Global Hand Washing Day are observed every year with slogans such as **‘Your Health is in Your Hands’**.
- With permission from District Commissioner, Taluka and Panchayat Heads, lectures are organized by the University alongwith its constituent units to create awareness regarding water-borne and air-borne communicable diseases.

*** Awareness creation regarding non-communicable diseases - cardiovascular diseases, diabetes, cancer, mental health, accident and trauma, etc.**

- ‘World Heart Day’, ‘World Diabetes Day’, ‘World Cancer Day’, ‘World Mental Health Day’, ‘World Suicide Prevention Day’, ‘National Road Safety Awareness Programme’, ‘International Day Against Drug Abuse’, ‘National Nutrition Week’, ‘National Breast Feeding Week’, etc. are celebrated every year during which lectures, rallies, road shows, poster exhibition, free health check-up camps, etc. are organized by respective Departments to create awareness regarding non-communicable diseases.
- Demonstrations regarding first aid and CPR (Cardio Pulmonary Resuscitation) are given to the community.
- Road traffic accident safety program (baseline survey) funded by World Bank (Karnataka Health System Development & Reforms Project) was conducted by Department of Community Medicine in the year 2012-13.
- Department of Community Medicine is conducting SHOPS TB project funded by United States Agency for International Development (**USAID**) and KHPT, Bengaluru.

*** Awareness creation regarding the role of healthy life styles and physical exercise for promotion of health and prevention of diseases.**

- Lectures / programmes are organized by faculty and students of various departments for public to create awareness regarding importance of healthy life styles and physical exercises for promotion of health and prevention of diseases.

- Free fitness camps and Yoga classes are conducted after working hours for faculty and students by Institute of Physiotherapy and Women Empowerment Cell.
 - Exhibitions on health care issues are regularly organized.
 - Various faculties participate in radio talks and public debates on topics of healthy life style.
 - In the campus, promotion of health among students and staff is encouraged through infrastructure facilities like gymnasium, swimming pool, tennis, badminton, basketball court and indoor stadium.
- * **Awareness creation regarding AYUSH Systems of medicines in general and / or any system of medicine in particular.**
- The University boasts of having a well equipped Ayurveda hospital as one of its constituent units.
 - Panchakarma, Suvana Bindu and other practices are offered regularly to the community.
 - The state of art facility for these treatments is available which is recognized at national level. Lectures, Workshops and Health Camps are regularly organized through this institute.
- * **Complementary and alternative medicine.**
- Medicinal plant garden with around 6800 medicinal plants belonging to more than 450 species is available.
 - A total of 280 preparations (269 classical, 9 proprietary and 2 food products) are manufactured at ayurvedic hospital based on Good Manufacturing Practice (GMP).
 - Crude drug museums in Pharmacy Colleges and College of Ayurveda constitute important component of teaching-learning.
 - The teaching hospital of the University has alternative medicine services that includes specialist in Ayurveda, Yogic-Science, Naturopathy and Homoeopathy and guided Meditation. Benefit for the patients is that they have a single, efficient, accountable source for their health related needs.
 - Many research projects have been undertaken regarding the AYUSH system of medicine.

* **Pharmaco-economic evaluation in drug utilization.**

- Through Department of Pharmacology of Medical College and the colleges of Pharmacy, lectures are organized on pharmaco-economic evaluation in drug utilization.
- Drug information centre is available at teaching hospital with necessary infrastructure (Micro-Medex Drug Desk and Drug React) to provide drug information to the health care professionals and patients.
- The Drug Committee of the hospital (represented by each department along with microbiologist and clinical pharmacist) monitors the drug usage policy of the hospital.
- The Department of Pharmacy Practice conducts drug auditing twice in a year. The drug auditing is based on following parameters: storage condition, stock availability, near expiry date drugs, expired drugs, unlabelled drugs, spurious drugs and drug look-a-like, sound-a-like (LASA).
- The constituent units conduct lectures on judicious utilization and storage of drugs, safe use of drugs and generic drug usage at community level.

* **Participation in national programs like Family Welfare, Mother and Child Welfare, Population Control, Immunization, HIVAIDS, Blindness control, Malaria, Tuberculosis, School Health, anti tobacco campaigns, oral health care, etc.**

- The University, through all Departments of its constituent units, collaborates with office of District Commissioner to organize programs on family welfare, mother and child welfare, population control, immunization, HIV, AIDS, blindness control, malaria, tuberculosis, school health, anti-tobacco campaigns, oral health care, etc.
- As part of NSS activity, all the constituent units participate in the above mentioned missions set in by WHO and Research organizations.
- The PHCs covered under public-private partnership have been over shooting their targets set by national programmes such as Family Welfare (tubectomy, copper-T insertion, distribution of combined oral contraceptive pills and condoms), blindness control (screening for cataract and bring them for IOL, vitamin A prophylaxis in children upto 5 years with ICDS), malaria (active and passive case detection and radical treatment), tuberculosis (case detection and DOTS treatment) and universal immunization programme (BCG, DPT, OPV, Hepatitis B, Measles and TT).

- The Department of Paediatrics is actively involved in AFP surveillance and reporting programme. WHO and Government of India have **recognised it as AFP Reporting Center under National Polio Eradication Programme.**
- The Department of Ophthalmology along with District Blindness Control Society (DBCS) is involved in screening and free cataract surgeries as part of National Programme for control of Blindness.
- Major and minor research projects are ongoing on mother and child health through the Research Foundation of the University in association with ICMR and other International agencies.
- World AIDS Day is observed by the University through the constituent units. Visits to AIDS rehabilitation centers are organized. Necessary oral and general treatment is provided to the inmates of these centers.
- Primary schools are adopted by Dental Institute to provide necessary oral treatment. School children are made aware of oral health care by live demonstration and video displays on proper brushing techniques and various treatment modalities available for oral diseases.
- Awareness of adolescent reproductive health is created in the school health programmes undertaken by the University.
- Anti-tobacco campaigns are organized at city bus stands and railway stations with permission of District Commissioner to make community aware on ill effects of tobacco, both in smoked form and non-smoke form. School children are made aware of ill effects of tobacco by lectures and display of posters.
- Community research is conducted to reduce morbidity and mortality of women and children in collaboration with national and international agencies like NIH, ICMR, WHO.
- School for differently-abled is adopted by the Institute to provide necessary physiotherapy services.
- University Cell for Women conducts sensitization programmes on social issues like human trafficking, pornography & abortion by the 'RESCUE' organization for child welfare.

*** Promotion of mental health and prevention of substance abuse.**

- Department of Psychiatry provides de-addiction services. It observes World Mental Health Day and World Suicide Prevention Day for adolescence and youth. Adolescent teaching arranged to combat stress and substance abuse among school children.

- Counseling of patients is done by qualified counselor.
- The Institute of Dental Sciences has “tobacco registry” and “tobacco de-addiction center” for prevention of substance abuse.

*** Adoption of population in the geographical area for total health care.**

- Three Primary Health Centers run by the University have adopted more than 100 villages in rural area covering a population of 1,10,000 for health care needs.
- Three Urban Health Centers covering a population of 1,00,000 have been adopted in urban slum areas of Belagavi for health care.
- The Research Foundation of the University has adopted 30 PHCs for maternal and new born health (MNH) registry through which the maternal mortality rate, perinatal mortality rate, neonatal mortality rate, crude death rate, crude birth rate of the district have declined in last five years.
- Research extension activities have been extended to 4 districts (Bagalkot, Vijayapura, Belagavi & Kolar) through projects undertaken by Research Foundation sponsored by NIH, GYNUITY, WHO etc.
- Villages are adopted by the University along with its constituent units for total health care.
- The Institutes have adopted home for destitute, Vrudhashram Kinaye, Belagavi and three special schools for differently abled children for health care services to serve the diverse population in the geographical limits.
- The teaching hospital & MRC is recognised by Government of Maharashtra, Goa and Karnataka for Yashaswini, Balasanjivini, Arogya Bhagya, ECHS, ESI, DBCS and other insurance schemes for reimbursement.

*** Research or extension work to reach out to marginalized populations.**

- Research activities in the constituent units include the health needs of marginalized population in society. Thrust areas of research are identified so as to benefit the underprivileged (reaching the unreached).

- For the benefit of marginalized populations programmes like anti-tobacco campaigns, free denture week, free fillings, oral hygiene day, health and nutrition awareness programs for women and child, sanitation, rehabilitation for geriatric population are conducted.
- The teaching hospital provides free treatment, diagnostics, medicines and major surgeries including food. It also provides preventive, promotive and curative services through various programmes.
- Mobile clinics having state of art medical and dental facility are used to reach out to the marginalized populations to cater to their health care needs.

Other achievements

- Government of Karnataka has sanctioned a ‘Day Care Center’ for people suffering from mental illness through the district administration.
- Center for Disease Surveillance at teaching hospital is established.
- Health care services and research activities are extended to other districts of Karnataka and other states.
- Number of collaborations for extension activities are increased.
- The nutrition related projects are initiated in the community to improve the preconceptional health with the objective of **“Healthy baby to a healthy woman”**.

3.6.12 Do the faculty members participate in community health awareness programs ? If yes, give details.

Yes

- In the last four years, 301 health check-up camps, 56 blood donation camps and 230 health education programs have been conducted by NSS units of the University in which most of the faculty members actively participate.
- Faculty members of all constituent units are important resource persons who guide and participate in community health awareness programs.
- Faculty members deliver lectures on community health awareness, both for communicable and non-communicable diseases, on occasions like ‘World Heart Day’, ‘World Diabetes Day’, ‘National

Cancer Awareness Day', 'World Suicide Prevention Day', 'International Day Against Drug abuse', 'National Nutrition Week', 'National Breast Feeding Week', etc. The lectures are also given on stroke, peripheral vascular diseases, coronary artery diseases, life style modification, cerebral palsy, leprosy, national road safety awareness, etc.

- Faculty members participate actively in mega health camps regularly organized in rural areas.
- Mobile clinics (Medical & Dental) are used for community health awareness programmes and health check up which involves faculty members.
- Faculty participate in awareness programs through radio talks and educative movie on drug abuse, rallies, lectures and counselling for NGOs, institutions, old age homes, etc.

3.6.13 How does the institution align itself and participate in National program for prevention and control of diseases ?

National program for prevention and control of diseases is part of curriculum for various programs through which institution aligns itself in imparting education to undergraduates and postgraduates on prevention and control of communicable and non-communicable diseases.

- In all three urban and three rural health centers the institutions regularly monitor and implement national programmes.
- The University organizes National programs for control of blindness, program for health care of the elderly, etc.
- The teaching hospital also has geriatric care facility which enhances geriatric care.
- Mobile van facility is used for participation in national programmes for prevention and control of diseases.
- The University has ensured that the objectives of National Rural Health Mission –II and National Urban Health Mission (NUHM) are clearly understood for prevention and control of diseases by the students and staff for implementation.
- The aim of community research is also to meet the NRHM & NUHM goals.

3.7 Collaborations

3.7.1 How has the institution's collaboration with other agencies impacted the visibility, identity and diversity of campus activities? To what extent has the institution benefitted academically and financially because of collaborations ?

The outlook of the University itself changed with the type of collaborative research projects undertaken. This has not only improved the quality of research work, but also publications and health care services, and facilitated development of EBM.

- The University is on the **global map** because of its international collaborations with **NICHD, USA** (National Institute of Child Health Development), Universities like University of Illinois, University of Manitoba, University of British Columbia, University of Rhodes, etc.
- The KLE University's Research Foundation has been doing excellent work in the field of maternal and child health. The University's research Foundation is **one of the eight Global Network sites across the world and considered the best site. The exemplary work has been appreciated by dignitaries like Secretary of Health & Human Services USA, Union Health Minister, Government of India and other dignitaries.**
- University research is carried out with financial support from national research organizations like, ICMR, NARI, DST, CISR, AYUSH, CSIR, IGIB, etc.
- Government of India has placed KLE Academy of Higher Education and Research in Category 'A' by MHRD which reflects the efforts of the University in providing quality education and health care.
- University's J. N. Medical College has been identified as **Regional Center** for ICMR training.
- J.N. Medical College is recognized by Ministry of Health and Family Welfare under Scheme Human Resource Development for Health Research (DHR) in the subject areas of Geriatrics and Good Laboratory Practices (GLP).
- KLE College of Pharmacy, Belagavi is recognized as **Nodal Center for QIP by AICTE.**
- Central Research Facility of KLE Ayurveda College has been recognized as **approved ASU (Ayurveda, Siddha, Unani) Drug Testing Laboratory by Department of AYUSH, Government of India.**
- DOME (Department Of Medical Education) J.N. Medical College, Belagavi is **recognized by MCI as Nodal Center for advanced Medical Education Technology with 39 institutes** under its umbrella.

- The University has collaborations with Government of Karnataka through public private partnership under which three primary health centres and three urban health centres are adopted to give primary and secondary health care.
- The infrastructure has improved by leaps and bounds with state of art facility for research and academic growth.

Academic and financial benefits

- Various new academic programs have been started.
- Faculty and students are encouraged to enrol into newer academic programs with concession in tuition fees.
- Grants from national and International agencies have helped to carry out quality research with tangible outcome, improve infrastructure facilities and financial benefits to faculty.
- Students, research scholars and faculty members reap the benefits of these collaborations which include student training, student exchange, faculty exchange, product research, application-oriented research and resource sharing.
- Many postgraduate students get an industrial exposure by carrying out their dissertations in industries and thereby, improve their employability. Joint research efforts, proposals from funding agencies addressing the need of industry and societies are made.
- Seminars, Workshops, National and international conferences are conducted in collaboration with agencies such as AICTE, ICMR, NIH, UGC, NAAC, Association of Indian Universities(AIU) etc which have benefitted scientific and academic communities to disseminate and share their knowledge.
- There has been an increase in number of collaborations with international and national agencies. This has led to improvement in teaching learning methods and health care.
- Increase in number of scientific publications in both quantity and quality. The publications have increased to 2750 in last four years compared to 681 publications before 2010.
- Quality research has received recognitions through awards, distinctions and grants.
- Psychiatry Day Care Centre funded by Government of Karnataka has been established.

3.7.2 Mention specific examples of how these linkages promote

- * **Curriculum development**
- * **Internship**
- * **On-the-job training**
- * **Faculty exchange and development**
- * **Research**
- * **Publication**
- * **Consultancy**
- * **Extension**
- * **Student placement**
- * **Any other (specify)**

Strategic alliance with benchmarked Universities, research institutions and the State Government, facilitate interface with various professionals, teachers and scientists to keep pace with the latest development in health sciences. The linkages help the University and its constituent units to prepare an innovative and integrated teaching-learning process.

*** Curriculum development**

- It helped to learn and bring about reforms in curriculum by trained faculty. For example, introduction of OSCE / OSPE, MCQs in formative and summative assessment pattern.
- Multidisciplinary approach based curriculum could be built.
- Collaboration with Jean Causes Ear Clinic at France has helped to develop the curriculum of Fellowship in Micro ear surgery. Post Graduate Diploma in Health Professions Education (PGDHPE) curriculum was developed in collaboration with University of Illinois, Chicago. The collaboration with University of Michigan has been useful to develop the syllabus and the curriculum for Master of Public Health Programme (MPH).
- Research linkages with national and international agencies e.g. 'Oncogrid', 'Smile Train project' 'Brain Hit Project', 'FIRST BREATH project', etc. with agencies like NIH, WHO, Bill Gates foundation, ICMR, DST / DBT, etc. have promoted changes in the curriculum based on the research outcome.
- Expert opinions and inputs from collaborating academic, industrial experts, supervisors and students are taken into consideration for curriculum development.

*** Internship**

- Interns are posted to centers of excellence to enhance clinical skills and expertise. For example, students are posted to AIIMS, New-Delhi and NIMHANS, Bengaluru.
- Institute of Ayurveda has an agreement for internship with Middlesex University for the students of Ayurvedic degree program.
- Working in primary health centres and the charitable hospital during compulsory rotating internship programmes gives opportunity for on-the-job training.
- Institute of Pharmacy, Belagavi has collaboration with some of the industries for training during UG & PG programme and all B. Pharm students undergo internship training in industries.
- Interns of the MPH programme are posted at national and international organisations like UNICEF, IPH, KHPT, INCLEN- India, etc.

*** On-the-job training**

- On-duty leaves are provided to faculty to pursue on-job training at centers with which University has created linkages. Financial support towards travel and incidental expenses is provided.
- The linkages help in executing in-service programmes and continuing learning activities. These linkages promote faculty development programmes like, training and orientation on a continuous basis.
- Faculty, who are part of research team, undergo on-job-training for the funded projects and clinical trials.
- M.Pharm Students carry out their research work with industrial collaboration and get exposed to on-the job training in industries. Several informative inputs are given by industrial collaborators to the training and placement cell of the Institution.
- University has made provision for in-service faculty to enroll for higher studies offered like Ph.D., PGDHPE and fellowship programs.

*** Faculty exchange and development**

- Faculties are deputed to foreign universities and universities of national repute for academic benefits, clinical skill enhancement, research training and promotions. To state a few examples are:
 1. MOU with Rhodes University, South Africa has facilitated exchange of faculty and research scholars. This has helped in development of research activities in the field of pharmacognosy and clinical research.

2. The MOU with Government College of Pharmacy, Panaji, Goa for faculty development and academic inputs enables faculty members to visit the institution and deliver the lectures for undergraduate and postgraduate students.
3. MOU with Sanofi Aventis, Goa is developed for postgraduate research work.
4. The Institute of Nursing Science has signed the MOU with East Anglia University, Norwich, UK under the UKIERI grants for the capacity building of mid-wifery faculty.

*** Research**

- Linkages have helped involvement of more than 60% of faculty in research activities.
- Amount generated from research grants has increased over the past five years. Total grant of Rs. 32.823 crores has been received from national/ international agencies and from clinical trials with pharma companies.
- The linkages have helped the post graduates, research scholars and faculty to obtain cross sectional clinical data for their research work. Collaborative research for postgraduate and doctoral degree is promoted through linkages.

*** Publication**

- The number of publications has shown a multifold increase in high quality journals. In the last four years, 2750 papers have been published in national / international / regional journals.
- Linkages have facilitated publications in journals like, New England Journal of Medicine, BMJ, Lancet, American Journal Perinatology, etc. which are covered under Scopus. This has facilitated faculty recognition on international platform and in research arena.
- Linkages provide an opportunity for faculty and students to publish their research work in the journals / bulletins / conference proceedings released by them.
- Around three lakhs copies of a popular book authored by a faculty have been sold so far.

*** Consultancy**

- There has been marked increase in the number of consultancies provided by the faculty and the institutions in terms of academics, research and health care services.

- In last five years, Rs. 24,78,95609.90/- has been generated through consultancy services.
- Consultancy services have benefited all the stakeholders. It has enhanced exposure, knowledge and skill of students and faculty. It has also helped faculty in terms of development of expertise, experience and revenue.

* **Extension**

- Apart from 4244 health camps, several rallies and other health care programmes have been conducted in last four years.
- The KLE Health Insurance Scheme acts as a catalyst to develop institution community network. The members of the scheme get health care services in KLE Dr. Prabhakar Kore Hospital and its sister institutions at low cost premium. The hospital is also recognized for Government health care insurance schemes like Yashaswini, Balasanjeevini, Arogya Bhagya, Vajapayee Arogyashree, etc.
- Linkages with Government of Karnataka, Maharashtra and Goa for various health schemes has increased extension activities.
- Linkages provided opportunities to carry out joint ventures of health awareness programmes, various workshops, conferences and extension activities like health camps.

* **Student placement**

- The students are sensitized to national and social issues through organizations of various programmes.
- The job opportunities in industrial/research institution and other public sectors are provided. Linkages with pharma Companies provide opportunity for increase in number of campus interviews and augments the placement of students in industries and academics.
- Student's credibility is enhanced by participating in the research projects undertaken in association with national and international linkages.
- Linkages for research projects have helped the research scholars in placement as faculty.
- Internship of MPH students has helped in placement of students in same organizations.

* **Any other (specify)**

- Community-oriented services and programs have been emphasized.
- Linkages have helped in students' support and progression by providing them opportunities for learning, skill enhancement, research and job placement.

3.7.3 Has the institution signed MoUs or filed patents with institutions of national / international importance / other universities / industries / corporate houses etc.? If yes, how have they enhanced the research and development activities of the institution?

Yes

Initiation :

University had 33 MoU's in 2010 and at present there are **120 MoU's and 180 collaborations** with international, national, state Universities / Organisation / agencies. The University has been providing support and training to the faculty and students for grant writing, filing patents and collaborative research.

Sustenance:

- University has signed **120 MoUs**
International MoU's
 International Universities – 26
 International Organizations – 27

National MoU's

National Universities/Organizations -15
 State Organizations -30
 Other Organizations / Agencies -22

- University has **180 collaborations**
 - International Universities – 26
 - International Organisations – 27
 - National Universities/Organisations/Industries -127**(List of international and national Collaborations is detailed in 3.7.5)**

- University has filed around 10 patents with institutions of national / international importance/other universities/industries/corporate houses and has received 3 patents.

1. Title of invention:

A Process for Preparation of Nanocrystals of Lovastatin

No:249912

Application No: 1215/MUM/2009

2. Title of invention:

Turmeric Gel Formulation As An Adjunct To Scaling And Root Planning

Application no.4418/CHE/2013A

3. Title of invention:

Audio Tactile Performance (ATP) Technique for Training Visually Impaired Children in Oral Hygiene

Application No : 4887/CHE/2013

Docket no:24253

- The MOUs and patents have enhanced following activities in the University:-
 - Multicenter research trials
 - Training of faculty for advanced skill development
 - Improve quality of patient care
 - Enhance student progression in academic and research fronts
 - Increase in research grants
 - It has opened avenues for new academic programs
 - It has showcased intellectual property skills and scientific writing
 - It helped in recognition and revenue generation

Enhancement :

- It has lead to more than 60% of faculty participation in research activities. This has resulted in appreciable increase in number and quality of publications.
- It has increased number of funded projects by faculty and students.

- Awards and recognitions for excellence in research have been initiated by the University.
- There has been significant increase in MoUs and collaboration (2009-33: 2014- 300)
- Infrastructural facilities for research in constituent units have more than doubled.

3.7.4 Have the institution-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities ?

Yes

- The institution-industry interaction has resulted in the establishment of highly specialized laboratories and facilities in the University campus and its constituent units.
- One of the constituent college (JNMC) of University has ICMR-NCI sponsored project on HIV-HPV that has led to establishment of molecular laboratory for detection of HPV.
- Institute of Ayurveda has established Hitech **Ayurgenomics laboratory through IGIB of CSIR.**
- The University has created state-of-art Clinical Skill Laboratory that has received VGST grant of Rs.10 lakhs for training and has attracted students from other institutes.
- OSCE / OSPE laboratory has been established.
- Off campus Basic Health Science Research Center with highly sophisticated equipments and specialized software has been established at Bengaluru.
- Basic Health Science Research Center is established providing central research facility with the sophisticated instruments.
- Clinical Trials Division and Herbal and Indian Medicine Research Laboratory is established in College of Pharmacy, Belagavi.
- It has helped in the procurement/maintenance of equipment in highly specialized laboratories created through funding from different national funding agencies.

3.7.5 Give details of the collaborative activities of the institution with the following:

- * Local bodies/ community
- * State government / Central government /NGOs
- * National bodies
- * International agencies
- * Health Care Industry – Biomedical, Pharmaceutical, Herbal, Clinical Research Organization (CRO)
- * Service sector
- * Any other (specify)

Yes

The collaborative activities of the institution include, providing health care services through Public Private Partnership, conduct of free health check up camps in association with NGOs and local bodies and conduct of training and research programmes with national and international collaborations.

* Local bodies / community

- (i) Institution conducts free screening and treatment camps, rallies, awareness programs, blood donation camps, health talks, street plays, plantation, sanitation etc. in collaboration with local bodies like Lions club, Ramkrishna Ashram, NGO's, Rotary club, Inner Wheel Club, Shantai Vrudhasharam, Mahesh Foundations, Shri Vigneshwara Associates, BIRDS Association, Maheshwari Blind school, taluka, village panchayats and scientific organisations / associations.
- (ii) Arogya Bandhu Scheme for involving private medical colleges and other agencies in the management of PHCs.
- (iii) CMEs and workshops are conducted in collaboration with the city branches of the scientific organisations / associations.

* State government / Central government /NGOs

- (i) Under public-private partnership with the state government, the institution manages three primary health centers and three urban health centers. It caters to the health needs, national health programs of the government, education to health workers and community.
- (ii) The teaching hospital caters to the diverse health needs of the community through its collaboration with state government for various health schemes like Balasanjeevini, Arogya shree, Vajpayee Arogyashree, Yashaswini, etc.

- (iii) The College of Ayurveda collaborations with CSIR's Ayurgenomics Unit-Trisutra IGIB, ICMR, etc. promote research activities like funded projects, publications, faculty training programs, conferences, CMEs etc.
- (iv) Karnataka Cancer Therapy & Research Institute (KCTRIT) & VK Institute of Dental Sciences, Belagavi have collaboration.
- (v) Collaboration with Gandhicity Hitech R & D Private Limited, Victor Hospitals and Medical Services (P) LTD- Apollo Victor Hospitals and Asha Kirana Hospital, Mysore are in place.
- (vi) The teaching hospital is recognised to provide medical services by Goa State Medi-claim.
- (vii) One of the constituent units (JNMC) is recognized as Human Reproduction Research Collaboration Centre in Womens Health by ICMR.
- (viii) One of the constituent units of the University is recognized by Ministry of Health and Family Welfare under Scheme Human Resource Development for Health Research (DHR) in the subject areas of Geriatrics and Good Laboratory Practices (GLP).

* **National Bodies** – 127 (including industrial / Universities /Organizations): Collaboration with national bodies has promoted activities like faculty exchange, faculty training, research, publication of research articles and books.

1. Indian Institute of Sciences, Bengaluru
2. Gujarat Forensic Sciences University, Gandhi Nagar, Gujarat
3. Manipal University, Manipal
4. Bharathi Vidyapeeth Deemed University, Pune
5. Bengaluru University, Bengaluru
6. University of Agricultural Sciences, Dharwad
7. Dept. of Biochemistry, IISc, Bengaluru.
8. CFTRI, Mysore.
9. IICT, Hyderabad
10. Goa College of Pharmacy, Goa University, Panjim,
11. NIMHANS, Bengaluru
12. DRDO, New Delhi
13. National Chemical Laboratory, Pune
14. Public Health Foundation of India, New Delhi
15. Ministry of Health and Family Welfare, GoI, New Delhi.
16. Indian Council of Medical Research, New Delhi
17. Association of Pharmaceutical Teachers of India (APTI), Bengaluru
18. Regional Research Institute, Dept of AYUSH, Bengaluru
19. National AIDS Research Institute, ICMR, Pune

20. KLE's PC Jabin Science College, Hubballi
21. Dept. of Biotechnology, Govt. Science College, Bengaluru
22. Regional Medical Research Centre, ICMR, Belagavi
23. Sinhgad Technical Education Society's, Pune
24. PERD Centre, Ahmedabad
25. Foundation of Health Care Technologies Society, Panchkula, Harayana
26. Dept. of Engineering Physics, M.S.Ramaiah College of Engineering, Bengaluru
27. Dept. of Biotechnology, Govt. Science College, Bengaluru
28. Catholic Bishops Conference of India Society for Medical Education, Bengaluru
29. Academy for Nursing Studies & Woman Empowerment Research Studies, Hyderabad
30. GSR Institute of CM & FPS, Hyderabad, AP.
31. Br. NathPai Shikshan Sanstha, Sindudurg, Maharashtra.
32. Victor Hospitals and Medical Services (P) LTD- Apollo Victor Hospitals, Goa
33. Asha Kirana Hospital, Mysore
34. Gandhicity Hitek R & D Private Limited, Bengaluru
35. MEdRC Edu Tech Limited, Hyderabad
36. Karnataka Cancer Therapy & Research Institute, Hubballi, Karnataka
37. CSIR's Ayurgenomics Unit-Trisutra IGIB, Delhi
38. Bal Sanjeevani Scheme, GoK, Bengaluru
39. Adoption of three PHC and three UHC under public-private partnership, GoK, Bengaluru
40. RNTCP program, Bengaluru
41. Dept. of Tuberculosis & Respiratory Diseases, Bengaluru
42. Karnataka Health Promotion Trust, GoK, Bengaluru
43. ESI, Karnataka
44. Goa Mediclaim, Goa
45. Goa Shipyard, Goa
46. Mormugoa Port Trust, Goa
47. Hindalco Industries Ltd, Belagavi
48. Oerlicon Fiarfield Atlas Ltd, Shinolli, Chandgad
49. Hindustan Petroleum Corporation, Belagavi
50. Unision Health Care Pvt Ltd, Bengaluru
51. Forbes Gokak Ltd, Gokak
52. Campbell Kintwear Ltd, Belagavi
53. KPC Ltd, Belagavi
54. HESCOM, Belagavi
55. City Corporation, Belagavi
56. Airport Authority of India.
57. Central Excise & Customs Department.

58. KLE Member Health Care Scheme
59. Yashaswini Yojana, Bengaluru
60. Suvarna Aroghya Chaitanya
61. Arogya Bhagya Yojane for Karnataka Police.
62. ECHS (Bealgavi, Vijayapura & Dharwad)
63. ECHS (Goa & Sindudurg)
64. Vajpayee Arogyashree Health Scheme, GoK, Bengaluru
65. KLE Health Care Services
66. Hindustan Latex Ltdm, Kangla, Belagavi
67. Hutti Gold Mines Ltd. Hutti, Raichur
68. Power Grid Corporation of India. Dharwad
69. National Thermal Power Corporation, Belagavi
70. Nuclear Power Corporation Ltd, Kaiga
71. SPI Pharma-India Branch, Bengaluru
72. Sanofi-Synthelabo India Ltd. Goa
73. G7 SynergonPvt Limited, Bengaluru
74. Hicure Pharmaceuticals, Hubballi, Karnataka
75. Pentacare Ayur Pharma, Bengaluru
76. Green Chem Herbal extracts and formulations, Bengaluru
77. District Blindness Control Division, Belagavi
78. Dept. of Women and Child Welfare, GoK, Bengaluru
79. District Health & FW, Janani Suraksha Yojane, Belagavi
80. CGHS Scheme for retired Army Personnel, GoI, New Delhi
81. Meera Resque, Belagavi
82. Luminous – An Illuminator of Science & Humanity, Bengaluru
83. BioERA Life Sciences Pvt.Ltd, Pune
84. Okasa Pharma Ltd., Satara
85. Sanofi Aventis Ltd, Goa
86. The Himalaya Drug Company, Bengaluru
87. GetZ Pharma Research,Thane , Mumbai
88. Lincoln Pharmaceutical Ltd, Gujarat
89. Zydus Cadila Pharma, Ahmedabad
90. Spharsh Pharma, Hyderabad
91. Kusum Health Care Pvt Ltd, Alwar Rajasthan
92. Hind Pharma, Bhopal
93. Natco Pharma Limited, Hyderabad
94. Themis Medicare , Haridwar
95. Torrent Pharma Gujarat
96. Cadila Pharmaceuticals Limited Gujarat
97. Arabindo Pharma Ltd, Hyderabad
98. M S N Lab, Hyderabad
99. Glaxo Smith Kline, Nasik
100. Matrix Lab Ltd, Hyderabad
101. Glenmark Pharmaceutical, Nasik
102. Startech Lab Hyderabad

103. Macleods Pharmaceutical Ltd, Mumbai
104. Sunrise Remedies, Gandhinagar
105. Aizant Drug Solutions, Hyderabad
106. Markson Pharma Ltd, Goa
107. Chandra Lab, Hyderabad
108. Accutest Research Lab, Mumbai
109. Jubilant chemsys R&D, Noida
110. Wockhardt R&D, Aurangabad
111. Hetro Drugs Ltd, Hyderabad
112. Molecule Laboratory, Ahmedabad, Gujarat.
113. Pharma Train Kukatpally, Hyderabad
114. Aurobindo Pharma Ltd, Hyderabad.
115. Ipca laboratories Ltd, Mumbai
116. Sapience Research Lab, Bhopal, M.P
117. Bharat Parenterals Ltd, Vadodara
118. Ranbaxy Laboratories Gurgaon
119. Glenmark Generics Ltd, Goa
120. Osaka, Pharma Pvt.Ltd, Ahmedabad
121. Fortis, Bengaluru
122. Asian Heart Foundation, Bengaluru
123. SESA Football Club, Goa
124. Union Gymkhana, Sports School, Chandargi
125. VOLGA & VEGA Helmet Factory, Belagavi
126. INDALCO Factory, Belgaum
127. HLL Factory Kanagala, Belagavi

* International Agencies -53

(A) International Organizations – 27

1. National Institute for Child Health and Human Development (NICHD), Washington DC
2. National Institute of Cancer Research (NIH), Bethesda, USA
3. World Health Organization (WHO), Geneva, Switzerland
4. United States Agency International Development (USAID)
5. FOGARTY International Center, USA
6. Bill & Melinda Gates Foundation, USA
7. NORAD: Norwegian Agency for Development Corporation, USA
8. American Academy of Pediatrics, USA
9. International Atomic Energy Agency (IAEA), Vienna, Austria
10. Laerdal Foundation, USA
11. Harvest Plus Micronutrient Initiative, Canada
12. Gynuity Health Projects, New York, USA
13. Thrasher Research Fund, USA

14. PATH, Seattle, USA
15. The Children Investment Fund Foundation, USA
16. OMS Programs, New Orleans, USA
17. Gift of Life – Heart surgeries in children, USA
18. Smile Train, USA – More than 4000 cases of Cleft left / Palate - Operated, USA
19. March of Dimes – Perinatal Project, USA
20. International Diabetes Foundation, Australia
21. Karolinska Institute, Sweden
22. Board of Trustees, University of Illinois, USA
23. National Institute of Allergy and Infectious Diseases, NIH, USA
24. Rega Institute for Medical Research, Belgium
25. The Marien Hospital, Stuttgart, Germany
26. National Institute of Neurological Disorders & Stroke, USA
27. NIH, USA Oncogrid, Boston, USA

(B) International Universities – 26

1. University of Illinois at Chicago, USA
2. University of Missouri at Kansas City, USA
3. Research Triangle Institute, North Carolina, USA
4. Christiana Care Health Services, Delaware, USA
5. University of Alabama at Birmingham, USA
6. Vanderbilt University, Nashville, USA
7. University of Colorado, Denver, USA
8. John Hopkins University, USA
9. Harvard School of Public Health, Boston, USA
10. University of Calgary, USA
11. Michigan University, Michigan, USA
12. University of California, San Francisco, USA
13. University of British Columbia, Canada
14. Rhodes University, South Africa
15. Robert Gordon University, United Kingdom
16. Clinique Du Docteur Jean Caussee, France
17. Premier International University Perak (PIUP) Malaysia
18. University of Missouri, Columbia, USA
19. International University Phnompenhthmey, Phnom Penh, Cambodia.
20. Copper Belt University, Kitwe-Zambia
21. University of Manitoba, Canada
22. University of East Anglia, Norwich, UK
23. University Degli Studi Di Cagliari, Italy
24. University of Mississippi, USA
25. University of Southern Nevada, USA
26. University of Vancouver, Canada

* **Health Care Industry – Biomedical, Pharmaceutical, Herbal, Clinical Research Organization (CRO)**

- Collaboration with healthcare industries has promoted activities like student's training, increased number of research projects, job opportunities etc.
- Arogya Bandhu Scheme involving private medical colleges and other agencies in the management of PHCs.
- The institution has collaborative activities with State government of Karnataka for various health schemes like, Balsanjeevini, Vajpayee Arogyashree, and Suvarna Arogya Chaitanya.
- The institution has collaborations with pharmaceutical industry and various other agencies.

* **Service sector**

- This involves education and training of health professionals, regulation and management of health service delivery system.
- Provides preventive, curative, rehabilitative, nutritive and palliative care through hospital activities and health care services.
- The other human health activities involve services of nurses, midwives, physiotherapists and scientific or diagnostic laboratories, residential health facilities, or other allied health professions.
- Free meals (Annapurna Scheme) in the hospital.

* **Any other (specify)**

- Collaborations with benchmark University and research organizations at national level.
- Every year budgetary provision for research has increased by 15 %.
- Increase in collaborations with various institutes from local to international level. Increase in PPP with Government of Karnataka.

3.7.6. Give details of the activities of the institution under public-private partnership

Initiation : The University has public-private partnership with Government agencies.

Sustenance:

The University alongwith three primary health centers, now caters to three urban health centers. Three urban health centers of State through Public Private Partnership are located at:

1. Ashoknagar UHC, Belagavi
 2. Rukmini Nagar UHC, Belagavi
 3. Ram Nagar UHC, Belagavi
- Three PHCs cover population of 1,10,000 and three urban health centres cater to 1,00,000 population. These are the beneficiaries of extension activities in terms of promotive, preventive, curative and rehabilitative health services.
 - The Institution has collaboration with ECHS at Belagavi, Goa and ESI for various treatment modalities. Under PPP, KLE Hospital implements Government sponsored schemes (**Yeshaswini, Balsanjiveeni, Vajpayee Arogya Shree, Arogya Bhagya**).
 - Day care psychiatry center funded by Government of Karnataka, under Public-Private Partnership has been established.
 - PPP with Government of Karnataka for treatment of disability induced by leprosy.
 - The Institutes conduct activities like rallies, awareness programs, health talks, street plays, observes World Health Days like, World Heart Day, World Disability Day, etc. free health check-up camps, health education on nutrition and sanitation in association with the primary health centers and urban health centers.

The collaboration with the state Government in the form of Public Private. Partnership has been beneficial to the students. They are exposed to rural conditions, and develop empathy and community service orientation during their posting to the PHCs.

Sl No.	Particulars	PHC Kinaye				PHC Vantamuri				PHC Handiganur				UHC Ashok Nagar		
		2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2012	2013	2014
1	Population covered	58059	59352	66069	66716	34642	35182	35781	37040	26057	26944	27902	28576	29035	31733	32144
2	No. of Sub-Centres	9	9	9	9	5	5	5	5	4	4	4	4	--	--	--
3	No. of Villages	27	27	27	27	17	17	17	17	16	16	16	16	--	--	--
4	% of infants fully immunized	98	100	100	96	98.7	100	100	98	97	96	98	97	85	90	100
5	% of ANC registered within 12 weeks	93	94	94	96	82	86.4	98	99	80	70	76	80	82	96.3	91
6	% of Pregnant women with 3 antenatal check-ups	98	100	100	95	97	98.4	98.5	98.7	100	100	100	100	85	93.8	100
7	% of deliveries conducted by trained persons	98	98.75	99	88	100	100	100	100	100	100	100	100	--	--	100
8	Birth rate (per 1000 Population)	19.50	19.60	19.50	19	22	21.8	19.8	21	20	20	20	19	19	18	18
9	Death rate (per 1000 Population)	6	7	6	6	6.7	6.4	6.4	6.2	6	6	6	6	8.5	8.5	7
10	IMR (Per 1000 live births)	10	15	15	7	19	18	18	1.28	14	14	13.7	12.4	38	17	9
11	MMR (Per 1000 live births)	0	0.01	0.01	0.8	1.5	1.5	1.5	0	0	0	0	0	--	--	0
12	CPR (%)	62	63	65	67	61.5	63.3	64.68	65	64.6	65	65.82	66	49	52	70

Enhancement :

- The Public-Private Partnership has been enhanced. The community research is conducted in 90 PHCs in the district areas of Belagavi, Vijayapura and Bagalkot covering 335 sub-centers, 827 villages which covers overall population of around 18,83,445 including 4 medical hospitals, 10 taluka hospitals, 94 private hospitals, 37 private clinics and 4266 physicians, ANMs, TBAs, ASHA and nurses.
- Maternal mortality rate, perinatal mortality rate, neonatal mortality rate, crude death rate, crude birth rate of the district have declined in last five years after the adoption of PHC/UHCs.
- General awareness in the population about the health and disease has increased.
- Out patient attendance at the PHCs has shown progressive improvement.
- Targets set for the year are achieved fully with regard to national health programmes like Family Welfare, Revised National Tuberculosis Control Programme, National Vector Borne Diseases Control Programme, etc. Antenatal, intranatal, and postnatal care have improved.
- The referral to tertiary health care centers have increased.

Any other information regarding Research, Consultancy and Extension, which the institution would like to include.

- Recognition of all post-graduate departments for research leading to award of Ph.D. degree.
- 50% concession in Tuition fees for in-service teachers.
- KLEU Research foundation is recognized as one of the leading global network sites.
- Regular basic classes are conducted for Ph.D research scholars.
- Course on Bio-ethics is started which is mandatory for research scholars.
- Excellent infrastructure available in KLE Dr. Prabhakar Kore Basic Health Science Research Center for bio-chemical, micro-biological, pharmaceutical and analytical research.
- Organization of workshop on Research Methodology on regular basis.
- Off-campus research facility.

Publications and Research Grants

- There are **2750** research articles published by the faculty in national and international journals. The range of impact factor of these publication is **54.42 – 0**.(average 0.67).
- Research outlay by way of National and International funding agencies is **Rs. 32.82**. crores in last five years.

Collaborations

- There are around 180 collaborations with benchmark Universities, research organizations, industries, corporate houses, etc. at international and national level.
- The University runs 3 primary health centers, 3 urban health centers, Psychiatry Day Care Center, National Tuberculosis Control Programme, National Vector Borne Diseases Control Programme, ECHS and ESI of the State of Karnataka through public private partnership.

Extension Activities

- Extension activities are conducted regularly through all constituent units and NSS Units.
- Collaborations with NGOs and GOs for extension activities.
- Organisation of health related awareness programmes like AIDS, diabetes, eye donation, osteoporosis, etc. General health check-up camps for school children, senior citizens, ex-army jawans and commercial sex workers.

CRITERION IV

INFRASTRUCTURE AND LEARNING RESOURCES



CRITERION IV:**INFRASTRUCTURE AND LEARNING RESOURCES****4.1 Physical Facilities****4.1.1 How does the institution plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization ?****Initiation:**

- The campus is meticulously planned and all buildings are constructed to provide all the basic amenities that are required for effective teaching- learning process, health care and research.
- The University has on campus and off-campus facilities.

On campus (100 acres) :

- Infrastructure available :
 - University Building – 2,777 Sq.mts.
 - J. N. Medical College, Belagavi -22,412 Sq.mts.
 - Teaching Hospital -1,19,565.22 Sq.mts.
 - KLE VK Institute of Dental Sciences, Belagavi – 13,366 Sq.mts.
 - KLE Institute of Nursing Sciences, Belagavi - 4,104 Sq.mts.
 - KLE Institute of Physiotherapy, Belagavi -4,650 Sq.mts.
 - KLE College of Pharmacy, Belagavi -5,356 Sq.mts.
 - School of Music, Belagavi – 537.83 Sq.mts
 - Guest houses, quarters for teaching and nonteaching staff- 24,693 Sq. mts.
 - Hostels for undergraduates, interns, postgraduates and residents - 59,797 Sq.mts.
 - Gardens with lawns with musical fountain- 1,133 Sq. mts.
 - Auditorium, Play ground, indoor sports complex, food courts and buildings for other ancillary services- 4,976 Sq.mts.
 - Swimming pool – 3,252.79 Sq.mts.
 - Convention center – 11,617.10 Sq.mts.
 - Venu Dhvani Community Radio Station-95.26 Sq.mts.
 - Library complex- 6160 Sq. mts.

- Administrative building for the University is fully furnished with separate secretariats for the Vice-Chancellor, Registrar, Finance Officer and Controller of Examinations. Appropriate space is provided for Academic, General Administration, Finance and Examination Divisions. Air-conditioned meeting rooms for the Board of Management and Academic Council are also provided.
- Continuous and uninterrupted water and electricity supply is provided to the entire campus.

Off Campus:

- KLE University's Sri B. M. Kankanawadi Ayurveda Mahavidyalaya, Belagavi- 20,834.15 Sq. mts.
- KLE University's College of Pharmacy, Hubballi – 4,964.10 Sq. mts.
- KLE University's College of Pharmacy, Bengaluru – 5,418.16 Sq. mts.
- 22 acres of medicinal plants garden at Narsingpur
- Ayurveda Drug Manufacturing unit at Khasbag, Belagavi
- Guest houses and quarters for teaching and non-teaching staff : 518.54 Sq.mts
- Hostels for undergraduates, interns, postgraduates and residents
- The infrastructure facilities are optimally utilized for administration, academic activities, health care services, co-curricular and extra-curricular activities and for accommodation to students, teaching and non-teaching staff.
- The various committees appointed by the University and respective Institutes monitor the optimal utilization of the infrastructure.

Sustenance :

- Every year care is taken to see that adequate budget is allocated for infrastructure development and maintenance.
- There has been an increase in the number of beds in multispeciality teaching hospital to 2200.
- State of Art Ayurveda hospital (281 bed) and college, two Pharmacy colleges and eight hostels off campus.
- All classrooms, lecture theaters and laboratories are well furnished with comfortable seating arrangement and provision for audio-visual teaching aids such as projector, laptop and screens.
- The entire campus is provided with generator backup.

- Around 16 buses are available for transportation of the students, staff and patients. 24 hours ambulance service for the emergency and serious patients is also made available.

Enhancement :

- The University is a proud owner of International standard swimming pool measuring 3,252.79 Sq.mts .The faculty and students can use the facility of the swimming pool which also has an experienced coach.
- An international standard 11,617.10 Sq.mts centrally air-conditioned Convention Center with 1200, 600, 300 and 150 seating capacity halls, food court facility and provision for trade exhibition.
- Establishment of two Basic Science Research Centers, one in campus and one off campus with scientist available in Microbiology, Analytical and Pharmaceutical fields have greatly added to the research component of the University.
- Enhanced facilities of ICU, modular Operation Theatre, Kidney transplant Unit, State of Art burns ward and Psychiatric Day care center.
- Expansion of boys hostel facility on campus.
- Expansion of boys hostel, PG block, teaching hospital and addition of new girls hostel at Ayurveda Campus.
- Addition of athletic track at College of Ayurveda.
- Establishment of Clinical Skill Laboratory at teaching hospital.
- Establishment of separate infrastructure facility for Department of Hospital Administration.

4.1.2 Does the institution have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.**Yes**

The Sponsoring Society and the University always give emphasis on up-gradation/augmentation and creation of existing and new infrastructural facilities and learning resources to keep pace with academic growth. So far, **Rs.110 Crores** has been spent on creating and augmenting the infrastructural facilities in the last 4 years.

- The Institution has sufficient budgetary allocation for improving infrastructure facilities and upgrading the existing facilities in order to promote a good teaching-learning environment.
- Convention Center of international standard with expenditure of Rs. 30 crores is added.
- Basic Science Research Center (10,000 Sq.ft.) with microbiology, bio-chemical and analytical research facilities has been set up at a cost of Rs. 10 crores.
- Separate building has been provided for Institute of Nursing Sciences, Institute of Physiotherapy and Pharmacy College at the cost of Rs. 25 Crores.
- Spacious library in Ayurveda College with digital library section and seating capacity of 216 has been developed with a cost of Rs. 6 crores.
- All departments of medical sciences are renovated with newer aids and equipments and space for laboratories with a cost of Rs. 6 crores.
- Institutional Repository and KIOSK facilities are available in the central library for the benefit of faculty and students.
- Air-conditioned and CCTV facilities are available in the library. The CCTV facility is also provided in the campus and hospital.
- Two new gallery halls with a seating capacity of 500 and 240 each have been constructed in the medical college building.
- New hostel for girls has been constructed with the expenditure of Rs. 10 crores. There are in all five girls hostels in the campus.
- Golden Jubilee block - Suvarna JNMC ward of 240 beds has been established in the hospital with expenditure of Rs. 15 crores.
- Three additional class rooms at School of Music have been constructed at a cost of Rs. 2 crores.
- **In the last 4 years, infrastructure worth Rs 40.136 crores and sophisticated equipments worth Rs 17.94 crores has been added.**

4.1.3 Has the institution provided all its departments with facilities like office room, common room and separate rest rooms for women students and staff?

Yes

As a responsible institution of higher education, the University has ensured and taken care to create an environment where female students, faculty and staff feel safe to learn, work and live.

- The University has provided office room, separate common room for women in all the constituent colleges of the University and Hospital. There are separate dining and wash rooms for men, women students and the faculty. Separate staff is appointed to maintain these common and wash rooms.
- 24x7 helpline for girl students is available.
- Additional facility of vehicle pick up and drop for the girl students from bus stand and railway station is provided especially after 7 PM.
- A pickup vehicle from main entrance to the respective hostels is arranged.
- CCTV in the campus and hospital ensures safety of girl students and lady staff.

4.1.4 How does the institution ensure that the infrastructure facilities are barrier free for providing easy access to college and hospital for the differently-abled persons

- The University has an eco-friendly, vehicle free campus with battery operated vehicles for easy access of differently-abled persons to the college and hospitals.
- Lifts, ramps and wheel chair facilities are available in all the buildings of the University.
- Lift operators (women) and security personnel are always available to take care of differently-abled person for their easy accessibility in the campus.
- Separate wash rooms are provided for differently-abled persons.

4.1.5 What special Facilities are available on campus to promote students' interest in sports and cultural events/activities?

Sports

- The swimming pool of international standard is available with coaching facility.
- Sports complex provides indoor and outdoor games facilities.
- Indoor facilities are provided for Table Tennis, Shuttle Badminton, Carom Board, Chess, and gymnasium.
- Separate gymnasium is provided in boys and girls hostels with coaching facility.

- Outdoor facilities include cricket ground, football grounds, 400 mts. running synthetic track, volleyball, basket ball and tennis courts, etc.
- Martial arts training facility is available at the indoor stadium.
- Regular conduct of ‘Humbo’ – a University sports meet held annually provides scope for development of sports and sportsmanship in the students.

Co-curricular Activities

- International standard Convention Center with capacity of 2250 seats is ready for use for both academic and cultural activities.
- An air-conditioned auditorium with seating capacity of 1200 provides opportunity to the students for cultural activities.
- A separate school of music caters to the needs of the students and staff.
- Yoga Centre with trainers, places of worship on the campus provides spiritual inputs to the students and the teachers.
- Through the NSS Unit of the University, special coach is appointed to train students in athletics and group games. A lady instructor is appointed for Judo training for girl students in self defense.
- Regular conduct of ‘Trinity’ – an Inter-University cultural & literary meet held once in 2 years provides scope for cultural development and cultural exchange amongst the students.
- The students are encouraged to participate in Adventure Camps arranged by Government of India through the NSS unit.
- The University has promoted participation of students from all the constituent units in “Indian Students Parliament”.
- Kannada Balaga Association of University organizes and conducts cultural and literary activities
- Apart from the University events, the constituent units conduct annual sports and cultural events including celebration of festivals such as, Navratri, Ganesh Chaturthi, Ugadi, Onam, Holi, etc.
- Celebration of National Days such as Independence Day, Republic Day, International Non-violence Day, etc to promote the patriotic spirit among the students and staff.
- Popular national leaders, spiritual leaders, sports, cultural & cine celebrities are invited regularly to inspire the students.
- Participation of students in Radio talks and music programmes through ‘Venu-Dhwani’- an in-house radio station.
- Recreation room is available in every constituent unit and hostel.

4.1.6 What measures does the institution take to ensure campus safety and security?

Initiation:

Right from its inception the University campus is protected with limited access through securely guarded entrances. This has safeguarded the campus from all sorts of risks to property and personnel.

Sustenance:

- The University campus has CCTV cameras in main gate, college buildings, hostels and library.
- Security guards are positioned at all the main gates and important areas of all the constituent units.
- Students and faculty are provided with ID cards. The entry to the campus is based on identity cards.
- Mobile telephone numbers of faculty members staying in staff quarters are registered with the security personnel.
- Fire extinguishers and smoke detectors are located at all important areas in the campus.
- Uniforms with identity cards are provided to all class IV workers to ensure their identity in the campus, especially in hostels to ensure safety of students.
- Attendance is taken in the hostels by wardens. Written application with permission from mentor and warden in-charge is mandatory for the movement of girl students from hostel after stipulated hours.
- In- campus vehicles are provided with passes for secure entry.
- Microbiological assessment of water sample for its potability in the hostels and college is done regularly.
- Health check up of cooks, assistants in the mess and other workers in hostel is done regularly.

Enhancement :

- Provision of Health Insurance Scheme “Vaidyashree” for staff and students.
- Active empowerment cell for women caters to grievances and abuse against women.
- 24x7 helpline for girl students is in place.
- Student counselor is appointed to address personal and academic problems.

- The girl students are provided transport facility by the University to and fro bus station and railway stations from the hostel for their safety.
- Battery operated car facility is provided for benefit of students for transport from main entrance to hostel in addition to college hours.(Early morning and late evening)
- 24x7 ambulance services provided.
- 24x7 uninterrupted power supply is ensured in the campus.

4.1.7 Facility of Animal House

- * **Is animal house maintained as per CPCSEA guidelines ?**
- * **Whether records of animal house are maintained for learning and research activities ?**
- * **Does the animal house have approval for breeding and selling experimental animals as per CPCSEA guidelines ?**

Yes

- Well maintained animal houses as per CPCSEA guidelines (proper temperature control, regular checkup by veterinary doctor, waste disposal) are in use since inception and these are being used for learning and research activities.
- Well trained personnel are employed for maintenance of animal houses.
- There are five animal houses in the constituent units

Sl. No.	Name of the College	Registration No.
1	J.N. Medical College, Belagavi (305 Sq. mts)	Reg. No. 627/02/a/CPCSEA dated 19 th June 2002
2	KLE College of Pharmacy, Belagavi (88 Sq.mts.)	Reg.No. : 1027/a/07/CPCSEA dated 16 th June 2012 to 15 th June 2015
3	KLE Sri BMK Ayurveda Mahavidyalaya, Belagavi (271.84 Sq. mts)	Reg. No. 1017/c/06/CPCSEA dated 19 th December 2006
4	KLE College of Pharmacy, Hubballi (105.32 Sq. mts)	Reg. No. 126/1999/CPCSEA dated 29/06/1999
5	KLE College of Pharmacy, Bengaluru (74.43 Sq. mts)	Reg. No. 626/02/a/CPCSEA dated 19/06/2002

- JNMC Animal House is licensed for breeding of animals
- The number has increased from 3 to 5 maintaining the standard norms and as per the current guidelines it is being used for research.
- All animal houses are provided with air filters.
- Proper waste disposal norms followed at all the animal houses.
- Quarantine facilities are in place.
- Standard protective measures are followed for all the staff members of animal houses.
- Experimental animals like mice, guinea pigs, rabbits, albino rats, and sheep are available. The animal houses are duly registered with CPCSEA. A qualified veterinary doctor looks after the animal house.

4.1.8 Provide the following details on the use of laboratories / museums as learning resources:

- * **Number**
- * **Maintenance and up-gradation**
- * **Descriptive catalogues in museums**
- * **Usage of the above by the UG/PG students**
- The museums have been providing useful information and have been helping to educate the students and public.
- The museums and laboratories depict the epidemiological changes of the diseases, evolving investigations, equipments and materials. The laboratories which are used for teaching learning purpose meet the standard guidelines set by the apex bodies.
- * **Number:** A total of **149** laboratories and **48** museums in all constituent units including the well-known pathology museum with standard guidelines and catalogues.
- * **Maintenance and up-gradation:**
 - Regular maintenance and up-gradation of laboratories and museums is done.
 - Calibration of equipments is undertaken regularly.
 - New specimens are added.
 - Labeling and computerized typing.
 - Display with illumination wherever required.
 - These museums and laboratories are well maintained by curators of the respective departments.

- The Pharmacy museums cover various aspects of Pharmacy history including traditional dispensing, equipments, drug storage container, photo-archive. They also display themes evolving Lambeth's pharmacy.
- The museum of Anaesthesiology depicts the evolution of Anesthesia science.

*** Descriptive catalogues in museums:**

- Descriptive catalogues are provided in the museums which furnish the detailed information of the specimen / equipment / object and its method of use.

*** Usage of the above by the UG/PG students:**

- Museums are one of the learning resources for the students which enable them not only to acquire knowledge, but also for visual impressions. All laboratories are used by the students for practical hands-on and clinical purposes.

Total number of Laboratories and Museums in constituent units

Colleges	Number of Laboratories	Number of Museums
J.N.Medical College, Belagavi	65	28
VK Institute of Dental Science, Belagavi	05	04
BMK Ayurveda Mahavidhayala, Belagavi	09	07
College of Pharmacy Belagavi	21	01
College of Pharmacy Hubballi	22	01
College of Pharmacy Bengaluru	14	03
KLEU Institute of Nursing Science, Belagavi	06	01
KLEU Institute of Physiotherapy, Belagavi	05	01
Basic Science Research Center - Belagavi	01	1
Basic Science Research Center - Bengaluru	01	1
Total	149	48

- The hospital laboratory has been accredited by NABL.
- The nationally acclaimed Clinical Skill Laboratory is established at the hospital which provides hands-on training with the simulators.
- SOP's for all equipments and procedures are available.
- OSCE and OSPE laboratories are periodically updated.
- Two Basic Science Research Centres have been established with international standard guidelines. Qualified & experienced scientists are employed.

4.1.9 Dentistry

The facilities provided are as follows:

*** Total Dental chairs –356**

*** Dental Chairs in clinic- speciality wise:**

- Department of Oral Medicine and Radiology – 25
- Department of Oral Pathology – 02
- Department of Public Health Dentistry – 25
- Department of Conservative Dentistry and Endodontics – 58
- Department of Pedodontics – 38
- Department of Prosthodontics – 68
- Department of Oral Surgery – 50
- Department of Orthodontics – 40
- Department of Periodontics – 50

*** Schedule of chair side teaching in clinics – specialty wise**

- Department of Oral Medicine and Radiology – 170 hrs
- Department of Oral Pathology – 170 hrs
- Department of Public Health Dentistry – 170 hrs
- Department of Conservative Dentistry and Endodontic – 370 hrs
- Department of Pedodontics – 180 hrs
- Department of Prosthodontics – 370 hrs
- Department of Oral Surgery – 270 hrs
- Department of Orthodontics – 240 hrs
- Department of Periodontics – 200 hrs

*** Number of procedures in clinics per month and year**

The details of procedures in clinics per month and year are as below:

Sl. No.	Name of the Department	Details
1.	OMDR	Radiographs : 1163/month ; 13956/year
2.	Public Health Dentistry	Preventive procedures : 80 /month ; 840 / year Restorations, extractions and health education : 960/month ; 10,430/year
3.	Prosthodontics	Average 32 complete dentures/ month ; 384/year Average 10 removal partial dentures/month ; 110/ year 39 fixed partial dentures/ month ; 480/ year 1 implant/month ; 15/year
4.	Oral Pathology	110/month, 1320/ year Biopsy : 36/ month ; 450/ year
5.	Oral Surgery	750 Extractions/month 9360 minor surgical procedures/year
6.	Pedodontics	Extraction : 213/ month ; 2560/ year Glass inomer cement filling:141/month;1690/year Miracle mix fillings : 9 / month ; 109 / year Silver amalgam fillings : 38 / month ; 456 / year Scaling : 73 / month ; 871 / year Pulp therapy : 56 / month ; 478 / year Space maintainers : 5 / month ; 55 / year Composite fillings : 5 / month ; 64 / year Fit and fissure sealants : 5 / month ; 59 / year Surgical procedures : 1 / month ; 14 / year Crowns given 250 / year Trauma Care 50 / year Special health care needs 40 / year Post and core 10 / year
7.	Conservative	RCT : 266/ month ; 3192 / year Crown ; 40 / month ; 480 / year Composite : 195 / Month ; 2340 / year SAF : 33 / month ; 396 / year GIC : 21 / month ; 252 / year IPC : 7 / month ; 84 / year BCH : 3 / month ; 36 / year Inlay : 12 / month ; 144 / year IRM : 2 / month ; 24 / year Other cases : 13 / month ; 156 / year
8.	Orthodontics	New : 30 patients / month ; 360 patients /year Old : 600 patients / month
9.	Periodontics	Surgical procedures : 25/ month ; 800 /year Non surgical : 330/month ; 390 / year

- * **Mobile dental care units – 02**
- * **Facilities for dental and maxillofacial procedures**

Yes

Major operation theatre is in the hospital and minor operation theatre is in the dental college.

- * **Dental laboratories – 13**

- The infrastructure including equipments provided at this constituent unit is more than the requirement stipulated by the regulatory body (DCI).
- The state-of-the-art technology is used for diagnostic, preventive, promotive, curative and rehabilitative oral health care.
- The institute caters, not only to urban population but also, to the rural population through its two mobile dental clinics and services. Dental health check-up camps are conducted regularly for community including schools.
- The quality and quantity of infrastructure including equipments with dedicated faculty has made this constituent unit **one amongst the top institutes of the country.**

4.1.10 Pharmacy

- * **Pharmaceutical Science Laboratories**
- * **Museum for drug formulations**
- * **Machine room**
- * **Herbarium / crude drug museum**
- * **Balance room**
- * **Chemical store**
- * **Instrumentation facilities**
- * **Pilot plant**
- * **Computer aided laboratory**

The advancements in drug development, pharmacokinetics and pharmacodynamics including drug delivery systems have made this science an emerging arena in health care. The University has three colleges of Pharmacy in different parts of the state.

- * **Pharmaceutical Science Laboratories – Yes** (Total no.-57)

* **Museum for drug formulations – Yes** (one in each college)

All the Pharmacy institutions have meticulously collected pharmacy items from every part of India. The museums contain collection of specimen bottles, original drug container, books, store fixtures and artifacts. The pharmacy museums cover various aspects of pharmacy history including traditional dispensing, equipments, drug storage container, photo-archive. They also display themes evolving from Lambeth's pharmacy.

* **Machine room – Yes** (one in each college)

The machine rooms are spacious with machines generally encountered in pharmaceutical industry like Pan coater, Hand operated single punch machine, All purpose equipment, Dissolution rate test apparatus (I.P Standard), Disintegration rate test apparatus (U.S.P. standard), Ampoule filling and sealing machine, Bottle filling machine, Mechanical and Gyrotory sieve shaker, Filter press, Reynolds apparatus, Venturimeter, Orifice meter, Vacuum-filter unit, Friability test apparatus, Humidity chamber, Capsule filling machine, Mechanical ointment filling machine etc. This provides a window for young and aspiring pharmacist to be well versed with the current pharmaceutical scenario.

* **Herbarium / crude drug museum – Yes** (one in each college)

The pharmacy colleges of University have Herbarium/crude drug museum housing economically important raw materials of plant, animal and mineral origin from India at one place to cater to the needs of students and the public at large. The Herbariums houses over 200 specimens of economic and medicinal plants of India and the Museum comprises over 300 samples of crude-drugs, animal and mineral specimens.

* **Balance room – Yes** (one in each college)

The balance rooms comprise single and double pan, digital balance having different sensitivity and capacity of weighing.

* **Chemical store – Yes** (one in each Pharmacy college)

Central Stores and Sub-central stores in the pharmacy colleges maintain an inventory that includes a wide variety of chemicals, scientific apparatus and equipments. Chemical Stores have catalogues from a wide group of chemical and scientific supply vendors.

* **Instrumentation facilities – Yes** (one in each college)

The Central Instrumentation facility equipped with high value sophisticated instruments, have been created in order to cater to the needs of students of all the departments for maximum utilization of instruments. The facilities are extensively used by post-graduate students and doctoral research scholars. This facility is also extended to external agencies, mainly academic institutions of the region on nominal charge basis. HPLC, Fourier Transform-IR, Spectrophotometer, Spectrofluorophotometer, Double beam UV-Visible Spectrophotometer, Brookfield's viscometer, Nephelo/Turbidimeter, Polarimeter, pH meter, Conductivity meter, Potentiometer, I.R. Moisture Balance, sonicator, digital balance and Electronic Single Pan Balance etc are the instruments available.

* **Pilot plant – Yes** (one in each college)

Pharmaceutical pilot plant is a valuable resource for ensuring efficient process scale-up. The teaching pilot plant is designed for processing flexibility with an emphasis on product specialization. The facilities are used for teaching, research and industry projects.

* **Computer aided laboratory– Yes** (one in each college)

Computer aided laboratory facility (CADD Software) is made available for students and staff, which provides teaching assistance in drug designing to students.

Apart from pharmacy institutions, the University also has basic science research centers which have facility of pharmaceutical analysis with high grade instruments like PCR, HPLC, UPLC, atomic absorption spectroscopy, USP dissolution apparatus and diffusion cell apparatus.

4.1.11 Yoga and Naturopathy – Not Applicable

4.1.12 Homoeopathy- Not applicable

4.1.13 Nursing

Nursing Foundation Laboratory

Advance Nursing Laboratory

Community Health Nursing Laboratory

Midwifery and Obstetrical Laboratory

Child Health Nursing Laboratory

Nutrition Laboratory**Pre clinical Laboratories****Specimens, Models and Mannequins**

General Nursing and Midwife Course B.Sc. Nursing, Post Basic B.Sc. Nursing, Postgraduate and Postdoctoral degrees are offered to meet the need of the nursing services from primary to tertiary care. The following facilities are made available.

* Nursing Foundation Laboratory	– Yes (01)
* Advance Nursing Laboratory	– Yes (02)
* Community Health Nursing Laboratory	– Yes (01)
* Midwifery and Obstetrical Laboratory	– Yes (01)
* Child Health Nursing Laboratory	– Yes (01)
* Nutrition Laboratory	– Yes (01)
* Pre clinical Laboratories	– Yes (01)
* Specimens, Models and Mannequins	– Yes (35)

- Institute of Nursing Sciences, Belagavi, has signed a MoU with University of East Anglia, UK and has availed the research grants of Rs. 41,76,891 (£40,446) through UKIERI (UK-India Education & Research Initiative) awards under the Strand 3 : Skills Development : Institutional Capacity Building for “Enhancing Midwifery & Neonatal Care through capacity building of midwifery lectures”.

4.1.14 Ayurveda

- The humble beginning of Institute of Ayurveda was made in the year 1933. The Institute started with the vision to build a center of global excellence in Ayurvedic education, training and research. The following facilities are made available.

Herbal Gardens – 02 (23.5 acres)

The institute has herbal gardens one situated within the campus (1.5 acres) and another one at Narasingpur (22 acres) 20 kms from the Institute.

Museum Herbarium – 01

This is a systematic collection of dried plants from different parts of the country. It also has well written notes on the ecology of every plant. The collection serves the purpose of teaching and research.

The Institute has 7 museums

1. Central Museum
2. Osteology museum (Based on Ayurvedic classification of bones)
3. Dravyaguna (Medicinal plants) museum
4. Rasashastra museum
5. Swasthavritta and Yoga museum (Community Medicine)
6. Agadatantra museum (Toxicology)
7. Shalya tantra museum (General Surgery)

Panchakarma Facility

The state-of-art Panchakarma facilities are provided. This has helped many to lead a healthy life style. The Panchakarma facility for the patients at the hospital is managed in four different units with a total of 27 rooms.

1. Deluxe rooms on the 1st floor of the hospital have 4 well-furnished Panchakarma theatres attached.
2. Regular Panchakarma unit of 8 rooms serves as outpatient and semi-special wards.
3. Economical Panchakarma Unit has 12 rooms which serves the general ward and free ward patients of the hospital.
4. Special Panchakarma Unit has 2 rooms.

Eye Exercises Clinic – 01

The hospital has a special set up for eye exercises. There is also a special unit for therapeutic procedures of eye treatment “KANKAYANA”, an innovation of KLE Ayurveda Hospital. Special procedure of eye treatment like Tarpana, Ashchottana, Shiro-virechana, Anjana etc. procedures are carried out at Kankayana.

Kshara Sutra and Agni Karma Setup

The patients for Kshara Sutra and Agni Karma are managed at minor operation theater in the operation theatre complex of the hospital.

Ayurveda Pharmacy – 01

The KLE Ayurved Pharmacy is a GMP certified manufacturing unit. The pharmacy has well-equipped quality control laboratory. It manufactures around 269 classical and 9 proprietary medicines and 2 food preparations.

4.1.15 Does the institution have the following facilities ? If so, indicate its special features, if any.

- * **Meditation Hall**
- * **Naturopathy blocks**

Yes

- * **Meditation Hall** – One in Ayurvedic college and one at teaching hospital
- * **Naturopathy blocks** – One in Ayurvedic college

4.1.16 Provide details of sophisticated equipments procured during the last four years.

List of sophisticated equipments procured in the constituent units during the last four years.

1. Jawaharlal Nehru Medical College, Belagavi.

Sl. No	Name of the Equipments	Quantity
1.	Rhino Laryngo Fiberscope with Std Accessories	01
2.	Harizontal Rectangular Sterlizer	01
3.	Green Laser with Integral Laser Slit lamp & Occular Lense	01
4.	Appa ND Yag Laser with Lenses	01
5.	ATS 1200 Tourniquet Systems	01
6.	Pneumatic Drill System & "Synthesis: Reaming Attachment	01
7.	AMO Sovereign Compact Phacoemulsification System with Shitestar-ICE	01
8.	Ophthalmoscope Heine K-180	03
9.	Ophthalmoscope Heine Beta-200	02
10.	Surgical Diathermy Octave	04
11.	AOE Machine for ENT	01
12.	Open Care Incubator	01
	ECG Machine (BPL Make)	01
	ECG Machine (BPL Make)	01
	ECG Machine (BPL Make)	01
	ECG Machine (BPL Make)	01
	ECG Machine (BPL Make)	01
13.	GYNEAC Equipments(URO-30574X62)	
	Carl Storz Double Puncture Laproscopy Diagnostic Laproscopy Set for Gynaec	01
	Basic set of Laproscopic Surgery with Gynaec accessories	01

Sl. No	Name of the Equipments	Quantity
	Hysteroscope Operative Set	01
	Electronic CO2 Insufflator Basic set	01
	Resectoscope Set	01
	Three Chip Camera System Xenon Light Source	01
14.	G40 Integrated Patient Monitor	02
15.	Heart Start XL Defibrillator	01
16.	Heart Start XL Defibrillator	01
17.	Advanced ICU Ventilator-Esprit (URO-24800x62)	02
18.	Drager Machine- primus Anesthesia (URO-44000X62)	04
19.	Karl Storz Arthroscope Set(URO-18105X62)	01
20.	Magnum Multistar 4S' OT Table(with 4 section table top)	02
21.	Imported LED Light (MAGNALED 3E (Monile with Battery Backup	01
22.	Electro Remote Table"Mediquip Systems" without Orthopedics attachment	02
23.	OT Mobile Shadoless "MSF-4"	03
24.	OT Ceilling Shadoless Lamp Model NO. MSCF-7+4	01
25.	Debrider with Shaver Blade II Geration Latest Model Xomed Compatiable Blade Micro Debrider	01
26.	OPMI PICO Surgical Microscope for ENT Surgery	01
27.	Ceiling OT Light MSCF-4	01
28.	Ceiling OT Light Glass Reflector-19	01
29.	OT Table 5 Section S.S. Top & S.S. Covered Base	01
30.	OT Mobile Shadowless Lamp MSF-4"	01
31.	Omran Nebulizer	04
32.	M 185-Digital Hemo Globin meter	01
33.	Pusle oximeter(Comet Plus)	10
34.	Warmers	10
35.	Microscope (OPMI 1FR)	01
36.	Double Surface Photo Therapy & Standing Photo Therapy	10
37.	C-Arm Machine(Surgico 100 RF)	01
38.	C-PAP Machine	01
39.	Digital Baby Weighing Scale(2) & 3-1 Weighing Scale(1)	03
40.	X-Ray Machine	01
41.	Multipara Monitors 50N	08
42.	Multipara Monitors 55 with Etco 2	02
43.	Feotal Monitors	02
44.	Feotal Monitors	02
45.	Star-55 Multipara Monitor	03

Sl. No	Name of the Equipments	Quantity
46.	Comet Plus Pulse Oximeter (Buyback of comet P pulse Oximetre)	01
47.	Octave Diathermy(Buy Back Mastro Cautrey machine)	03
48.	Dialyses Machine	03
49.	Ophthalmology OT Tables	03
50.	OT Lights	05
51.	Syringe Pumps	10
52.	Ultra Sound Machine(HD5 Colour Doppler)	01
53.	Nebulizers	10

2. KLE VK Institute of Dental Sciences, Belagavi

Sl. No	Name of the Equipments	Quantity
1.	Kodak RVG 5100 System With Accessories	02
2.	VITA Vacuum at 40T Furnace Germany	02
3.	Midetherm 100 Controlled Wax Burnout Furnace Bego Germany	02
4.	Gelovit - 200 Microprocessor Duplicating Unit Bego Germany	03
5.	KAVO Diagnodent Germany	01
6.	X-Mind DC X-Ray Unit Satelec France	04
7.	Implanteo Implantology Motor With Physio Dispenser Anthogyr, France	02
8.	Diagnox 100MM X-RAY Machine	01
9.	Fornax-T Table Top Induction Casting Machine Bego Germany	02
10.	Front Loading Autoclave Make Melag En23 Germany	03
11.	Milling Machine Make Mariotti, Italy	02
12.	EPIC Biolase Laser made in USA	01
13.	VITA Vacuumat 6000 MP Metal Free Pressable Furnace, Germany	01

3. KLE SHRI B.M. Kankanawadi Ayurveda Mahavidyalaya, Belagavi

Sl. No	Name of the Equipments	Quantity
1.	Blue Star Freezer -80° C	01
2.	Pulse Oxy Meter	01
3.	Double Surface Photography	01
4.	Magic RXECG Machine	01
5.	Medic RSAECG Machine	01
6.	Olympus Trinocular Research Microscope	01
7.	VU- VIS Spectrophotometer	01
8.	Treadmill to Obesity	01
9.	Rat Metabolic Cage	01
10.	Cell Counter	01
11.	Auto Analiser	01
12.	Sonography	01
13.	Trinocular Microscope	01
14.	Difebrillator	01
15.	Perimeter	01
16.	Anesthesia Machine	01
17.	Multipara Media	01
18.	Dehumidifier for Ayurgenomics	01
19.	Biopac 1. ECG 2. Pulse Plathysmography 3. Galvonic skin resistance Model - Biopac MP150 with GSR, SKT, PPG, ECG	01
20.	Easyone Diagnostic Spirometer Model- EasyOne Model: 2001 SN: 108765/2012	01
21.	Cold Centrifuge Model- Thermo Fisher Scientific	01
22.	-80 degree C Deep Freezer Model- KALTIS AVO39M, Capacity 390 litres	01
23.	Deep Freezer	01
24.	Rotary Evaporator, MP095Z vaccum pump with regulator & MC 3i Mini Chiller	01
25.	Rotamex- 5.4 Lane Rota-Rod for rats RS-232 and software & Actimeter	01
26.	CO2 Incubator model SC05A-2	01

Sl. No	Name of the Equipments	Quantity
27.	Motic Microscope Model BA 210 Trinocular Research Microscope	01
28.	Dlink IP Camera (D-Link DCS-6818 Camera with Dome PTZ IP66 Vandal proof D/N, 36X optical zoom)	01
29.	IBM Server Desktop Computers Acer Veritron 10 KVA UPS Make HYKON Networking supply and Installation	01
30.	Simulators	01
31.	Inverted Microscope Model Ti-U with Accessories	01
32.	Skin Instruments Courage Kazaka Delphin Instruments MPA-580	01

4. KLE Institute of Nursing Sciences, Belagavi

Sl No	Name of The Equipments	Quantity
1.	Dummy to Community Department	01
2.	Adult veni puncture & Injection training kit	01
3.	Abdominal palpation model for OBG lab	01
4.	Injection training kit	01
5.	Simpad (ERO)	01
6.	5 Community Health Nursing Lab Models	05
7.	Adult Female Pelvis	05
8.	Fetal Skull	05
9.	Child Health Nursing	01
10.	Breast Self Examination Module	01
11.	Nursing Baby Vital Sign	01
12.	Nursing Baby Advanced	01
13.	Multi Functional female training manikin. GD/H2	03
14.	Basic Combination training manikin Unisex GD/ H 100s	01
15.	New style newborn model. PVC (Model. No.XC.409.A)	02
16.	Human Fetal Skull Model natural size (Model. No. ZX 1201)	02
17.	Advanced Nursing Baby Model	02

5. KLE Institute of Physiotherapy, Belagavi.

Sl. No	Name of the Equipments	Quantity
1.	2525 Steam Pack std	05
2.	Wax Bath	01
3.	Bolsters [Large]	01
4.	Digital Ultra Sound Unit	01
5.	Muscle Stimulator	02
6.	9296 Stabilizer Pressure Biofeedback Unit	01
7.	121027 Digital Absolute axis goniometers	01
8.	Buhl Pocket Spirometer	01
9.	Cardboard mouth Pieces	01
10.	Plastic Mouth Pieces	01
11.	Flutter	01
12.	Vita pep	01
13.	Treadmill	01
14.	Parallel Bar	01
15.	Shortwave Diathermy	01
16.	Large Size wedged	01
17.	Exercise mat	01
18.	Comp IFT Unit IF -9	01
19.	Pulse Oxymeter	01
20.	Balance Board	01
21.	Compact Staircase	01
22.	Electro medical Apparatus [with tech laser]	01
23.	EMG/NCV with Biofeed Back [14003 2ch]	01
24.	2776 IMICO suspension frame	01
25.	2777 Couch for suspension activities	01
26.	3038 Walker Universal Paraplegia	01
27.	3121 Tilt Table	01
28.	21057 Digital Inclinator	01
29.	Dynamometer Hand Evaluation Kit	01
30.	Sensory Motor equipment Set	01
31.	Phyaction machine1901	01
32.	Developmental Assessment Scale for Indian Infants (DASII) Kit with manual	01
33.	Manipulation Couch	01
34.	2800 upper Electricity Exercise Station	01
35.	2792 IMICO Company Exercising Unit	01
36.	Kody's Interferential Therapy unit Kodytron PLUS	01

Sl. No	Name of the Equipments	Quantity
37.	Electro Medical Apparatus Muscle stimulator Electrostim Dt Digital	04
38.	Ultrasound therapy Electroson 608	01
39.	Jakar Flexi curve	05
40.	Kegal Exerciser	01
41.	Home GYM AeroFit Elliptical cross	02
42.	Trainer aeroFit Af-6380 dm	01
43.	Sports First Aid kit	01
44.	AMI Bloster	02
45.	Enima Traction Machine Plywood Brekets	02 02
46.	Scoliometer	01
47.	Nivello Pelvic - Inclinator	01
48.	Speedy LSS Automatic scrubber drive	01
49.	Aerobic Stepper -760 medium	02
50.	Aerobic Stepper -ASTEP 78 medium	03
51.	Adult CPR Torso with light Controller	01
52.	Portable Electronic Goniometer	01
53.	Peritron Precision Periniometer	01
54.	Trampo Line	02
55.	Inspiratory Muscle Trainer	01
56.	Algometer	01

6. KLE College of Pharmacy, Belagavi

Sl. No	Name of the Equipments	Quantity
1.	HPLC system	01
2.	Digital Physiograph 2-channel with transducers-3 volume transducers-3 pressure transducers- 03	03
3.	Student Physiograph (02) single channel (wih 10 pack of chart paper)	02
4.	Helios 401 Spirometer (with laptop, windows XP)	01
5.	FTIR	01
6.	AAS-AA700 Model Atomic Absor. Photometer	01
7.	UV-VIS	02

Sl. No	Name of the Equipments	Quantity
	Spectrophotometer	
8.	Rotary Evaporator	01
9.	Rotoevaporator	01
10.	Interactive Panel & Visinaliser	01
11.	Trinaculor Microscope	01
12.	Flash Chromatography	01

7. KLE College of Pharmacy, Hubballi

Sl. No.	Name of the Equipments	Quantity
01	Blood Pressure Sensor	01
02	Ice Cube Machine	01
03	Vlife MDS Softwar	03
04	Apple Make Computers	03
05	Polyrite 2 channel	01
06	Vacuum Pump	02
07	Digital Plethysmometer (Orchid Make, Model – PLM 01)	01
08	BOD Incubator	01
09	Julabo Heating & Refregerated Circulator	01
10	PCR System (Eppendrof Master Cycler Gradient)	01
11	Diffusion Cell EDG -07	01
12	Syngene Gel Documentation System	01
13	Stability Chamber	01
14	Electrophoresis System	01
15	Spectrofluorophotometer	01
16	Electronic Balance	01
17	Elisa Reader	01
18	Non Fluorescent cell	01
19	Refrigerated Centrifuge	01
20	Langendorff	01
21	Ultra Sonic Bath	01
22	Olympus Trinocular Microscope	01
23	CO ₂ Incubator	01
24	HPTLC	01

8. KLE College of Pharmacy, Bengaluru

Sl. No.	Name of the Equipments	Quantity
1.	Rotovapor – R3	01
2.	Peristaltic Pump-Flowrate 450ml	01
3.	Diffusion Cell apparatus in 6 stage	01
4.	Shimadzu Prominence Binary Gradient HPLC	01
5.	Tablet Dissolution Tester Model – TDT-08L	02
6.	Scientific Microware Synthesis System model-catar	01
7.	ATR Spectrophotometer -alpha-Bruker	01
8.	Rota Vapor	01
9.	Easylib Software	01
10.	Automatic Elisa Reader	01

4.2 Clinical Learning Resources

4.2.1 Teaching Hospital

- **Year of establishment – 1996**
- **Teaching hospital of medical college**
 - Since the inception of the Institute in 1963, the District Hospital, Belagavi was used as a teaching hospital by MoU with Government of Karnataka. Additionally (1986) 240 bedded KLE hospital with facilities like ICU's, good operation theaters was established.
 - A super speciality and general speciality hospital of 1000 beds was established in **1996** which was then used as teaching hospital.
 - 1200 beds charitable hospital was established in **2004**, which caters free of cost service to the needy patients, including food.
 - **With this, fully functioning 2200 bedded hospital is being used for teaching learning purpose since 2006.**
 - Three PHCs and three UHCs are under the administrative control of the University within the radius of 25 kms, where outpatients, as well as, emergency primary care are being provided. These facilities are used for teaching-learning activities.
 - The University has 5 satellite health care centers located at a distance ranging from 50 to 100 kms where the postgraduate students and faculty are posted on rotational basis.

- Teaching hospital of Ayurveda College (1933), which came under the ambit of KLE Society in 1990 and shifted to new premises in 2005 with advanced facilities in all specialities of the Ayurveda has **281 bedded** hospital.
- **Hospital institution distance**
 - Teaching hospital of Medical College – 300 mtrs from medical college. It is in the same campus.
 - Teaching hospital of Ayurveda College – 5 mtrs within the same campus.
- **Whether owned by the college or affiliated to any other institution?**
Owned by University
- **Are the teaching hospitals and laboratories accredited by NABH, NABL or any other national or international accrediting agency?**
Yes, Laboratories at teaching hospital are accredited by NABL and the hospitals are in the process of NABH accreditation.
- **Number of beds -- $2200 + 281 = 2481$**
 - Teaching hospital of Medical College – 2200 beds (includes 1200 Charitable Hospital and 1000 beds in Super speciality)
 - Teaching hospital of Ayurveda College – 281 beds
- **Number of specialty services – 33**
 - Teaching hospital of Medical College – 24
 - Teaching Hospital of Ayurveda College – 09
- **Number of super-speciality services - 19**
 - Teaching hospital of Medical College – 14
 - Teaching hospital of Ayurveda College – 05
- **Number of beds in ICU / ICCU / PICU / NICU, etc.**
In teaching hospital of Medical College – **270**
 - ICU = 150
 - ICCU = 63
 - PICU = 09
 - NICU = 48

- **Number of operation theatres – 36**
 - Operation theatres in Teaching hospital of Medical College – 31
(major = 26, minor = 05)
 - Operation theatres in Teaching hospital of Dental College – 01
 - Operation theatres in Teaching hospital of Ayurveda college – 4 (major = 03, minor = 1)
- **Number of Diagnostic Service Departments – 36**
- **Teaching Hospital of Medical College – 31**
 - Enzymes, Drugs and Hormonal assays, ECG, EMG, EEG, BERA, Gastro-Endoscopy, Colonoscopy, Nasal Endoscopy, Arthroscopy, Colposcopy, Laparoscopy, Fundus Camera, Laser, Perimetry, B-Scan, Pure tone Audiometry, Impedence audiometry, Flexible Video-Bronchoscopy, PFT, Video-Rhinolaryngoscopy. Radiology : Digital X-ray, C-arm system, Mammography, Sonography, Echocardiography, Colour Doppler, 64 slice cardiac CT, 1.5 Tesla MRI, Dexa scan, Fluroscopy DIACOM
- **Teaching Hospital of Ayurveda College – 05**
 - Srishti (Fertility centre), Hridaya (Ayur Cardiac care), Obesity Cell, Agada and Priyangu (Ayur Cosmetic care)
- * **Clinical Laboratories – 06**
 - Teaching hospital of Medical College – 04 (Pathology, Histo – Pathology, Biochemistry, Microbiology)
 - Teaching hospital of Ayurveda College – 02 (General Laboratory, Fertility Laboratory)
- * **Service areas viz. laundry, kitchen, CSSD, Backup power supply, AC plant, Manifold Rooms, pharmacy services --** Teaching hospital has service areas for laundry, kitchen, CSSD, Backup power supply, AC plant, Manifold Rooms, pharmacy services. Along with above mentioned areas, hospital also has standard incineration unit and sewage treatment plant.
- * **Blood Bank services -- 02**
 - Valid Licence: Yes, valid up to 31.12.2017
 - Facilities of all blood components are available.
 - Adequate blood storage facilities are available.
 - All blood units are tested as per guidelines of the apex body of the blood bank before being dispatched from the blood bank.
 - Designated and well trained / experienced personnel are working in this unit.
 - Satellite blood collection centre at College of Ayurveda.

* **Ambulance Services**

24x7 services provided with 9 vehicles of which 3 ambulances are with the state of art technology (TC &EMS, Cardiac, and NICU ambulance), 2 Hearse vans and 4 ordinary ambulances.

* **Hospital Pharmacy Services – 07**

These Pharmacy units are functioning at OPD (2), IPD (1), Trauma Care and Emergency Medical Services Entrance (1), ICU (1), Ayurveda (1) and at Dental hospital (1).

Drug Poison Information Service

Poison Detection Centers : 02

- Poison Detection Centre situated in the teaching hospital has the facility to detect 50 Poisons / toxic components viz ; plant poison, all heavy metals, Insecticides, Pesticides, Rodenticides, Antidepressants, Antipsychotics, Aspirin and all kind of Medical Drugs.
- At Ayurveda hospital, drug poison information services are provided by OPD of Nirvisha speciality.

* **Pharmacovigilance Center – 02**

- **Pharmacovigilance Committee** is functional at KLES Dr Prabhakar Kore Hospital and Medical Research Center, Belagavi, Adverse Drug Reaction (ADR) monitoring and reporting activities are efficiently carried out, in consultation with clinicians from different clinical departments.
- Additionally, the hospital has **Drug Committee** – members include microbiologist, pharmacist, clinical pharmacist and representatives from each clinical speciality, which monitors the prescription practices including the surgical consumables.
- University's, J.N. Medical College was granted “Advanced Adverse drug reaction monitoring centre” under Pharmacovigilance programme of India. As a part of these activities, ADR collection boxes, display boards, yellow cards are made available at all the nursing stations.
- Ayurveda hospital is identified as **Peripheral Pharmacovigilance Center** for Ayurveda, Siddha and Unani (ASU) drugs.

* **Mortuary, cold storage facility**

The mortuary with 2 autopsy tables and cold storage facility for nine bodies (2 in sitting position and 7 in lying down position) is available within 200 meters distance of medical college.

Additionally, cold storage facility for 28 cadavers is available in the anatomy dissection hall of Medical College.

*** Does the teaching hospital display the services provided free of cost?****Yes**

Boards are displayed at prime places of the hospital and free services are informed to the patients / attenders / relatives of the patients at the time of admission.

*** What is the mechanism for effective redressal of complaints made by patients?****At teaching hospital of Medical College:**

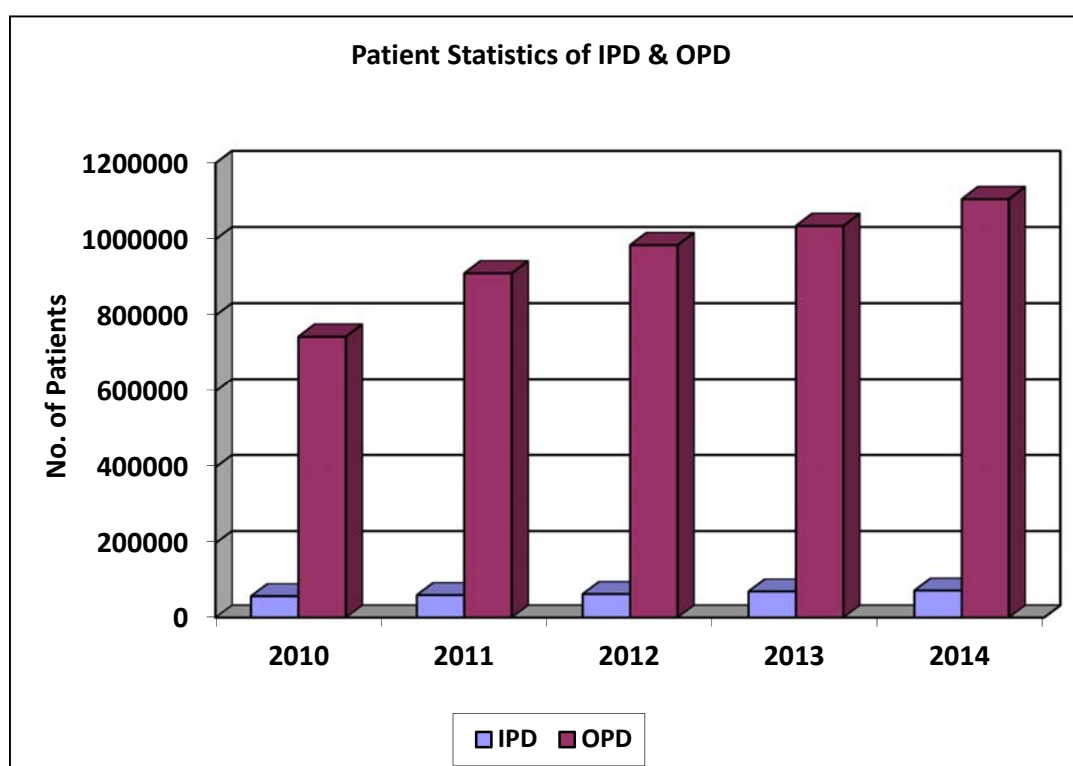
- Suggestion boxes are available in all the wards and ICU's of hospital for posting the complaints of patients. Boards at prime places displayed with the numbers to contact (intercom no. 1900, 1995).
- Additionally, patients / relatives can contact PRO office / administrative office directly. Grievance Redressal Cell is functional with members from hospital.
- Feedback forms are made available at the help desk of the hospital, on the hospital website and in all the wards for effective redressal of complaints made by patients.

At Teaching Hospital of Ayurveda :

- A completed feedback form (tri-lingual) is obtained at time of discharge by public relation officer. The data collected from the feedback forms is analyzed and used to improve the services. The Hospital Grievance and redressal Committee meets on 2nd Friday of every month.
- The medical teaching hospital and dental hospital collect the feedback forms randomly and the same is analyzed to improve the services.

*** Give four years statistics of Inpatient and Outpatient services provided.**

	Inpatient Services				Outpatient Services			
	KLE Hospital	Ayurveda Hospital	Dental College Hospital	Total	KLE Hospital	Ayurveda Hospital	Dental College Hospital	Total
2010	50,672	5,914	722	57,308	4,89,708	1,24,101	1,30,602	7,44,411
2011	53,654	5,906	773	60,333	7,48,112	90,980	71,702	9,10,794
2012	55,921	6,493	676	63,090	7,93,972	80,403	1,10,374	9,84,749
2013	62,742	6,637	650	70,029	8,10,144	90,713	1,34,482	10,35,339
2014	63,992	7,701	804	72,497	7,40,588	1,01,503	2,63,532	11,05,623
	2,86,981	32,651	3,625	3,23,257	35,82,524	4,87,700	710,692	47,80,916



*** Does the hospital display charges levied for the paid services?**

Yes

The hospitals have a tariff book showing charges for various services and same is informed to the patients at the time of admission. The detailed receipt is provided for all services rendered.

*** Are the names of the faculty and their field of specialization displayed prominently in the hospital?**

Yes

- The names of the faculty, their field of specialization, their designations and OPD days are prominently displayed at the entrance lobby of the hospitals and in their respective Out Patient Departments.
- Display of day-wise consultants is available.

*** Is pictorial representation of the various areas of the hospital displayed in a manner to be understood by illiterate patients?**

Yes

Pictorial depiction with arrow marks are displayed to represent the various areas of the hospital in every section. All the sign boards are displayed to guide the patients & visitors. The floors are named after the names of the rivers which the laymen are familiar with. Hospital model has been displayed at the entrance lobby of the Hospital. Each floor of the hospital is colour coded.

*** Is there a prominent display of ante-natal, mother and child health care facilities?**

Yes

At teaching Hospital: Kangaroo Mother Care, Breast feeding room including family welfare services, Prevention of Parent to Child Transmission (PPTCT) places for Counseling are available in the OPDs and wards in the Departments of Obstetrics and Paediatrics.

At Ayurveda Hospital: Garbha Samskar, Suvarna bindu, Samvardhan, Kangaroo Mother Care, Breast feeding rooms have the display.

*** How does the hospital ensure that the patient and the relatives / attendants are informed about the rights, responsibilities and the health care costs?**

- The hospital has helpdesk facility to guide patient and the relatives/attendants about the rights, responsibilities and the health care costs.
- The hospital has Public Relation Officers who provide information to patients/ their relatives/attendants at the bed side on admission.

- At the admission counter, information regarding the rights, responsibilities and the health care costs is also provided.
- The hospital website also displays information regarding various health care facilities available.
- Charts are displayed in every ward regarding the same.
- Awareness training on patients and family rights is given to staff.
- Monitoring violation of patient and family rights : Violation of patient and family rights are identified in two ways i.e., Patient feedback system and suggestions/complaints from patients are collected through suggestion boxes. In case of violation, the details are recorded, reviewed and corrective/preventive measures are taken by Grievance and Redressal Cell.
- Patient and patient's family members are educated about their healthcare needs by treating doctor or his/her team members.
- Patient and patient's family members are educated in a language and format that they can understand and also about the safe and effective use of medication and the potential side effects of the medication, diet and nutrition, immunizations, about their specific disease process, infection control, complications and prevention strategies.

* **How does the hospital ensure that proper informed consent is obtained?**

- Consent form is an integral part of the medical records. This is explained by the doctors and nurses in the patients' language and their signature obtained. Before every procedure, investigation and surgery informed consent is compulsorily obtained from patients/authorized person and witnesses.
- In case the patient is incapable of independent decision making the consent to be obtained as per statutory norms, i.e., next of kin or legal guardian.

* **Does the hospital have well-defined policies for prevention of hospital-acquired infections?**

Yes

- There is a Hospital Infection Control Committee which follows guidelines described in the manual on the hospital acquired infections. This activity is supervised by a Hospital Infection Control Officer.
- The hospital administration has undertaken preventive measures against Hepatitis B, by providing free of cost vaccination to all the employees.

- * **Does the hospital have good clinical practice guidelines and standard operating procedures?**

Yes

The Standard Operating Procedure manuals are available in the hospitals.

- * **Does the hospital have effective systems for disposal of bio-hazardous waste?**

Yes

There is a committee for Bio-medical Waste Management & also there is manual for Standard Operating Procedure for bio-medical waste management, which functions as per the guidelines. The hospital has incinerator which has capacity of 150 kg per hour which can work upto 18 hours per day.

- * **How does the hospital ensure the safety of the patients, students, doctors and other health care workers especially in emergency department, critical care unit and operation theatres? Are the safety measures displayed in the relevant areas?**

Yes

- The safety measures are displayed in the relevant areas of the hospital for safety and benefit of patients, students, doctors and other health care workers. The students & doctors wear gloves, masks & caps while handling patients in these areas. The health care personnel are screened for infectious diseases. The patients are screened for HBSAg & HIV after due counseling. The universal precautions are taken by health care personnel in the hospital. All health care personnel are vaccinated with Hepatitis B vaccine.
- Periodic educational sessions are held to create awareness and practice in the standard manual.
- WHO recommended safety guidelines are followed in all the operation theaters and wards of the hospital.
- Employees undergo regular health check-up.
- The hospital personnel are trained regarding fire safety measures by fire extinguisher Department.
- Fire Extinguishers are placed at various locations in all buildings.

*** How are the Casualty services/Accident and Emergency Services organized and effectively managed?**

- The hospital has casualty services/accident and emergency service unit which provides 24-hour services including pharmacy, laboratories, X-Ray, CT Scan units and blood bank.
- The Accident and Emergency Department functions round the clock with a physician, surgeon and anesthetist in constant attendance. As patient enters the casualty, the primary evaluation is carried out in the Triage area. Those requiring careful monitoring are shifted to level I and level II ICU in the casualty. There is a resuscitation room with all the emergency equipments and drugs. They are backed by super-specialty consultants on call and specially trained and qualified nursing staff.
- All the essential life-sustaining facilities, including pipes (Centralized) medicinal gases and suction, a 500 mA mobile X-ray machine, ultrasonography/ECHO, multipara monitors, defibrillators, set of three ventilators and a separate operation theatre complex solely dedicated to accident and emergency work are available. The stable patients are shifted to the wards.
- A fleet of ambulances (9) including critical care ambulance (Mobile intensive care unit) provides continuous service.
- A committee of Trauma care and emergency medical services plans and monitors the casualty services. Over all services are supervised by Medical Director, Medical Superintendent and Nursing Superintendent.
- Pneumatic tubing facility for transfer of biologic samples is provided.

*** Whether the hospital provides patient friendly help-desks at various places.**

Yes

At the main entrance of hospital, help desk and enquiry services are available. PRO Office is situated at ground floor and help desks are established in essential areas of the hospital including, casualty.

*** Does the hospital have medical insurance help desk?**

Yes

- There is separate Credit Cell for medical insurance with chief insurance officer and staff who guide patients and attenders on various health insurance schemes available in the hospital.

- **Vaidyashree scheme of the KLE Hospital** is available with minimum premium for all students, faculty and their dependents in all institutions of KLE Society.
- The hospital has help desk for State Government sponsored health schemes such as **Balsanjeevini, Suvarna Arogya Chaitanya, Yashaswini, Arogya-bandhu, Vajpayee Arogya bhagya**, etc.

* **What are the other measures taken to make the hospital patient friendly?**

- Appointment of highly skilled, co-operative and friendly staff.
- Help desks are available in important areas of hospital.
- Contact numbers are displayed at many areas for the benefit of patients / attendants in case of emergency.
- Pictorial depictions, arrow marks and display boards in regional languages which give information about route and various facilities and departments.
- Feedback forms and suggestions boxes at multiple places.
- Free food, medicines and treatment are given for poor patients. Concession is given for staff, students and members of sponsoring society.
- Public Relation Office is functional in the hospital with 12 officers. It is located near the entrance on ground floor.
- Continuous power supply, ambulance facility and pharmacy on every floor. Adequate support staff in every ward is provided.
- Canteen, Coffee shops, Milk parlour, provision stores and fruits stall are available within the hospital.
- A prayer place is available for spiritual tranquility, a garden with lush green lawn and a statue of Dhanavantri in the center gives visual pleasure and comfort to the patients.
- Telephone booths and ATM facility are provided.
- Separate lift facilities for patients, relatives and doctors
- University School of Music conducts musical programme “**Ragas for Rogas**” and “**Melody Vs Melady**” on every third Friday of the month for spiritual and mental well-being of the patients.
- The Paediatrics ward has play area for children with toys and play equipments, like slides, sea-saw, rocking horse, chairs, etc.

- Dormitory (Dharmashala) facility available for patient's attenders at nominal rates.
- Attender's waiting room and rest room facilities are available outside operation theatres and ICU.
- Information brochures and pamphlets are available to patients free of cost.
- State Government sponsored Day Care Centre for psychiatric patients.
- A ramp is available.

*** How does the hospital achieve continuous quality improvement in patient care and safety?**

- Regular feedbacks from patients are taken for quality improvement.
- Hospital has been establishing more number of super speciality departments, high-tech operation theaters, rehabilitation centers, high-tech Intensive Care Units and high-tech laboratories.
- Hospital acquires latest equipments with advanced technology.
- Faculty attend ongoing Continuing Education Programmes.
- Drug Detection Center, Poison Detection Centers are available.
- Anubhav Mantap (A/c Seminar Hall) is frequently used for professional deliberations, live demonstrations and CME's.
- There is a structured quality improvement and continuous monitoring programme in the hospital. Various committees in the Hospital like, Patient Care Quality Assurance Committee (PCQAC), Infection Control Committee, OT Committee, Drug & Therapeutic Committee, Grievances Redressal Committee, Bio-Medical Waste Management Committee, etc monitor, maintain & enhance the quality of patient care.
- Smoke detectors, Emergency doors, CCTV cameras, fire extinguishers and 24x7 security guards are available.
- Security of the hospital is maintained by the Vigilance Department, which is headed by the Chief Vigilance Officer (CVO).
- The hospital has undergone NABL accreditation and is in the process of obtaining NABH accreditation.
- The nursing and technical / clerical staffs members undergo regular behavioral and skill development training.

*** What are the measures available for collecting feedback information from patients and for remedial actions based on such information?**

- Well designed feedback forms in English and regional languages are provided to the patients at the time of discharge.
- Feedback forms are issued to all the patients; the filled feedback forms are analyzed by the Public Relations Office.
- The Functional Committee looks into feedbacks received and conducts analysis of the feedback. Based on the results, report is submitted to the Management for consideration and approval. Remedial strategies are planned and implemented to overcome the concerns of patients and attendants.
- Suggestion boxes are placed in every ward of the hospital.

• How does the institution ensure uniformity in treatment administered by the therapists?

- The Departments have assessment and treatment protocols for treating specific disease, which is strictly adhered to by all the doctors and therapists.
- Therapists appointed in the hospital (Physiotherapist, Occupational Therapist, Speech Therapist, Respiratory Therapist, etc.) are experienced, qualified and are trained in standardized treatment procedures.
- The Doctors Committee constituted by the hospital periodically reviews the treatment administered by therapists. The Medical Director and Medical Superintendent personally monitor the uniformity of treatment by interacting with the concerned members.
- The teaching hospital is well equipped in terms of infrastructure, faculty, other facilities and availability of therapists like, Respiratory therapist, Occupational therapist and Physiotherapy therapists.

*** Does the institution conduct any orientation training programme for AYUSH-based para-medical staff?**

Yes

- J.N. Medical College, constituent unit of the University, which is identified as Regional Center for ICMR provides orientation and training programme for AYUSH-based Para-medical staff.

- University along with Ayurvedic College, its constituent unit, regularly conducts training programmes for Para-medical staff.
- The University encourages interdisciplinary research for Ayush which includes training for Para-medical staff.

4.2.2 What specific features have been included for clinical learning in the out-patient, bedside, community and other clinical teaching sites ?

Initiation :

- The hospital has monitored clinical outpatient and bedside teaching alongwith community oriented teaching.
- Outpatient examination rooms are designed to teach and evaluate medical students in basic clinical skills, including history taking, physical examination, communication and relationship building.
- Students have live encounters that give them first-hand training.
- Students learn to treat outpatients with a wide variety of diagnosis and backgrounds, and learn to employ the full range of outpatient treatment modalities.
- The principle teaching/learning activity is through direct patient care in the hospital and in the community.
- Didactics, supervision and quality improvement activities are designed to complement and augment the learning through direct patient care.

Sustenance :

- Students are given opportunity to carry out procedures on patients in OPDs and bedside in the teaching hospital under faculty supervision.
- In the community, clinical learning is through postings in the primary health centers and urban health centers which provides an opportunity for students to involve in various diagnostic and treatment oriented camps.
- Every ward has seminar room with ICT facility for clinical teaching and learning.
- The PG students are posted to other institutions for specialized training.

Enhancement :

- Telemedicine and community mobile vans facilities are available for satellite center, PHC's and other clinical teaching side.
- Clinical Skill Laboratory facility in the hospital enables to sharpen the clinical skills of postgraduate students by training on the models, mannequins & simulators.
- ICT enabled teaching is used for live demonstration of operations in the OT to the seminar room for undergraduate students.
- Digital library and Wi-Fi facility is available in the hospital premises for clinical learning/EBM practice.
- PACS system and DICOM facility are available.
- Regular training programmes, seminars and workshops are conducted by specialists for students and faculties.
- SOPs for all procedures are available.

4.3 Library as a Learning Resource**4.3.1 Does the library have an Advisory Committee ? Specify the composition of the committee. What significant initiatives have been implemented by the committee to render the library student/user friendly ?**

Yes

Initiation :

- The University believes that library is a necessity in one's academic life, and the library at University gives a fabulous enabling environment to research and is indeed the 'room for the birth of ideas' and named aptly as "Jnanasoudha". Presently, named in honour of Dr S. G. Desai, former Principal, J. N. Medical College, as "KLE University's Dr S. G. Desai Library".
- All constituent units of the University have institutional and departmental libraries with their own Advisory Committee.

Sustenance :

The Bye-Laws prepared under the Rule No.4 (vii) provide for the constitution of Library Committee for each college.

The composition of the Central Library Committee

Sl. No.	Name of the Member	Designation
1.	Vice-Chancellor	Chairman
2.	Registrar	Member
3.	Principals of Constituent Colleges	Members
4.	Three Heads of the University Departments / Vice-Principals of colleges by seniority and rotation nominated by the Vice-Chancellor	Members
5.	Finance Officer	Member
6.	Technical Officer (Software)	Member
7.	Officer Incharge Library	Member Secretary

The duties and responsibilities of the Library Committee are:

- (i) To provide proper organization and functioning of the library, documentation services and updating the stock of books.
- (ii) To provide proper modernization and improvement of library and documentation services.
- (iii) To recommend to the Board of Management the library fees and other charges for the use of library services by the students and others.
- (iv) To prepare the annual budget of the library and proposals for the development of library.
- (v) To prepare the annual report of the library and submit the same before the Board of Management.
- (vi) To prepare the annual budget of the departments / colleges.
- (vii) To establish the inter-library loan service.
- (viii) To procure books, journals, e-books and e-journals.

Enhancement :

The Advisory Committee has implemented the following :

- Students are provided with user ID's for 24x7 use of Wi-Fi services.
- Automated machine (KIOSK) is situated at the entrance of the lobby to enhance quick and easy book / journals search for students.

- E-learning resources for undergraduate, postgraduate, faculties: MEdRC, HELINET facility, BMJ Case Reports and Best Practices
- Book Bank facility is available in the library.
- Installation of Institutional Repository for uploading of dissertations, thesis and question papers of previous years, etc.
- The Central library conducts regular computer training programmes for teaching and non-teaching staff.
- University has been procuring new teaching and learning resources, in both print and electronic formats.
- Professional library staff members and subject specialists are available for consultation and to answer subject and library-related enquiries.
- College of Ayurveda conducts Library exhibition of old Ayurvedic manuscripts and Grantha's annually.
- All the libraries conduct book exhibitions by different publishers regularly.

4.3.2 Provide details of the following:

- * **Total area of the library (in Sq. Mts.)**
- * **Total seating capacity**
- * **Working hours (on working days, on holidays, before examination, during examination, during vacation)**
- * **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**
- * **Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection**
- * **List of library staff with their qualifications**

The University believes that libraries are a big source of enhancing academic and research activities amongst students and teachers. The library is developed as an organized collection of sources of information and similar resources, made accessible for reference or borrowing.

The Library Committee and Monitoring Committee meets regularly and deliberate upon various administrative and academic matters related to the libraries of the Universities. It is followed by implementation of concrete plan of action.

- * **Total area of the library (in Sq. Mts.) :**
Central Library and Libraries in the constituent units – **8268.92 Sq.mts**
- * **Total Seating capacity :** 2638 (Central Library & including constituent units)
- * **Working hours (on working days, on holidays, before examination, during examination, during vacation)**
 - On working days : 09.00 am to 10.00 pm
 - On Sundays and holidays : 10.30 am to 05.30 pm
 - On holidays /vacation : 10.30 am to 05.30 pm
 - However, reading room in Central Library is open for **21** hours for **360** days.
- * **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**

Layout of library is displayed at the entrance of all libraries in the constituent units.

The details of Central Library are as follows :

A. TOTAL AREA.	6160 sq mts
B. LIBRARY FRONT WING.	
1) Digital Library (IT zone), Office, Entrance (Lounge area etc.)	821.33 sq mts
2) First Floor (Dental Reference & Audio/Video Section)	821.33 sq mts
3) Second Floor (Relaxed Reading Room)	821.33 sq mts.
C. LIBRARY SECTION.	
1) Ground Floor (Individual reading carrels)	1232 sq mts.
2) Magazine Floor	1232 sq mts.
3) Second Floor (Relaxed Reading Room)	1232 sq mts.

- * **Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection**
 - Clear and prominent display of floor plan is provided at the entrance of the library. Sign boards are displayed in prominent areas.
 - Each floor is having book shelves that are cataloged, labeled and indexed.
 - Digital library facilities are available in Central Library, constituent units and teaching hospital of the University.

- Information regarding fire alarm is available.
- Wheelchairs are provided for the differently abled users.
- There is a system of searching books and journals through KIOSK and the library ensures Open Access System and it is utilized by all the staff, PG's, students and Ph.D. Scholars for books, journals, online issues of books.

*** List of library staff with their qualifications**

Sl. No.	Name of the Staff	Designation	Qualification
1.	Dr. V. M. Pattanshetti.	Officer-Incharge	M.S.
2.	Shri. R. D. Shivnaikar.	Librarian	MLISc. M. Phil.
3.	Mrs. Sangeeta Kusugal	Asst. Librarian	MLISc
4.	Smt. Preeti Genji	Asst. Librarian	MLISc
5.	Sri. S. P. Patil.	Asst Librarian	MLISc.
6.	Smt. Surekha Ladi	Asst. Librarian	MLISc
7.	Mrs. Vidya Patil	Library Asst.	MLISc
8.	Mr. S.G. Murgod	Asst. Librarian	MLISc
9.	Ms Manjushree	Asst. Librarian	M.LI.Sc
10.	Mr. Ravi. Hullur	Digital Library Incharge	MLISC, PGDHL
11.	Shri. Sanjeev A. Patil	Network Engineer	B.E.(E & C)
12.	Shri. V.V.Gudagagol	Library Asst.	B.A.MLI Sc.
13.	Mr. Vasant Patil	Asst. Librarian	BA. MLISc
14.	Miss. Rajeshwari. Mullur	Library Asstt.	B.Sc. MLISc
15.	Mr. S.M. Annigeri	Library Asst.	B.Com, B.L.I.S
16.	Mrs. S.Y. Yarazarvi	Library Asst.	B.A., B.L.I.S
17.	Mr. I. S. Mallapur	Library Asst.	B.A., B.L.I.S
18.	Smt .G S Tolagi	Asst. Librarian	B.A.MLI Sc.
19.	Shri. M.M. Hubli	Documentalist	B-Com
20.	Mr.S.M. Ambekar	Library Asst.	M.Lib
21.	Mr. Manoj shandar	Library Asst.	Dip. in Lib. Science
22.	Shri. M.S. Shiraganvi	Library Asstt.	D. Lib.Sc
23.	Miss. K.B. Kshirasagar	Library Asstt.	D.Lib.Sc
24.	Shri. M. B. Naganur	Cataloguer	D. Lib.Sc
25.	Mr. Rajesh Bagal	Technical Supervisor	DCE, DISM, MCSE
26.	Mr. Mahesh B. Wari	Lab Technician	Dip. in Computer Science
27.	Mr. Prajwal Patil	Desk-Top Support Engineer	Diploma in E&C

Sl. No.	Name of the Staff	Designation	Qualification
28.	Shri. K.M.Kajagar	Library Asst	Dip Library Science
29.	Shri. P S. Hattikar	Daftary	P.U.C
30.	Shri. C.A. Kundarnad	Daftary	PUC
31.	Shri. P.S. Godachanamalki	Daftary	PUC
32.	Santosh Kadabi	Binder	PUC
33.	Shri. Y.M. Biradar	Daftary	S.S.L.C

There are 21 peons and support staff in the libraries of constituent units.

4.3.3 Give details of the library holdings :

* **Print (books, back volumes, theses, journals) –**

Books	92595
Back volumes	13292
Dissertations/Thesis	3080
Journals	392
Total	1,09,359

* **Average number of books added during the last three years – 13,554**

* **Non Print (Microfilm, AV) – 629**

* **Electronic (e-books, e-journals)**

e-books	2470
e-journals	2614
Total	5084

* **Special collections (e.g. text books, reference books, standards, patents) – 2586**

* **Book bank - 7726**

- The library has book bank facility for text books through which books are issued to undergraduates.
- Borrower's card is compulsory for undergraduates to avail book bank facility.
- Book bank membership for undergraduate is valid for a period of one year with a fee of Rs. 100 and one book is issued for maximum of 15 days.

* **Question bank :**

- Question bank of theory papers is available for undergraduates, postgraduates and students of allied courses and super-speciality subjects in all the disciplines including, Ph.D.
- Validated MCQ question bank is made available.
- Question bank for entrance examination is provided.

4.3.4 To what extent is ICT deployed in the library? Give details with regard to

Initiation :

- The University is in agreement with Wikipedia that defines globalization as “literal sense as simply a means of international integration, that is a process by which the people of the world are unified into a single society and functioning together”.
- In the last couple of years, the University has been providing electronic sources delivery and network information from the libraries. The Wi-Fi facility and internet access have been one of the greatest technological advancement being experienced.
- Deployment of information and communication technologies have profoundly altered the outlook about information and dissemination.

Sustenance :

* **Library automation**

All the library operations are computerized by using Easylib 4.3.2/4.3.6 with SQL 2005 server. This has facilitated wider and deeper acquisition of information to improve the existing library services, to introduce new information services and to retrieve stored information easily. The libraries follow Dewey Decimal Classification Scheme for the classification of the books and accordingly, books are arranged on the book shelves. Colon classification is followed for the classification of the back volumes of journals.

* **Total number of computers for general access – 295**

* **Total numbers of printers for general access – 21**

* **Internet band width speed** ☐ 2mbps ☐ 10 mbps ☒ 1 GB

Internet facility with broad band connectivity of 40 MBPS is provided through leased line in the digital library of the University, constituent colleges & hospital where simultaneously, 222 students can access the facility.

* **Institutional Repository**

The University's Institutional Repository is the digital archive of the research output of PG dissertations submitted by PG Students and Ph.D thesis of various faculties. Anyone can browse the documents by title, author, department, date, key words, etc. It also includes question papers of previous years.

* **Content management system for e-learning**

All the digital library computers are centralized and managed with WINDOWS 2008 Active Directory and Group Policy Security System based HP server, 106 Client Computers, 2 VMware Virtual DNS & DHCP Servers, networked with 1 GB LAN and Central Managed Antivirus System.

* **Participation in resource sharing networks/consortia (like INFLIBNET)**

- The University is part of HELINET consortium and INFLIBNET / DELNET for resource sharing.
- The Medical Education Research Centre (MEd-RC) for Educational Technologies is a pioneer and thought leader in digitally enabling healthcare education. MEd-RC designs, creates and provides seamless access to a vast repository of uniform, standardized and peer reviewed e-content across all areas of healthcare.

Enhancement :

- The enhancement in the library facility has been revolving around advancements in Information and Communication Technology (ICT) which has gone a long way to influence the mode of information gathering, storage, retrieval and dissemination.
- BMJ Case Report and Best Practices are subscribed for the benefit of postgraduates and faculty which can be accessed on Wi-Fi in any part of the campus with IP linked user password.

4.3.5 Give details of specialized services provided by the library with regard to:

- * **Manuscripts**
- * **Reference**
- * **Reprography / scanning**
- * **Inter-library Loan Service**
- * **Information Deployment and Notification**
- * **OPACS**

- * **Internet Access**
- * **Downloads**
- * **Printouts**
- * **Reading list/ Bibliography compilation**
- * **In-house/ Remote Access to e-resource**
- * **User Orientation**
- * **Assistance in searching databases**
- * **Inflibnet / Helinet**

Initiation :

The University is appreciative of the fact that rapidly developing information and communication technology are creating new opportunities and challenges for traditional libraries. Hence, the University has digitalized the existing services by providing following special services:

Sustenance :

- * **Manuscripts** – Access to full text manuscript for research work is made available through the HELINET Consortium, Science Direct, OVID SP, BMJ and OUP. (Oxford University Press)
- * **Reference** -- Library has Online Reference Books, Practice Guidelines and Drug Information including, a separate reference room with latest books. Automated machine (KIOSK) is situated at the entrance of the lobby to enhance quick and easy book / journal search for students.
- * **Reprography / scanning** – Photocopy machines, printers and scanners at concessional cost enable users to avail reprography facility.
- * **Inter-library Loan Service** – Library has provision for inter-library loan services amongst University constituent college libraries and other colleges viz. Maratha Mandal's Dental & Pharmacy College, Belagavi, GSS College, Belagavi, KLES Dr M S Sheshagiri Engineering College, Belagavi
- * **Information Deployment and Notification** –
 - All the library operations are computerized by using Easylib 4.3.2/4.3.6 with SQL 2005 server.
 - Library functions are fully automated. This has helped the faculty and the students to know whether particular book is available in the library or borrowed by somebody.
 - The library follows Open Access System.
 - KIOSK and Institutional Repository software are in place for information deployment.

*** OPACS**

- The library has provision for online public access catalogue system through special software designed for the University. Negotiations are on to establish an educational hot-line to other famous national, international libraries. Some suitable links for exchange of matching material (visual discs, both print, as well as, computerized information) are established to enable sharing of knowledge and further enhancement of the needed material. In this regard, many schemes are being contemplated for sharing of knowledge globally in the fields concerned in order to widen the horizon of our understanding.
- The Library Search Engine is a web-enabled search engine that can be accessed on Intranet, as well as, on Internet through EZ PROXY software. EPAC can be used to browse/search for an item (book/non-book), along with its details and the availability, in a particular library. Online Journals subscribed by the library can also be searched and accessed through EPAC.

*** Internet Access**

- Internet facility with broad band connectivity of 40 MBPS is provided through leased line in the digital library. It provides large number of on-line journals, e-journals, e-books, on-line bibliography and e-mail. There are nine such digital libraries in the constituent colleges including hospital and has more than 222 nodes. It is being extensively used by the faculty, undergraduates, post-graduates and research students.
- The Campus has Wi-Fi facility. Students can access internet throughout the campus at any time.

*** Downloads** – The library has provision for research scholars, UG, PG students and faculty for free download of research articles through Science Direct, HELINET Consortium, OVID SP, BMJ and OUP (Oxford University Press), etc.

*** Printouts** – The library has 21 printers which provide facility of printing at concessional rate for the students and faculty.

*** Reading list / Bibliography compilation** – The University website and libraries have on-line reading list bibliography compilation.

*** In-house/remote access to e-resources**

- EPAC system in the library facilitates access to e-resources like, on-line journals and books. The Central Library is a member of HELINET Consortium which facilitates in-house and remote access to e-resources through EZ PROXY software.
- The Campus has Wi-Fi facility. The students and staff are provided with user ID and password to access e-resources anywhere in the campus at any time.

*** User Orientation –**

- Orientation classes are conducted in the library for faculty and students to enable them to access on-line learning material, e-learning resources like e-journals, books and research materials using, institutional repository and EPAC facilities.
- Basic computer training for teaching and non-teaching staff is a regular feature.

*** Assistance in searching Databases**

- EPAC - The Library Search Engine is a web-enabled search engine that can be accessed on Intranet, as well as, on Internet. EPAC can be used to browse/search for an item (book/non-book), along with its details and the availability, in a particular library. Online Journals subscribed by the library can also be searched and accessed through EPAC.
- **INFLIBNET/HELINET** -- KLE Academy of Higher Education and Research is the member of HELINET Consortium (Rajiv Gandhi University of Health Science). The consortium consists of the databases viz, Science Direct, MD Consult, LWW & ADIS, BMJ, Oxford University Press and Bentham Science.

Enhancement :

In addition to the above mentioned facilities library provides specialized services for the following:

- Department Library Service.
- Membership services to military doctors & local practitioners.
- Microfilm reader service.
- Binding facility
- Audio-visual facility.
- MEDLINE & IPA facility.
- Book bank facility for SC/ST students.

4.3.6 Provide details of the annual library budget and the amount spent for purchasing new books and journals.

- The University has substantial designated budgetary allocation for the library which scales up every year.

Annual library budget of constituent colleges

Constituent Colleges	Annual budget 2013-2014 (In Rs.)	Amount spent 2013-14 (In Rs.)
JNMC, Belagavi	1,20,00,000	1,21,77,016
KLE VKIDS, Belagavi	48,00,000	62,29,231
BMK, Belagavi	8,00,000	8,20,000
Nursing, Belagavi	10,00,000	9,86,354
Physiotherapy, Belagavi	11,50,000	10,37,667
COP Belagavi	10,00,000	10,10,200
COP Hubballi	4,85,000	4,98,000
COP Bengaluru	5,00,000	5,68,836
Total	2,17,35,000	2,33,27,304

- The University enhances the budget by 15% every year.
- The University embraces newer ICT enabled learning resources like BMJ Best Practices and Case Reports and EZ PROXY software.

4.3.7 What are the strategies used by the library to collect feedback from its users?

How is the feedback analyzed and used for the improvement of the library services?

The Library Committees meet regularly and evaluate the feedback forms and take appropriate measures for further improvement.

- Structured feedback forms regarding library services are placed near the entrance lobby and students are encouraged to provide feedback on improvement in library services.
- In addition, suggestion boxes are placed in the library for any complaints.
- Catalogues are sent to all Institutes for latest upgradation of books and numbers.
- Based on the analysis of feedbacks received, Library Committee has introduced facilities like KIOSK, Institutional Repository etc.

4.3.8 List the efforts made towards the infrastructural development of the library in the last four years.

Library in its endeavor to give its best services to the students has been adding newer infrastructure facilities to create a good learning ambience for the stakeholders.

- Constituent colleges have been provided with adequate floor area for library.
- During last four years, in addition to purchase of books and journals, the University has spent Rs. 45 lakh on purchase of computers, library furniture, and maintenance of library books (book binding). Renovation of various counters of library has been done with an expenditure of Rs. 20 lakh.
- New softwares have been installed.
- Roll of honors and statistics board have been displayed.
- CCTV cameras and air conditioners are placed in reading and reference rooms of the library.
- Provision of separate room for Laptop users.
- MEDLINE & IPA Facility is provided.
- KIOSK has been installed for easy access in library.
- News paper reading section and new staff cabins have been developed.
- New library in Ayurveda College (Jnana Sangama) has been constructed with funding from Central Government.
- Digitalization of the library has been completed.
- Separate sections for PG, UG and faculty with increased seating capacity have been provided.

4.4 IT Infrastructure

4.4.1 Does the institution have a comprehensive IT policy with regard to:

* IT Service Management	Yes.
* Information Security	Yes.
* Network Security	Yes.
* Risk Management	Yes.
* Software Asset Management	Yes.
* Open Source Resources	Yes.
* Green Computing	Yes.

4.4.2 How does the institution maintain and update the following services ?

- * **Hospital Management Information System (HMIS)**
- * **Electronic Medical Records System (EMR)**
- * **Digital diagnostic and imaging systems including PACS**

The policy of proper recording and documenting in the hospital is effectively implemented for efficient patient care and research. The University has been adopting ICT enabled newer technologies to maintain the records in the hospitals to meet the global standards.

- The working of the hospital is computerized (Hospital Information Resource Planning System). This software has more than 30 modules that covers all aspects of management and operations of hospital.
- It is designed to achieve best clinical outcomes, optimal financial performance and most importantly, patients and employees satisfaction. The total cost of this facility is Rs.180 lakhs.
- The work of Medical Record Section is also computerized which helps to retrieve the information for research and to prepare various statistical inputs required to be sent to the Government. One dedicated server is assigned and daily basis backup is maintained.
- Hospital Information System (HIS) is timely upgraded by IT staff.
- Template of discharge summary sheets is practiced and monitored.
- Investigational reports are available to all the wards through LAN system.
- DICOM & PACS systems are available.
- LEAN Lab facility is available in the hospital.
- Pneumatic tubing transport facility for biological samples is available.
- Records of digital diagnostic and imaging systems like CT SCAN, MRI, Sonography, Digital X-ray & CR system etc. are maintained and updated regularly. This facility is presently available in Radiology departments & in process to extend to all the departments. This facility is networked between the departments.

4.4.3 Give details of the institution's computing facilities i.e., hardware and software.

- * **Number of systems with individual configurations**
- * **Computer-student ratio**
- * **Dedicated computing facilities**
- * **LAN facility**

- * **Wi-Fi facility**
- * **Proprietary software**
- * **Number of nodes / computers with internet facility**
- * **Any other (specify)**

The University believes in adapting and excelling and hence, has made latest computing facilities in all departments of constituent units.

- * **Number of systems with individual configurations – 767**
- * **Computer-student ratio –1:5**
- * **Dedicated computing facilities** – Available for Digital Imaging Systems, Dolphin Imaging System, Hospital Information System and accounting systems at administrative office, software's for research, library, examinations, etc.
- * **LAN facility** – LAN facility with 40MBPS bandwidth
- * **Wi-Fi facility** –Wi-Fi campus
- * **Proprietary software** – Available for library, hospital (patient records, pharmacy, diagnostic laboratories, operation theatre, etc.), university and examination section.
- * **Number of nodes/ computers with internet facility – 222 / 767**
- * **Any other (specify)** -- Libraries have E-learning resources like e-database, e-books, e-journals ICT and smart class, production of teaching modules and interactive learning, MED RC Server, Helinet, Science Direct , Access to Cochrane database, INFLIBNET and “Sakshat.ac.in” through 1 GBPS lease line obtained through NMEICT. Institution has various software computing facilities like WINDOWS XP, WINDOWS 7, MS OFFICE 2007, MS OFFICE 2010, Adobe reader, Customized Application Software for administrative purpose, Tally-ERP-9 for account section, SPSS software latest version no. 21 for research, website updation software, etc.
 - The hardware computing facilities at the University are above dual core processor which includes DDR 2 and 3 and includes, more than 200 GB of hard disk with TFT / LED monitor along with network printer.
 - Continuous up-gradation for the software is being done.
 - Software used for research purpose in Research Foundation is SPSS version no.21.

4.4.4 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

Initiation:

The institution has a strategic plan for upgrading regarding the IT infrastructure and associated facilities to improve the quality of student experience, teaching methods, clinical services and operational efficiency of all the stake holders. The goal is to maximize the benefits and services provided to the students and patients. A well defined e-governance framework is set to provide quality service to the stakeholders. Up-gradation of hardware, network and software infrastructure is done continuously.

Sustenance:

- Technical Committee Chaired by Vice-Chancellor looks into revival strategies of information and technology associated facilities.
- Computers and its accessories are purchased with three years onsite warranty and for telephone exchange (Electronic Private Automatic Branch Exchanges – EPABX) there is Annual Maintenance Contract (AMC).
- University has its own IT Department with experienced service engineers who maintain hardware and software after warranty period.
- New and latest hardware and software are purchased as per the requirement.
- Increase in the number of e-classrooms to enable web-based teaching learning programmes.
- To maximize the use of the e-governance portal to enable paperless and good governance.
- Web site is maintained through Content Management Systems(CMS) which was earlier ASP (Active Server Pages).
- Online application payment for AICET.

Enhancement :

- PACS networking is available in the Hospital.
- Helpline – facility to register online complaints of maintenance services.
- Installation of Office Automation Software.
- Record room facilities are upgraded periodically.

4.4.5 Give details on access to on-line teaching and learning resources and other knowledge and information database / packages provided to the staff and students for quality teaching-learning and research.

Initiation :

The teachers at the University are now educators who have been using and sharing internet resources. Enhanced technologies across the globe have encouraged the staff to strengthen their teaching with technology including discussions. This has also provided online tools for student's communication and collaboration in a structured environment.

Sustenance :

- The extensive use of ICT and e-learning scenario has motivated students to visit the library. This has encouraged the students to go for self-learning.
- Rapid Change in the health science education has inspired staff and students and Ph.D scholars to visit the library for referring new books and journals.
- The Digital Library provides large number of on-line journals, e-journals, e-books, and on-line bibliography. There are digital libraries in all the constituent units and the teaching hospital with more than 222 nodes. It is being extensively used by the faculty, post-graduate and research students.
- The Digital Libraries are kept open on all days except some holidays. They are open for 10-13 hours/ day and 9 hours in the hospital.
- All the library operations are computerized by using Easylib 4.3.2 with SQL 2.5 server. This has facilitated wider and deeper acquisition of information to improve the existing library services, to introduce new information services and to retrieve stored information easily. The libraries follow Dewey decimal classification scheme for the classification of the books and accordingly books are arranged on the book shelves. Colon classification is followed for the classification of the back volumes of journals.
- **OPAC (Online Public Access Catalogue)**
This module provides different types of search facilities such as an individual search of book by author or title or subject or any word, search of any journals received, search of back volumes and search of articles published in back volumes.

Enhancement :

- Institutional Repository including postgraduate dissertations, Ph.D theses and question papers of previous examination are the other on-line teaching-learning resources. The knowledge and information database/packages are provided to the staff and students. Total number of dissertations and Ph.D theses uploaded are 1264 and 23 respectively.
- Databases on various communicable and non-communicable diseases, population surveys, etc are available in the Department of Epidemiology and Bio-statistics.
- Online classes for overseas students in College of Ayurveda.
- On-line teaching modules are available for some of the programmes.
- PACS networking is available in the Hospital. This enables evidence based practice, as well as, immediate access to investigations and imaging records in the hospital. It has greatly enhanced teaching-learning and patient care.

4.4.6 What are the new technologies deployed by the institution in enhancing student learning and evaluation during the last four years and how do they meet new / future challenges ?

- Using advanced technologies for professional learning at University has offered the possibility of improving current processes, stretching resources, expanding the learning environment, and improving learning skills. Since the connected generation expects access to information anytime and anywhere, University has been trying to find new possibilities to meet the needs of mobile generation cost-effectively while also addressing the requirements of the faculty.
- The **Department of Medical Education of J N Medical College, is one of the oldest in the country recognized by MCI.**
- Wi-Fi campus facility is provided on the campus.
- All lecture theaters, lecture halls, seminar rooms and auditorium are provided with the LCD projectors, and laptops that are being extensively used by the faculty for computer-aided teaching.
- All faculty members use power point presentations for teaching learning sessions. Some faculty use e-content learning material.
- e-dissection, e-animal experimentation are being practiced.

- Evidence Based Medicine, Evidence Based Dentistry, Tele-Medicine, Tele-Radiology, Tele-Pathology, digital library in the hospital, CDs/DVDs of rare cases and surgeries/procedures have enhanced teaching-learning mode.
- The Helinet Consortium provides access to full text journal articles through science direct, OVID-SP, OUP, Blackwell synergy etc. which has enhanced quality of teaching-learning and research.
- Newer technologies of teaching enable students to get empowered with recent developments in health sciences. It also enables them to face the professional challenges with a sense of pride and commitment.
- New and latest software's like ENDNOTE, Reference Manager, SPSS versions etc. are available for postgraduate and Ph.D scholars for research.
- Live networking of operative procedures from various centers all over the world is possible.
- Teleconferencing and webinar facilities are provided.
- BMJ Best practice and case reports are available online.

4.4.7 What are the IT facilities available to individual teachers for effective teaching and quality research ?

- Wi-Fi campus has facilitated all teachers to have access to latest information/ knowledge in their respective fields which promotes newer teaching methods / research concepts/ ideas.
- The campus has been provided with more than 400 nodes, network with fiber optics backbone with one or more fiber segments reaching every building on the campus.
- Every workplace on the campus including, faculty offices, classrooms, management, computer laboratories and administrative offices have network connectivity.
- Teachers are provided computers with internet facility to access teaching materials.
- Access to full text research articles from quality journals are available that have enhanced quality teaching learning and research.
- Computers with LCD projectors are provided for effective teaching.
- Library has CDs and DVDs of rare procedures, surgeries, advanced teaching material which can be accessed by the faculty and students.

- Digital library facility in the hospital and college.
- Other modes of IT communication are used which promotes patient care.
- New and latest software like end note, reference manager, SPSS versions etc. are available for research, patient care and administration.
- Databases on various communicable and non-communicable diseases, population surveys etc. in the Department of Epidemiology and Bio-Statistics are among the other knowledge and information packages available to students and staff for research and teaching-learning.
- Institutional repository facility is provided in the library.
- Tele-medicine facility at the hospital and peripheral health centers enhances quality of clinical teaching and patient care.
- Regular conference calls are being held by various faculties with their international co-investigators.
- Through Central Government, National Mission for Education (NME), the University provides free internet connection to the faculty residences.

4.4.8 Give details of ICT-enabled classrooms/learning spaces available within the institution. How are they utilized for enhancing the quality of teaching and learning?

Initiation :

A phenomenal growth in communication technology, computer network and information technology has encouraged university to integrate ICT, that has been offering unprecedented opportunities in teaching.

Sustenance :

- Every classroom and seminar room in the constituent colleges has computer with LCD projector.
- Every institution has digital library.
- Every Department has computer with internet connection for enhancing teaching and learning.
- The hospital has provision for ICT enabled learning space and digital library.
- The installation of a teaching computer/laptop digital projector and visualiser in the classrooms has enabled the teacher to present rich and stimulating learning materials to the class, while facilitating group work and collaborative learning.

Enhancement :

- Tele-medicine facility at the hospital and peripheral health centers enhance quality of clinical teaching and patient care.
- Video communication with bi-way facility enables students to have direct visualization and communication with operating surgeon.
- Facility of online PG coaching for entrance examination through a virtual class room is available in one of the constituent colleges.
- The Clinical Skill Laboratory is equipped with video demonstrations on their individual screens which promote the surgical skills.
- Teleconferencing and webinar facilities are available.
- Department of Medical Education (DOME) conducts regular PG orientation programmes which utilize ICT facility.
- The postgraduate students are exposed to e-learning modes and orientation programmes.

4.4.9 How are the faculty assisted in preparing computer-aided teaching-learning materials? What are the facilities available in the institution for such initiatives ?

Technology configuration in teaching has been offering education systems with a capacity to integrate, enhance and interact with each other over a wide geographic distance in a meaningful way to achieve the learning objectives.

- Teachers are provided computers with internet facility to access to academic resources for teaching.
- All Faculty members are qualified and well versed in the use of computers, computer training programmes are conducted for new entrants, if required.
- Hands on training are conducted for learning the usage/upgrade of software.
- All lecture theaters, lecture halls, seminar rooms and auditorium are provided with the LCD projectors, screens and laptops.
- Faculty development programmes conducted through UDEHP, include topics on computer aided teaching-learning and facilitate access to teaching material.
- Teaching staff participates in the basic computer training programmes conducted at library. On-line network of lectures are being conducted by experts for the students and faculty.

- Apple iMac computers in teaching course content (drug design) to students are used by the faculty members in the Colleges of Pharmacy of the University.

4.4.10 Does the institution have annual maintenance contract for the computers and its accessories ?

Yes

Since inception the University has a regular annual maintenance contract with reputed companies as per the standard norms.

- Normally, computers and its accessories are purchased with three years inbuilt onsite warranty and thereafter, they are maintained by way of an annual maintenance contract (AMC).
- The computers are usually replaced once in 5 years with new units.
- We have a team of qualified, well-trained and experienced computer engineers and technicians engaged in maintaining and programming the IT infrastructure and its accessories, server maintenance, network services, hardware services.
- The University has appointed vendors to collect e-waste. The plastics and cast-off waste is recycled and other waste dispatched as per norms.

4.4.11 Does the institution avail of the National Knowledge Network (NKN) connectivity? If so, what are the services availed of?

Yes

- The University has signed service level agreement under NMEIGT project with National Knowledge Network w.e.f. 25th January 2014. The institutions avail the National Knowledge Network (NKN) connectivity. Service window is from 1000 hrs to 1800 hrs on all working days.

Following services are provided.

Generic Services:

Internet, Intranet, Network Management Views, e-Mail, messaging Gateways, Caching Gateways, Domain Name System, Webhosting, Voice over IP, Multipoint Control Unit (MCU) Services, Video Portals, SMS Gateway, Co- Location Services, Video Streaming, etc.

Community Services:

Shared Storage, e-Mail List Software Application (LISTSERV), Authentication Service, Session Initiation Protocol (SIP), Collaboration Service, Content Delivery Service, International Collaborations with EU-India Grid, Global Ring, Network for Advanced Applications Development (GLORIAD), etc.

Special Services:

Virtual Private Network Stitching Services [VPN@L2 (Virtual Private Wire Service / Virtual Private LAN Service), VPN@L3], etc.

NKN has enabled high speed data communication network to interconnect with the institutions of higher learning and research.

4.4.12 Does the institution avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard ?

Yes

The use of Information Technology (IT) is a vital feature of the new curriculum that is carried out through web-based, computer-facilitated learning (CFL) and creation of multimedia teaching materials

- The institution has facilitated the faculty members, researchers and students to access online educational resources for academic and research.
- All educational sites are allowed access to wikipedia, dictionary services and are extensively used.
- These also help in the communication activities of institute like community engagement and mobilization.
- These services are extensively used in research and patient care related activities in order to enhance proper communication in their vernacular language.
- During working hours, only educational videos in YouTube can be accessed.

- The policy of institution in this regard is to encourage access to open source archives.
- Clinical based medical conditions are delivered to students in tutorial settings through various software, over the Web.
- Other learning resources such as websites, image banks, self-assessment tests, multimedia modules, experimental simulations, etc. can also be accessed by students via the computer.
- In order to improve student's communication with the patients, regional language classes are being conducted.

4.4.13 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the institution.

The annual budget for update, deployment and maintenance of computer related services on an average is **Rs. 122.82 lakhs** per year.

(Rs. in lakhs)					
	2010-11	2011-12	2012-13	2013-14	2014-15
Update of computers	142.44	161.75	92.61	75.40	96.70
Deployment of computers and Maintenance of computers	8.71	9.45	8.51	9.73	8.84
Total	151.15	171.20	101.12	85.13	105.54

Available budgetary provision for computers has helped to manage capital resources effectively.

4.4.14 What plans have been envisioned for the transfer of teaching and learning from closed institution information network to open environment?

- Technological innovations have provided new possibilities that have transformed the teaching learning process. Array of projection systems with an Internet connection have provided a window to open environment.
- The Wi-Fi connectivity, the Webinars and tele-medicine facilities have broadened the scope for open environment teaching and learning.
- The teaching-learning material in the form of power point presentations in CDs and DVDs is available for students.
- The access to health centers and other institutes including industries has also helped students learn real life situation.
- Educational CDs are available for display in studio located in library premises.
- MEd-RC facilities are for open-access by students.
- The faculty members are encouraged to prepare their course content in electronic format so as to use the materials in an open environment.
- Transforming teaching pedagogy and methodology to open environment has provided a changed frame work of interactive teaching and learning supported by technology.
- The public-private partnership of University with state government of Karnataka has envisioned the transfer of teaching and learning to open environment.
- Teachers are also invited to address the public health care providers on various health related issues of community.

4.5 Maintenance of Campus Facilities**4.5.1 Does the institution have an estate office / designated officer for overseeing the maintenance of buildings, class-rooms and laboratories ? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.**

Yes

Experienced and dedicated estate officer along with his team have been executing all maintenance and construction activities in the campus, supervising the work being carried out and have been convening overall maintenance and development activities.

- The institution has separate Civil Engineering Department headed by Executive Engineer and assisted by maintenance and electrical engineers, supervisors, estate officer and other officers for overseeing the maintenance of buildings, class-rooms and laboratories.
- Sign boards and road maps are depicted.
- Model of the hospital is exhibited at the entrance lobby of the hospital.
- CCTV cameras are fixed at all places.
- Street lighting with underground wiring provides a good ambience.
- Landscape LED lighting for beautification of college ambience.
- Separate horticulture department is functional.
- Clean, well maintained campus roads with pavers are built.
- Well maintained gardens and lawns with musical fountain are provided.
- 24x7 securities at all the entry points and prime areas.
- Waste disposal demonstration / training is organized in the campus and is religiously followed by everyone staying in the campus.
- Campus is vehicle free. Only battery operated cars are used within campus for transportation.
- Fire extinguishers are adequately provided.

4.5.2 How are the infrastructure facilities, services and equipments maintained ? Give details

Safe work practices adopted by all teaching and non-teaching staff and students have helped to maintain the infrastructure facilities, services and equipments. This has optimized equipment performance, life and energy reduction.

- The University has a separate Maintenance Department and is headed by qualified civil and electrical engineers. This department has recruited plumbers, electricians, carpenters, etc. for regular maintenance.
- The work of sweeping and cleaning of all the buildings is done by outsourcing.
- Maintenance of the equipments and computers is done through Annual Maintenance Contract (AMC). The major maintenance, if any, is done by engaging appropriate agency.
- Lawns and gardens are maintained by civil engineering units and trained gardeners of the colleges and hospital.

- Workshop in the hospital is equipped with lathe machine and welding machine which helps to maintain the hospital furniture and equipments.
- Bio-medical engineering department maintains the electric/electronic equipments and other gadgets.
- Teaching staff is allotted separate parking space for two wheeler and four wheeler in the campus.
- CCTVs have provided added security and assist in administration.
- Every Friday afternoon (3PM-5PM) is designated for cleanliness drive under **Swachcha Bharat Abhiyan**.

4.5.3 Has the institution insured its equipments and buildings?

Yes

Since the inception, all the buildings in the campus are insured as per regulations of the civil authorities.

- The Engineering Departments ensures that all the buildings are properly insured against any disasters.
- Fire safety measures are in place.
- All the major equipments in various labs and departments are also managed under annual maintenance contract (AMC).
- The firefighting drills are performed regularly in the campus

Any other information regarding Infrastructure and Learning Resources which the institution would like to include.

The University has provided following facilities for the use of stakeholders

- International standard Convention center
- International standard swimming pool
- Venu-Dhwani community radio station in the campus
- Canteens in the campus for benefit of patients and students
- Food Court
- Three Guest houses in the campus
- Co-operative stores
- Banks and ATM's in all campuses
- Post office

- Bakery
- Laundry shop
- Beauty parlour
- Men's saloon
- Book shop
- Gymnasium in girls and boys hostels
- Indoor and outdoor stadia.
- Beautiful walking track
- Musical fountain and gardens
- Coffee shops (4)
- Parking zones for four wheelers and two wheelers
- Herbal gardens

CRITERION V

STUDENT SUPPORT AND PROGRESSION



CRITERION V : STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the institution have a system for student support and mentoring? If yes, what are its structural and functional features?

Yes

- The institution has a well structured tutor ward system for student support and mentoring. The mentorship is completely managed by the faculty of the college. Each student is allotted a mentor during the first year of admission to the UG course, which continues till the completion of course. Each mentor shall have a maximum of 15 students (mentees). Postgraduates are mentored by their respective guides.
- The mentors report to the faculty in-charge of mentorship program about their meetings with the students. The students appraise their mentors with regard to their curricular and extracurricular activities on a quarterly basis. The mentors keep in contact with their parents and guardians whenever necessary. Issues of personal nature are also addressed by the mentors.
- Senior students also act as mentors for junior students.
- Director, Student Welfare of University through faculty in-charge of curricular and co-curricular activities regularly monitors student related activities.

Mentoring System

- The mentors meet the mentees regularly, record the proceedings and counsel them.
- The mentors update the mentee's parents directly or through the principal about the progress of the mentees.

Aspects of Mentor's Review of His / Her Mentees

- **Attendance**
The mentors monitor the attendance of the mentees. The attendance in class, clinics, laboratory and practicals is monitored periodically. Mentors advise and take necessary follow-up actions with regard to students.

- **Academic matters**

The mentors also address the academic matters of mentees dealing with previous academic performance, internal assessment marks, semester/annual results and remedial classes, if necessary. The mentor interacts with the mentees who have scored less in their internals and advises them to improve their performance. Parents /guardians are informed about the performance of their ward.

- **Other areas of care**

The mentors also look into behavioral and discipline matters, health and overall development of the mentee as well as, extra and co-curricular achievements.

- **Care and Counseling**

The mentor during the periodic review meeting counsels the students. In cases where expert care and counseling is required, the mentor consults the counselor.

- **Personality Development**

The mentors encourage the mentees to develop and channelize their skills and talents through an appropriate forum or activity of the University (sports, extension activities, workshops, conferences, association activities, etc.). These are aimed at the overall development of the personality of the student.

Student support is provided through various committees Viz., Student Council, NSS Units, Anti-Ragging Committee, Career Guidance And Placement Cell, Grievance And Redressal Cell, Women Empowerment Cell, etc.

The functional features are:

- To be compassionate and caring towards students.
- To create a healthy environment for students to nurture their academic talent through constant mentoring.
- To bring down the dropout rate, boost the morale of students by counseling and personal attention throughout the course.
- To create a homely environment free from harassment.
- To enable students in identifying skills, interests and aptitudes.
- To provide information about further course pre-requisites, financial aid, academic planning, entrance examinations, etc.

- To provide information about specific occupations, career planning, conducting a job search, etc.
- Mentorship program is successfully being carried out in all the constituent units and has led to overall development in the academic performance and personality of students.

5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?

Initiation:

The purpose of Academic Mentoring in addition to classroom interaction is to support the professional development of students in their careers and to promote excellence in teaching and learning, research and academic leadership.

Sustenance:

- In addition to academic mentoring, the faculty also prepares the students for the common entrance test conducted for post-graduate and super-speciality programme. They also help the students to prepare for the examinations like ECFMG, *International English Language Testing System* (IELTS), GPAT, *Graduate Record Examinations* (GRE), etc.
- The central library displays information related to employment, training programmes, entrance tests for higher studies. At the library, students access to get information on course syllabus, hand books, teaching schedule, multiple choice question bank, learning materials, co-curricular learning information, model question paper, exam schedule and teacher contact information which are uploaded by faculty.
- Encouraging the students to participate in professional conferences/workshops/seminars. The students are given an opportunity to visit industry, reputed national organizations and research centers to know about the recent trends. The college arranges these visits on regular basis.
- Conduct of field work programmes are directly related to course work.
- The students are trained in clinical skill laboratory, museums, teaching hospitals and peripheral health centers.

Enhancement:

- Participation in various community outreach programmes through NSS, Indian Pharmaceutical Association Students Federation (IPASF),

SNA (Student Nurses Association), Association of Indian Universities (AIU) sponsored activities and Youth Red Cross enhance the quality of social service undertaken by the University. All the students are encouraged to become members of various student organizations through which they are exposed to the community service.

- The students of the undergraduate level are encouraged to carry out the research projects during their course in order to motivate them for research. The interns and PG's are given short projects to develop research culture and help them to prepare for higher studies.

5.1.3 Does the institution have any personal enhancement and development schemes such as career counseling, soft skills development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.

Yes

- Career Counseling Cell is established in all constituent units and is functional with campus interview and recruitment process.
- The main emphasis of the Career Guidance Cell is on the processes of career development viz, soft skills, career awareness, career exploration, career preparation and work experience.
- This Cell conducts workshops, seminars and guest lectures to provide information and resources that help students to make career decisions.
- The Cell also conducts activities on topics like life skills, personality development, communication skills, leadership skill and assertiveness, resume writing, covering letter writing, successful interview techniques, etc.
- One of the staff members is appointed as the Placement Officer, who interacts with industries / corporate trainers to arrange for placement interviews and training in or out of the campus.
- Orientation classes are conducted for career counseling.
- Coaching for postgraduate entrance examination is organized in most of the constituent units. The faculties are involved in the entrance coaching for interns, which help them in the preparation of their PG CET/GPAT examination.
- Orientation to holistic wellbeing is enhanced by programmes like Art of Living, fitness training, yoga, through lectures/demonstrations by eminent personalities and spiritual leaders like Sri Sri Ravishankar and

seers from Ramakrishna Ashram, Naganoor Math, ISKON, Bhramha-Kumaries of Ishwariya Vishwa Vidyalaya, etc.

- The Department Of Alternative Medicine in association with NSS organizes meditation and yoga camps for students. There is a meditation room in the Department Of Alternative Medicine in the hospital.
- Soft skill development is attained by organizing guest lecturers / workshops on interpersonal relationship building, ethical issues and moral values in patient interactions and peer relations. Programs like confidence building and leadership qualities are also being conducted.
- University has increased collaborations with other college training and placement cells that help to share information, sources and expertise.
- “Earn While you Learn” scheme of the University helps in personal enhancement and career development of the students.
- Programs such as “Right Life and Life’s Right” are conducted for spiritual and personality development.
- Self defense training program for girl students has helped in personal enhancement and well being.
- The University has initiated a new program-Diploma in Value Education and Spirituality for the benefit of students.

5.1.4 Does the institution have facilities for psycho-social counseling for students ?

Yes

- The University has appointed a full-time counselor who is involved in psycho-social counseling for students.
- In the orientation program for the new batch of students, an experienced faculty in psychiatry gives a talk on psychological problems of the students and how to face them.
- The mentors perform psycho-social and educational counseling of students. The students with functional / psychiatric disturbances are referred to counselor/psychiatrists.
- Wardens and supervisors in the hostel (Home away from home) also help them with psycho-social issues.
- The Grievance and Redressal Cell is in place to help the students to resolve such kind of problems. University constantly strives to improve the facilities for maintaining and improving psycho-social aspects of students.

5.1.5 Does the institution provide assistance to students for obtaining educational loans from banks and other financial institutions ?

Yes

- The University provides all the necessary assistance to students for obtaining educational loans from banks and other financial institutions, by guiding and helping them with the paper work to facilitate this process. The constituent units provide Educational Expenditure Certificate to the student, which is one of the necessary documents for availing loans.
- Guest lectures are organized on “Banking facilities to students”.
- The institutions regularly impart information regarding various sources that provide scholarships like Merit-cum-Means scholarships scheme, Online applications for minority Scholarships from Government of Karnataka, Minorities Welfare Commission, Scholarships for Student with disabilities from Government of India, GPAT scholarship, etc.
- The University itself has scholarship schemes that provide financial assistance to deserving students.

5.1.6 Does the institution publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?

Yes

- Updated information is posted on the website www.kleuniversity.edu.in of the University.
- The prospectus contains the profile of the University, vision, mission and values of constituent units and hospitals, details regarding various programmes offered, tuition fees, information about the hostel facilities, etc.
- It also has information on the layout of the campus, the colleges, hostels, hospital, library, auditorium, indoor sports complex, outdoor stadium and various amenities available to the students.
- Brief information about the UGAIET and PGAIET is given on university website. Important postal addresses, telephone numbers and the college website address are mentioned.
- The University also publishes a yearly Calendar of Events which contains month-wise yearlong academic and administrative activities of the University.

- University publishes syllabus book of all the programs including the revised syllabus. It provides information to students regarding course offered, rules and regulations and course-wise credit requirements. The teaching hospital publishes news letter namely “Focus” which includes important activities and events of the hospital.
- The University has published “Student Code of Conduct” Handbook which provides information on behavior of students in campus, their rights and responsibilities, disciplinary measures, etc.
- The University publishes Annual Report which has information pertaining to outstanding achievements of the University, awards and recognitions, research activities, infrastructure enhancement, major curricular and extracurricular activities, etc.
- The constituent units publish their annual college magazines such as SANJEEVINI, DISHA, PHARMATABLOID, PERCEPTION, JAWAHAR, NYASSA, INFO PHARMA, KLEAN, FOCUS, etc. which contain information regarding the college activities such as academic achievements, publications, awards in sports, extracurricular and cultural activities.

5.1.7 Specify the type and number of institution scholarships / freeships given to the students during the last four years. Was financial aid given to them on time ? Give details. (in a tabular form)

Initiation:

University has scholarships for UG, PG, Ph.D and super-speciality students. It also provides freeships for SC/ST and girl students. The financial aid is given well before time.

Sustenance:

Year	No. of students	Amount
2010	128	Rs. 27,26,804/-
2011	133	Rs. 68,49,961/-
2012	160	Rs. 64,44,207/-
2013	134	Rs. 86,27,562/-
2014	93	Rs. 32,15,140/-
Total	648	Rs. 2,78,63,674/-

Yes, the institution has provided financial aid on time. The details of scholarships and freeships given to students during the last 4 years are as follows:

- The University has made budgetary provision for scholarship to students.
- There is 25% concession in tuition fees for children of faculty, at both undergraduate and postgraduate level, after 1st year till the end of course.

For full time Ph.D students following is the details of scholarship provision:

Sl. No.	College Name	Amount per month per Research Scholar (Rs.)	Contingency amount per year (Rs.)	Eligibility Criteria
1	J. N. Medical College, Belagavi	30,000/-	30,000/-	MD/MS with 60% marks passed in first attempt or equivalent
2	VK Institute of Dental Sciences, Belagavi	15,000/-	25,000/-	MDS with 60% marks passed in first attempt
3	College of Pharmacy, (GATE/GPAT)	10,000/-	25,000/-	M. Pharm in first class in first attempt. G-PAT or GATE preferred.
4	College of Pharmacy, (non GATE / non GPAT)	8000/-	20,000/-	
5	Ayurveda / Physiotherapy / Nursing	8000/-	20,000/-	PG with first class in first attempt.
6	Inter-disciplinary Area	6000/-	20,000/-	M. Sc. in first class in first attempt

- Research scholarships of Rs. 26,62,000/- have been given to 39 Ph.D scholars in different disciplines in last five years.
- The University has given 132 cash awards for undergraduate and postgraduate students in the last five years for meritorious students amounting to Rs. 77,67,900/-.
- Scholarships are provided for UG students through Social Welfare agencies, DME, private trust in the form of reimbursement of tuition fee. An amount of Rs. 1,84,76,901/- has been availed by 245 students of various disciplines.
- Twenty six UG students have received scholarships from ICMR for research projects (Short-Term Studentship) amounting to Rs. 2,40,000/- (JNMC & VKIDS).

Enhancement:

- The University has given 334 scholarships for SC/ST/OBC students during last 4 years amounting to Rs. 1,48,48,253/-.

- The University has given 93 scholarships for girl students amounting to Rs. 34,34,951/- in the last 4 years.
- Forty awards for talents in NSS / sports and game /cultural activities amounting to Rs. 2,05,000/- in the last 4 years.

5.1.8 What percentage of students receive financial assistance from state government, central government and other national agencies ?

The financial assistance by government and other agencies is not only for those with the highest academic achievements, but also for students of all academic and economic backgrounds.

Since ours is a private Deemed University, we are not entitled for any financial assistance from UGC. However 6.98% of students have received financial assistance from the State Government, Central Government and other national agencies in the last 4 years.

There is increase in number of students receiving financial assistance. There is increase in number of agencies providing financial assistance like AICTE, QIP, Shri Ratan Tata Trust, Mumbai, Social Welfare Offices, SC / ST offices, GPAT, other state government (Goa, Maharashtra).NRI students receive scholarships from their respective countries.

5.1.9 Does the institution have an International Student Cell to attract foreign students and cater to their needs ?

Yes

Initiation:

The University has taken all efforts to provide conducive environment for fruitful exchange of diverse cultures. Students from various countries like USA, Malaysia, UK, Canada, Kenya, Sri Lanka, Nepal and UAE are studying in the University bringing with them their culture and beliefs.

Sustenance:

- The institution has an International Student Cell to attract foreign students and to cater to their needs.
- The Cell caters to their needs for police clearance, money transaction, visa procurement and passport.
- One of the teachers is appointed as the International Students Advisor and he/she acts like a local guardian of these students and helps for accommodation and guidance for travel or any other matter.

- The Advisor keeps complete profile of these students.
- There is NRI student representative in Student Council of the University.
- There are around 330 foreign / NRI students in different units of University.

Enhancement:

- The campus has separate NRI Hostels catering to their specific needs' including mess facilities suiting to their palate.
- A small booklet on “Kannada as a Communication Skill” is also prepared and distributed to these students, which facilitates them to communicate with the patients.

5.1.10 What types of support services are available for

- * **overseas students**
- * **physically challenged / differently-abled students**
- * **SC/ST, OBC and economically weaker sections**
- * **students participating in various competitions/conferences in India and abroad**
- * **health centre, health insurance etc.**
- * **skill development (spoken English, computer literacy, etc.)**
- * **performance enhancement for slow learners.**
- * **exposure of students to other institutions of higher learning / corporate / business houses, etc.**
- * **publication of student magazines, newsletters.**

Initiation:

The University since its inception has adequate support services for various categories and needs of students which includes NRI Cell for overseas students, infrastructure facilities for physically challenged, scholarship for SC/ST, financial grants for participation in competitions, health insurance for students and involvement of students in publication of student magazines, news letter, etc.

Sustenance:

* **Overseas students –**

- Availability of International Student Cell.
- The overseas students are exempted from appearing for entrance examination and they are admitted based on their score / grade in the qualifying examination of their home country; age limit for them is relaxed;

- The University helps them to comply with legal formalities like No Objection Certificate from Ministry of Health and Family Welfare, Ministry of External Affairs, registration with Foreigners Registration Office (FRO), equivalence certificate from AIU, getting residential permit and execution of affidavit.
- Identified Faculty from the University are the Counselors/Advisors and also act like local guardians of these students. The Advisors keep complete profile of these students.
- These students are taught regional language so as to help them converse with the patients.
- A remedial coaching in English language, where ever required, is also offered.
- Orientation to the overseas students regarding facilities available in the campus and off-campus is done regularly.

*** Physically challenged / differently-abled students**

- Special toilets, ramps, lift and separate parking space are available in all the buildings of the University.
- Adjustable dental chairs are provided.
- The library staff helps the physically challenged persons to get the books and journals for them to read in the ground floor library hall. Wheel chairs are also provided to them.

*** SC/ST, OBC and economically weaker sections**

- The SC/ST and economically weaker sections of student have facility of book bank in library.
- Institute provides information/guidance regarding scholarships and concession in the fee structure for SC/ST students.
- SC/ST students are given 10% relaxation in eligibility criteria for admission.
- The Institute provides assistance for economically weaker students to avail educational loans.

*** Students participating in various competitions/conferences in India and abroad**

- Financial assistance and travel grant is provided to students participating in various cultural, sports, NSS and other extracurricular activities. Official leave is granted for these students.

- The staff members accompany the students who participate in various inter-collegiate, state level and national level competitions / conferences.

* **Health centre, health insurance etc. –**

- **Vaidyashree Health Insurance Scheme** is provided by the hospital with all types of healthcare services up to a total of Rs. 60,000/- in one year.
- All students have access to yoga and meditation classes.
- Students are encouraged to enroll for Diploma in Value Education and Spirituality course conducted by the University.
- Separate Gymnasium are provided in boys and girl hostels.
- Swimming pool of international standard is available for students..
- Facilities for indoor and outdoor sports are provided.

* **Skill development (spoken English, computer literacy, etc.)**

- Workshops and regular classes are conducted for skill development
- The ICT facility of the campus is available to students for acquiring basic computer knowledge.
- A part-time teacher is appointed for spoken English, Kannada and computer literacy.

* **Performance enhancement for slow learners.**

- The institution has established a mechanism to identify slow learners based on the results of their first internal assessment, following which they are counseled regarding their academic performance and guided for improvement of the same.
- Remedial classes (Theory and Practicals) are held for slow learners after working hours.
- Assignments are given for performance enhancement.
- Individualized attention by the faculty for slow learners is provided, as and when needed.
- Small group discussions and question-answer sessions are conducted.
- Question papers of previous years are discussed to help students improve their performance.

*** Exposure of students to other institutions of higher learning/ corporate / business houses, etc.**

- Students are posted /deputed to institutions of higher learning at national and international level especially, for research and enhancement of skill in the concerned disciplines.
- Students are sent to higher learning institutions during internship and PG.

*** Publication of student magazines, newsletters.**

- Every constituent college publishes its annual student magazine and newsletters. These provide an excellent opportunity to the students to express their creativity and literary talents.
- The magazines include scientific articles, social messages, poems, phrases, short stories, photographs and annual report of the Kannada Balaga and jokes by students.
- The names of few of the magazines published by students are Disha, Sanjeevini, Infopharma, Pharmatabloid, Nyassa, Sanskriti, Jawahar, Prathiba, etc.

Enhancement:

- The quality of students is enhanced by providing single window admission process, well-furnished NRI hostel, motivation for publishing articles, newsletters, wall magazines and barrier-free access to various facilities in the campus for physically challenged.

5.1.11 Does the institution provide guidance and/or conduct coaching classes for students appearing for competitive examinations (such as USMLE, PLAB, GPAT, NCLEX, CGFNS, IELTS)? If yes, what is the outcome ?

Yes

Career Guidance Cell And Placement Cell of the University have been actively involved in providing guidance to students for appearing at competitive examinations in different disciplines. The institution provides guidance and/or conducts coaching classes for students appearing for competitive examinations like, *National Eligibility Test* (NET) / *State Level Eligibility Test Commission* (SLET) / GPAT, All India PG entrance examinations, etc.

- Special classes are being conducted by faculty with respective subject experts for GPAT examination.

- During the last 4 years, around 114 students have passed GPAT, ECFMG / USMLE, IELTS and NET/SLET in the constituent colleges.
- Orientation lectures are conducted by internal and external resource persons for guiding students.
- The Colleges arrange on-campus regular training/coaching facility for PG entrance examinations and access to library facilities.
- The University organizes workshops/guest lectures on various topics like personality development, communication skills and different competitive examinations, like GRE, TOFEL, GPAT, etc.

5.1.12 Mention the policies of the institution for enhancing student participation in sports and extracurricular activities through strategies / schemes such as

- * **additional academic support and academic flexibility in examinations**
- * **special dietary requirements, sports uniform and materials**
- * **any other (specify)**

Initiation:

- The University has established a separate Department of Student's Welfare which monitors the activities of students. It has well-established policies/strategies for enhancing student's participation in sports and extracurricular activities.
- The University constitutes statutory Committees such as, Board of Sports and Physical Culture, Student's Council and Board of Extra Mural Studies with members from all the constituent colleges including students. These committees frame the strategies for student support activities in academics, sports and games and extra-curricular events.

Sustenance:

- * **Additional academic support and academic flexibility in examinations**
 - The students are given special leave for participation in sports and extracurricular activities.
 - Extra classes are conducted for students who have missed classes/ practicals due to their participation in sports and extracurricular activities.
 - Extra weightage is given to students who participate in extracurricular activities.

- Awards/prizes are given for winners in the extracurricular activities. Their names are displayed on the main notice board. Their photographs are printed in the college magazine and the reports of the Council are published in the annual report of the college.

*** Special dietary requirements, sports uniform and materials**

- Sports in-charge of the institute and Director of Physical Education Director appointed by the University advises students regarding the special dietary requirements.
- The University provides sports uniform and material for students participating in college / University / intercollegiate / state / national / international level sports, both for athletic and team events. It also arranges coaching camps prior to the sports events.

*** Any other (specify)**

The institution supports students for participation in NSS, Youth Red Cross activities and for extracurricular activities like National integration camp, NSS Adventure camp, Indian Students Parliament, Republic Day parade, etc.

Enhancement:

- On the occasion of University Foundation Day, students who have excelled at district, state, national and international levels in extracurricular activities are honoured.
- Students are encouraged to participate in AIU events and intercollegiate and inter-University events.
- University hosts inter-collegiate athletic sports meet (HUMBO) every year and students youth festival (TRINITY) every alternate year.

5.1.13 Does the institution have an institutionalized mechanism for student placement? What are the services provided to help students identify job opportunities, prepare themselves for interviews, and develop entrepreneurship skills ?

Yes

Initiation:

The Career Guidance and Placement Cell of University is active and provides appropriate information about the procedures for applying for higher studies and employment.

Sustenance:

- The University constituent units invite companies/ health agencies / hospitals / industries for campus interviews.
- List of meritorious students is sent to different industries to enhance their placement opportunities.
- Job vacancies are displayed regularly on the notice board for benefit of students.
- Recommendation / reference letters to students are processed faster for higher education and placement.
- Letters of enquiry for credential verification of students who go abroad for higher studies or employment are promptly replied to help the students.
- Personality and skill development programmes / workshops, CME and orientation programs are conducted for interns and PG's wherein the issues on setting up a private nursing home, group practice dynamics, rural practice, techniques of successful interview, leadership, etc. are addressed to enhance entrepreneurship skills.
- Students are posted to industries and NGO's for training and many are employed in the same centers after completion of the course.
- Career guidance is also provided through mentors.

Enhancement:

- Institutes conduct regular meets of Alumni Associations which provide a forum for students to interact for career guidance and job placement.
- Specially designed certificate courses are offered which are useful for their day-to-day practice.

5.1.14 How does the institution provide an enriched academic ambience for advanced learners ?**Initiation:**

Enriched academic ambience for advanced learners is provided by honoring them with awards for any outstanding achievement, providing scholarships, extending library facilities, training in research and encouraging participation in scientific meets.

Sustenance:

- Advanced learners are identified and encouraged for participation in state/national/international level conferences, workshops, quiz, debate competitions and scientific paper/poster presentations in conferences.

- They are involved in organization of professional meets, exhibitions, etc.
- They are encouraged to take up external funded projects of ICMR, VGST, SPICE, small community or hospital-based projects.
- They are encouraged to publish scientific research articles in journals and trained for grant and manuscript writing.
- Institute facilitates advanced learners to apply for scholarships by various agencies (Shri Ratan Tata Trust).
- Advanced learners are encouraged to apply for National Summer Research Fellowships provided by Indian Institute of Science (IISc), Indian National Science Academy (INSA) and National Aerospace Standard (NAS).

Enhancement:

- Institute encourages the advanced learners by honoring the students with medals, certificates and cash awards.
- Supports advance learners in preparing for various competitive examinations by giving special coaching.
- Books and valuable literature related to competitive examinations are made available in the library for the benefit of students.

5.1.15 What percentage of students drop-out annually ? Has any study been conducted to ascertain the reasons and take remedial measures?

Dropout rate has been very minimal since the beginning due to well-established strategies for selection and retention of students. Less than 1% of student's dropout annually.

- Random studies have been conducted to find the reasons for student dropout. Generally dropout is due to financial, psychological, personal problems, qualifying in competitive exams and placement in government sector. The College Council and the academic bodies in the University discuss the reasons for dropout and plan strategies to reduce the dropout rate.
- To prevent dropout, remedial classes are conducted, mentorship program and counseling by students' counselor is in place to address grievances of students.
- Regular feedback is sent to the parents on their ward's progress.
- Institutes conduct regular PTA meets to address students' issues to minimize dropout rate.

- The Institute extends support for educational loan and “**Earn while you learn**” Scheme in case of financial problems.
- Strict Anti-ragging measures are in place in the campus which minimize dropout rate.
- Newly admitted students are counseled for their personal and psychological problems, if any, by mentors and student counselor.

5.1.16 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).

Initiation:

The University always encourages companies and organizations for campus interviews by providing necessary support for the employers, as well as, the students.

Sustenance:

- The programmes offered by the University are professional in nature. Therefore majority of graduates from medical and dental courses opt for higher studies, few are self-employed or join government/private sector and the foreign students serve in their countries of origin.
- In case of other programmes (pharmacy, physiotherapy), approximately 30% opt for jobs, 60% for higher PG education and 10% are self-employed.
- 90% of nursing graduates opt for jobs and 10% for higher studies.
- 60% of ayurveda graduates opt for self employment, 30% for higher studies and 10% for government/private sector.
- In medical, dental and nursing colleges placements are assured hence, no need to arrange for campus interviews.
- In pharmacy, physiotherapy and ayurveda interviews are held and so far 229 students have benefitted through campus interviews held by 45 companies as follows:

Sl. No.	Companies who Visited Campus
1.	Themis India Ltd.
2.	Biomex Biotechnique Ltd.
3.	Abott India Ltd.
4.	Eli-Lilly and Company
5.	Suven Life Sciences Ltd., Hyderabad
6.	Themis India Ltd., Vapi

Sl. No.	Companies who Visited Campus
7.	Okas Pvt. Ltd.
8.	KLE's Dr. Prabhakar Kore Charitable Hospital, Belagavi
9.	Laila Neutraceuticals, Vijayawada, Hyderabad.
10.	Orchid Chemicals and Pharmaceuticals Ltd., Chennai.
11.	SCODEWS Health Care Organization, Sirsi.
12.	Dr. Reddy's Laboratories Ltd., Hyderabad
13.	Medopharm, Malur.
14.	Indswift, Bengaluru.
15.	Indegene, Bengaluru
16.	Olive Life Sciences, Bengaluru.
17.	Anglo French Drugs and Industries Ltd., Bengaluru
18.	Elvina Pharmaceuticals Ltd., Dharward
19.	Sun Pharmaceutical Industries, Mumbai.
20.	Alembic Pharmaceuticals, Mumbai
21.	Orchid Pharma, Chennai
22.	Apollo Hospitals Enterprise Limited. Bengaluru
23.	Crystal Pharma Pvt. Ltd., Hubli
24.	Vaatsalya Hospital, Hubballi
25.	Intensa, A division of Alembic Pharmaceuticals Ltd., Vadodra
26.	Nouveau Medicament (P) Ltd., Chennai
27.	Novonordisk India Pvt. Ltd., Bengaluru
28.	HCG NMR Cancer Centre, Hubballi
29.	Health Management & Research Institute, Hubballi
30.	Sundyota Numandis Pharmaceutical Pvt.Ltd., Hubballi
31.	Emcure Pharmaceuticals Ltd.,Pune
32.	Cadila Pharmaceutical Pvt.Ltd., Ahmedabad
33.	XL Health – Medical Coder, Bengaluru
34.	FDC, Proxima Division, Bengaluru
35.	TCS Pvt. Ltd, Bengaluru
36.	Microlabs, Bengaluru
37.	Kemwell, Bengaluru
38.	Himalaya Healthcare
39.	Adrena, Bengaluru
40.	GSK Pharmaceuticals Ltd.
41.	Medeka, Bengaluru
42.	Novartis, Hyderabad
43.	Qi Spine of Areja Group, Mumbai

Enhancement:

- Each year there is an increase in number of students opting for higher studies. Subsequently, they have good opportunities into Govt./private sector, overseas and self-employment.

- There are increased employment opportunities in Govt./private sector, overseas for MPH, MHA and other allied courses.
- The institutes of physiotherapy and nursing have also geared up for increased number of campus interviews by international agencies and reputed hospitals.

5.1.17 Does the institution have a registered Alumni Association ? If yes, what are its activities and contributions to the development of the institution?

Yes

- All the constituent units of the University have registered Alumni Associations.
- The Alumni Association conducts regular alumni meets for undergraduate and postgraduate batches. Alumni meet is held once in a year and global meet is conducted once in 3 years.
- The valuable suggestions and feedback gathered at alumni meets are utilized to implement constructive changes in the institute.
- The alumni have contributed to the development of institution by providing funds, books, instruments, instituting gold medal award for highest marks in different specialties, establishment of faculty recreation club, organizing interaction of alumni entrepreneurs with student aspirants and helped their professional colleagues who are in need financially and emotionally by collecting funds, motivating and interacting with them.
- The alumni share their expertise and skills by giving guest lectures and conducting workshops during the alumni meet.
- The number of alumni registered as members in the alumni association of the constituent units has increased progressively. Till date more than 5543 alumni are registered.
- Institutions have made great effort in establishing good and fair relationships between the existing students and the alumni to support the students for research, job placement, higher education, etc.
- Distinguished alumni are felicitated during the alumni meets to honor their contributions and services to the society.
- The alumni directory is updated.
- Alumni are also involved in conduct of social awareness programs like, blood donation and free health check-up camps.

5.1.18 List a few prominent alumni of the institution

Sl. No.	Name of the Alumni	Position held
1.	Dr. Ashok Pai	Padmashree and B. C. Roy awardee, Chairman State Mental Health Manasa, Shimoga
2.	Late Dr. M. C. Modi	Padmabhushan Awardee, Ophthalmologist, and Social Worker
3.	Mr. Nandan Chandavarkar	Managing Director, Fairdeal Corporation (FDC), Mumbai
4.	Mr. Himankar Baishiya	Director, R&D and F&D, Beijing China Pvt. Ltd., China
5.	Dr. P. F. Kotur	Vice-Chancellor, Sri Devaraj Urs Academy of Higher Education and Research, Kolar
6.	Dr. Satish Jiginni	Former Vice-Chancellor, BLDE University, Vijayapura
7.	Dr. K. Sopimath	Director, Formulation & Development of Drug Delivery, INNO Pharma, New York, USA
8.	Mr. Arun M.S.	Director, Celest Pharma Labs Pvt. Ltd. Bengaluru and Head, Formulation Development and Drug Testing Laboratory, Bioneds, Bengaluru
9.	Mr. V. L. Hambar	Dy. Drugs Controller, Drugs Controller Department, Government of Karnataka, Bengaluru
10.	Dr V. L. Hambar	Deputy Drugs Controller, Karnataka
11.	Dr. G.V. Betageri	Associate Dean, Western University of Health Science, Bethesda, Maryland, USA
12.	Mr. Fenil Shah	Director, Nibin Pharmaceuticals, Ahmedabad, India
13.	Mr. Amar Patel	Director, Lincoln Pharma, Ahmedabad
14.	Dr. Ashwini Hosmani	IAS Officer
15.	Dr. Tejaswi Naik	IAS, Asst. Collector
16.	Dr. Ravindra Shisve	I.P.S. Satara District
17.	Dr. Ramesh Kadam	Dean, DY Patil Medical College, Kolhapur
18.	Dr. Sameer Patil	Dean, Sinhgad Dental College, Pune
19.	Dr. Manjunath B	Registrar, JSS University, Mysore
20.	Dr. Shailesh Kotwadkar	Director, Nagpur Cancer Hospital
21.	Dr. S. Sacchidanand	Former Registrar, RGUHS, Bengaluru
22.	Dr. R.S. Wali	Former Registrar, BLDE University, Vijayapura

Sl. No.	Name of the Alumni	Position held
23.	Dr. Guru Betageri	Associate Dean, Graduate College of Biomedical Sciences, Western University of Health Sciences, California, USA
24.	Dr. Kavita Kaushal (Sharma)	Principal, College of Physiotherapy, Adesh University, Bathinda, Punjab
25.	Mrs. Vaishali Mohite	Principal, Krishna University's INS, Karad, Maharashtra
26.	Mr. Shalmon Chopade	Principal, BLDE University's B. M. Patil College of Nursing, Vijayapura
27.	Mrs. Shyamala Kalani	Vice-President, Technical, Oasis Infotech, Jaipur
28.	Mr. Sandeep Chougule	Managing Director, Mistair Health Care Pvt. Ltd., Kolhapur
29.	Dr. Rahul Hegade	Member, Executive Committee, Dental Council of India, New-Delhi
30.	Dr. Rose	Chief Administrator, Kottayam Hospital, Kerala
31.	Dr. Sumit Yadav	Dental Surgeon (Ph.D) Indiana University, USA.
32.	Dr. Madhur Upadhey	Dental Consultant, University of Connecticut, USA
33.	Dr. Neha Tipnis Karnik	Sports Physiotherapist, Appointed by BCCI and trained in NCA Mysore.
34.	Dr. Danny Pereria	Sports Physiotherapist, Physiotherapist for Senior Goa State of Ranji Cricket team since last 5 years
35.	Dr. Akshay Samant	Sports Physiotherapist, The All India Football Federation, Goa
36.	Dr. Gauri Sabnis	Chief Physical Therapist, Mercer Bucks Orthopedic Centre, New Jersey, USA
37.	Dr. Tarun Chetal	Clinical Senior Physiotherapist, NHS, Tayside Dundee Scotland, United Kingdom
38.	Dr. Praveen A.R.	Research Scientist, Harward University, USA
39.	Dr. M. B. Joshi	Rtd. Deputy Director, AYUSH, Belagavi Zone
40.	Mr. Shivakumar C	Assistant Drugs Controller, Drugs Controller Department, (Gulbarga Circle), Government of Karnataka, Bengaluru

Sl. No.	Name of the Alumni	Position held
41.	Mr. Sudhir Goudar	Head, Group Compliance and Auditing, Asia Pacific at Novartis Pharmaceuticals Pvt. Ltd., Bengaluru
42.	Dr. L. T. Mitagar	Deputy Director, AYUSH, Belagavi Zone
43.	Dr. Shivaram	Dean, AIIMS, Bellur
44.	Dr. G. K. Venkatesh	Director, Institute of Nephro-urology, BMC, Bengaluru
45.	Dr. Srinivas Vanaki	Principal, PM Nadagouda Dental College, Bagalkot
46.	Dr. Anand Shigli	Principal, BVO Dental College, Sangli
47.	Dr. S. I. Tolanur	Principal, Shri Lakshmi Narayana Institute of Medical Sciences, Koodapakkam, Puducherry
48.	Dr. M. B. Sanikop	Principal, Devaraj Urs Medical College, Kolar
49.	Dr. Krishna	Principal, Kuppam Medical College, Kuppam
50.	Dr. Nitesh Bansal	Deputy Director of Physiotherapy, AMITY University, New-Delhi
51.	Dr. S. K. Kankanwadi	Vice President, Clinical Development, Dr Reddy's Laboratory, Cambridge
52.	Mr. Satish Awasthe	Principal, Argani Institute of Nursing Sciences, Jaipur
53.	Dr. Ravi Savadatti	Professor, Principal, SDM College of Physiotherapy, Dharwad, Ex-BOS Member RGUHS Bengaluru
54.	Mr. Tukaram Zagade	Deputy Registrar, Maharashtra State Nursing Council, Mumbai.
55.	Dr. Bhagyashree Burji	Dental Consultant Melbourne, Australia
56.	Dr. Vikram Brar	DDS Dental Consultant, USA
57.	Mr. Rajiv Metri	Senior Staff Nurse, Water Pool London.
58.	Mr. Shivanand Nasipudi	Nurse Consultant, Capgemini, UK
59.	Mr. Vijay Kolhapur	Senior Staff Nurse, Ireland
60.	Dr. K. G. Chandrappa	Member CCIM, New Delhi
61.	Dr. Lata Gowda	Professor, Ross University School of Medicine, Freeport Bahamas
62.	Dr. Nymphaea Makroo	Senior Physiotherapist, NHS, London, England, United Kingdom

Sl. No.	Name of the Alumni	Position held
63.	Dr. Pranav Shivakumar	Instructor, UC Department of Pediatrics, Chinchinatti Children Hospital Research Foundation, Cincinnati, Ohio - 45219 USA.
64.	Mr. Raghuram Rao	General Manager, Q.A, Gland Pharma, Hyderabad
65.	Dr. Pradeep Shetye	Post-Doctor Research Fellow, New York University
66.	Dr. R. I. Anegundi	Scientist, Sai Life Sciences, Pune
67.	Mr. Pradeep Karatgi	Scientist, NDDS, Dr. Reddy's Laboratory, Hyderabad
68.	Dr. Ashish Ahuja	Registrar, Government Medical College, Ludhiana
69.	Dr. Shashank Purwar	In-charge Registrar and HoD Dept. of Microbiology, AIIMS, Bhopal
70.	Dr. Madhav Kittur	Oncosurgeon, UK
71.	Dr. Nitesh Bansal	Associate Professor, G D Goenka University, Gurgaon, Haryana
72.	Dr. Sunil Holkar	Physiotherapist, Sparsh Physiotherapy Clinic, Miraj
73.	Dr. Poonam Hingorani	Clinical Physiotherapist, Mount Elizabeth Hospital, Singapore
74.	Dr. Ajiesh George	Physical Therapist, Henry Ford Health System, Detroit, Michigan
75.	Dr. Karthik Shah	Physical Therapist, South Delta School District, Delta, British Columbia, Canada
76.	Dr. Monika Anush	Physical Therapist, Theradynamics Rehab Management Jersey City, New Jersey, USA
77.	Mr. Shivaraj Katageri	Associate Vice-President, Sai Life Sciences Ltd., Pune
78.	Mr. Fenil Shah	Proprietor, Nibin Pharmaceuticals, Ahmedabad
79.	Mr. Pravin Vekaria	Proprietor, Pravin Govindbhai Ve Sahkar Healthcare, Member of PCI
80.	Dr. K. H. Desai	Research Associate, Michigan University, USA
81.	Mr. Rajesh M. Horaginamani	Senior Manager, Manufacturing Strides WC Somerset, New Jersey, USA
82.	Mr. Ankit Patel	Senior Pharmacist, New York Hospital, USA

Sl. No.	Name of the Alumni	Position held
83.	Mr. S. H. Hiremath	Pharmacist Private Hospital, Muscat
84.	Mr. Deepak Mittal	Zonal Manager, Glaxo Smithkline Beecham
85.	Dr. Salin C. A.	Research Scientist, Pennsylvania Medical College, Philadelphia
86.	Dr. Alok Suchitra Malik	Research Scientist, Pennsylvania Medical College, Philadelphia
87.	Ms. Kajal Chandra Ghosh	Principal, Medical Aseptic Officer, Queen Alexandra Hospital, Portsmouth, Regional Drug Manufacturing Unit, UK
88.	Mr. Kelshikar Vikrant	Clinical Research Analyst, Cognizant Technology India Pvt. Ltd., Mumbai
89.	Mr. Pandya Kavan Rajendrakumar	Production Chemist, Dr. Reddy's Labs Pvt. Ltd., Hyderabad
90.	Mr. Sakhiya Kalpesh Kumar	Manufacturing Chemist, Biodeal Laboratories Pvt. Ltd., Surendranagar
91.	Mr. Sandeep Kumar	Production Officer, Alkem Lab. Ltd., Himachal Pradesh
92.	Mr. Ashish Kumar	Manufacturing Chemist, Medicamen Biotech Ltd. Rajasthan
93.	Mr. Pritish Sarkar	Senior Scientist, Biocon India, Bengaluru
94.	Mr. K. S. Ravindra	Research Scientist, Advenis
95.	Mr. Nithin Choudhary	Deputy Manager, Validations, Biocon, Bengaluru
96.	Mr. Raghu Srinivas	Asst. Manager, IPR, Micro Advanced Research Centre
97.	Mr. Abhinandan Bidari	Staff Nurse, UK
98.	Dr. Indira Kabade	District RCH Officer, Belagavi

5.1.19 In what ways does the institution respond to alumni requirements?

The institute has established a fair relationship with alumni and caters to the requirements of the alumni with minimal correspondence.

The institutions respond to alumni requirements in the following ways:

- Recommendation letters are given to alumni for higher education in Indian and foreign Universities.

- ii) Credential evaluation reports of alumni are sent, as and when required, for job placement and higher studies.
- iii) Facilitates alumni meets and maintains website.
- iv) Extends invitation to distinguished alumni for guest lectures, workshops, conference, etc.
- v) Alumni have free access to library and gymkhana facilities

**5.1.20 Does the institution have a student grievance redressal cell ?
Give details of the nature of grievances reported. How were they redressed ?**

Yes

Initiation:

- The University has set up a Grievances Redressal Cell to redress various grievances of the students. The Committee is composed of Principals of the constituent colleges, executive officer, secretary, senior teachers and Director of Student's Welfare as its members.
- This Committee meets as and when required, and effectively addresses the grievances of the students in relation to personal and academic problems.
- Suggestion boxes are placed in all the constituent colleges to help the students express their grievances.

Sustenance:

- On receipt of the complaint, the Cell investigates and an enquiry is conducted. A fair and impartial redressal mechanism helps to promote a responsive and accountable attitude and cordial relationships.
- Verbal, as well as, written grievances including e-mails related to academics, hostel, food, are addressed by the institutional committee. Issues which cannot be resolved within their purview are further brought to the notice of the higher authorities in the University.
- The University has also provided grievance redressal mechanism for examinations. The grievances of the students related to examination are addressed by providing facilities like re-totalling or verification of marks and giving photocopy of the valued answer script.
- The University administration is participatory, pro-active and student-centric; as such there were no major grievances of the students during last 4 years. However, 83 student grievances were received and solved. The nature of grievances were like provision of additional wash room

for girl students, addition of more number of reference books, uninterrupted broadband internet facility, permission to work in PG laboratories after college hours for research purpose, subscription of additional scientific journals, food problems, hostel problems, etc.

Enhancement:

- The University has appointed Grievance Nodal Officer, Chief warden, supervisors and student counselor, who deal with student's grievances.
- The tutor-ward-system in the constituent colleges also addresses student grievances.
- The University Cell for Women addresses all grievances of the girl students.
- There is 24x7 helpline for girl students.

5.1.21 Does the institution promote a gender-sensitive environment by (i) conducting gender related programs (ii) establishing a cell and mechanism to deal with issues related to sexual harassment? Give details.

Yes

- The institution promotes a gender-sensitive environment by regularly conducting gender-related programs in all its constituent units.
- The University has established University Cell for Women and Sexual Harassment Redressal Cell as per Vishaka guidelines. This cell is very active and plays proactive role by arranging lectures on various issues related to women.
- About 21 gender related programs have been conducted in the constituent colleges in the last 4 years.
- 24x7 helpline for girl students is available in the campus.
Helpline No : 9448998331
- Regular orientation programmes for girl students are also conducted.
- Self-defense training is imparted to girl students.
- University Cell for Women deals with issues related to sexual harassment in the campus and hospital premises if any. It deals with cases of sexual harassment, in a time-bound manner, aiming at ensuring support services to the victimized, termination of the harassment, and appropriate action against the offender.

- The Cell also conducts programs on gender issues as part of International Women's Day, organize guest lectures, awareness rallies, health education programs for women on topics like work place abuse, gender equality, human trafficking, child marriage, female feticide, selected abortion, violence against women, etc.
- The students participate in rallies organized by RESCUE Organization and NSS to promote awareness on gender related issues.

5.1.22 Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases ?

Yes

Initiation:

There is strict code of conduct laid down by the University and the constituent units to prohibit ragging within or outside the college campus (Zero tolerance to ragging).

Sustenance:

Composition of Antiragging Committee is as follows.

Sl. No.	Name	Designation
1	Principal, J N Medical College, Belagavi	President
2	Principal, KLE VK Institute of Dental Sciences, Belagavi	Vice-President
3	Vice-Principal, J N Medical College, Belagavi	Member
4	Principal, KLE College of Pharmacy, Belagavi	Member
5	Principal, KLE Institute of Physiotherapy, Belagavi	Member
6	Principal, KLE Institute of Nursing Sciences, Belagavi	Member
7	Medical Supdt. KLE PK Charitable Hospital, Belagavi	Member
8	Vice-Principal, KLE VK Institute of Dental Sciences, Belagavi	Member
9	Director, Student Welfare, KLEU, Belagavi	Member
10	Co-ordinator, University Cell for Women, KLEU, Belagavi	Member
11	Dr C.S. Sanikop Prof. Dept of Anesthesiology	Member

Sl. No.	Name	Designation
12	Dr S.S. Goudar Prof. & HoD Physiology	Member
13	Dr V.S. Shirol - Prof. of Anatomy	Member
14	Dr Anuradha Patil Prof. of Bio-Chemistry	Member
15	Dr B.S. Manjunathswamy Prof. of Skin & VD	Member
16	Dr Ganga Pilli Prof. Dept. of Pathology	Member
17	Dr S.B. Patil Prof. Dept. of Ophthalmology	Member
18	Local Parent Representative	Member
19	The Police Sub-Inspector APMC Police Station	Member

- Zero tolerance towards ragging.
- As a proactive measure, a student led campaign of awareness against ragging is initiated at the beginning of the academic year.
- No cases of ragging have been reported in the last 4 years, as the University has strict vigilance by the faculty on ragging activities through its Anti-ragging committee and anti-ragging squad. The antiragging squad members make surprise visits to hostels, canteen, library and other places in the campus as anti-ragging measures.
- Antiragging CDs are played on the orientation day for the freshers and senior students as per the UGC guidelines.
- Information regarding central antiragging helpline, which is a toll free number, is given to the students.
- Mobile numbers of Anti-ragging Committee and squad are prominently displayed in the colleges, hostel, canteen and library, so that the students can contact in case of emergency.
- Display boards on the consequences of ragging are put up at prominent places in the campus.
- Hostel blocks are earmarked with strict security arrangements for freshers during the initial 3 months of their study period.
- The students involved in ragging are identified and enquiry is conducted by committee constituted by Vice-Chancellor. Based on the severity, and nature of ragging, action is initiated by the University. Actions include suspension, cancellation of admission, rustication, fine of up to Rs. 50,000/- and there is provision to refer the matter to the legal authorities for penal action.

Enhancement:

- Proctor has been appointed by the University to identify and handle students who have tendency to get involved in ragging.
- Institution obtains affidavit from students and their parents for abstaining from ragging activities based on the guidelines of UGC.
- CCTV camera surveillance and security personnel have been placed at prominent places in the campus to prevent untoward incidences.

5.1.23 How does the institution elicit the cooperation of all its stakeholders to ensure the overall development of its students?**Initiation:**

- The main stakeholders are parents, students, alumni, industries, employers, external academic experts and community.
- The constituent units have well-established Alumni Association, Parent Teacher Association, industrial collaboration, external experts in statutory bodies and public-private partnerships.
- Meetings are held regularly and feedbacks are obtained from the stakeholders. As per the feedback, relevant modifications are done.

Sustenance:

- The stakeholders of the institution are involved as members of various important statutory and non-statutory committees of the University, who actively participate in decision making and overall development of the institution.
- The fruitful suggestions of the parents in the PTA meets contribute to the development of the students. Suggestion boxes have been kept at colleges to obtain suggestions from various stakeholders.
- Parents receive the performance appraisal of their wards by post after every examination.
- Parents of the freshers undergo orientation programme regarding the rules and regulations of the institute through Parent Teacher Association.
- Interaction with the parents is done during the Convocation/Graduation Day.
- Students' Council meetings encourage students to participate actively in the institutional activities.
- Director of Student Welfare along with the students organizes students youth festival (**Trinity**), sports meet (**HUMBO**), literary and cultural events.

- Board of extra-mural studies has student representation.
- Student Council of all the constituent colleges actively participate and organize sports events, cultural activities, annual day functions, celebrations of national days and festivals.
- Regular guest lectures and workshops are conducted by inviting eminent personalities from renowned industries.
- Students are exposed to community health care system through 3 Primary Health Centers and 3 Urban Health Centers, which are under the administrative control of J. N. Medical College through Public Private Partnership.
- Students are exposed to day care services for rehabilitation of patients with mental illness through Public Private Partnership Scheme.
- The public extend their co-operation in the organization of NSS special camps, IPASF, Youth Red Cross activities of institute in the adopted villages.
- A few staff and philanthropists have contributed funds for endowment prizes and scholarships.
- The Alumni members contribute to the development of the institution by delivering guest lectures and also provide research inputs for the UG and PG students, training on specialized instruments and also employment opportunities for the students.
- Alumni members working in industry and academic institutions participate in academic decision-making through their feedback on curriculum and skills to be imbibed into the students to face the competition.
- Industry is another important stakeholder for us. The feedback obtained from the industry on the training of students is very valuable for the University.

Enhancement:

- Syllabus and curriculum are updated and modified regularly based on the feedback obtained from stakeholders.
- Quality of patient-care in teaching hospitals and peripheral health centers has been upgraded based on feedback obtained from the community.
- Campus amenities have been upgraded based on suggestion of the stakeholders.

5.1.24 How does the institution ensure the participation of women students in intra- and inter-institutional sports competitions and cultural activities ? Provide details of sports and cultural activities where such efforts were made.

The University believes in gender equality, hence provides equal facilities and opportunities to women students for participation in intra- and inter-institutional sports and cultural activities.

- The Student Council has equal representation of girl students. This automatically ensures their full participation in all activities. The Co-General Secretary and Co-Secretaries of all committees of the Students' Council are mandatorily girl students.
- The institution encourages equal participation of both male and female in intra- and inter-institutional sports competitions (throw ball, volley ball, basket ball, badminton, lawn tennis, chess, table tennis, athletics, etc) and cultural activities (dance, singing, fashion show, skits, mimes, one-minute-to-fame, etc).
- The University encourages participation of girl students in AIU events, Indian Students parliament, NSS adventure camps, etc.
- The University has a pro-active Women Cell, which ensures participation of women students in sports and cultural activities. They conduct competitions like, painting, rangoli, cooking, flower decoration, vegetable carving, mehendi, etc. wherein girl students participate in large numbers to exhibit their talents.
- Support is extended through provision of travelling allowance, daily allowance, weightage in attendance, and also by taking extra classes.

5.1.25 Does the institution enhance the student learning experience by providing for rotation from the teaching hospital to the community and district hospital during the internship period ?

Yes

Initiation:

Mandatory rotation posting during internship in the community health centers is done based on guidelines of respective regulatory bodies.

Sustenance:

- The learning experience of students during the internship period is enhanced through compulsory posting at primary health centres, urban health centres, satellite centres, and visit to oldage homes, schools for

physically challenged and participation in free health check-up camps in the remote villages.

- Every UG and intern is compulsorily posted at community centers during his/her training period in community medicine, dentistry, physiotherapy, nursing and ayurveda.
- Interns' learning experience is enhanced through participation in activities of NSS, Youth Red Cross, community health check up camps, awareness rallies with NGO's, etc.

Enhancement:

- Rotation posting in community centres helps them gain confidence to manage patients independently develop communication skills, leadership qualities, management skills, etc.
- Community surveys/projects are undertaken to help students understand prevalent diseases and health issues.
- They participate and help in implementation of various national health programmes.
- This community exposure and training during internship helps the students in overall personality development.

5.1.26 Does the institution have immunization policy for its students and staff?

Yes

Immunization facility is available for students and staff under immunization policy of teaching hospital.

- All students and staff are immunized for Hepatitis B infection free of cost at the teaching hospital.
- Ayurvedic Medicine is given to Ayurveda students and staff to boost immunity.
- NRI students are immunized for typhoid.
- Post-exposure prophylaxis is given to students, staff and nursing personnel.
- Incidence of vaccine preventable disease is very minimal due to effective implementation of immunization policy. This minimizes student sickness absenteeism.

5.1.27 Does the institution give thrust on students growth in terms of:

- * **Physical development,**
- * **Emotional control,**
- * **Social dimension and**
- * **Spiritual growth.**

Yes

Initiation:

Thrust on students growth in terms of physical development, emotional control, social dimension and spiritual growth is enhanced through the well-designed curriculum, extracurricular activities, infrastructure facilities, strategies and policies of the institute and its faculty.

Sustenance:*** Physical development**

- The University has appointed Physical Director for the overall physical development of the students. The institution has international standard swimming pool, fully-equipped indoor and outdoor stadium, volley ball and throw ball court, walking track, basket ball courts, lawn tennis courts, meditation hall and gymnasium in the college and hostel premises.
- The University also conducts annual sports meet to facilitate physical fitness of students.
- Practice of yoga, meditation and physical fitness is a part of curriculum

*** Emotional control**

- Guest lectures every year on “Emotional Problems in Students” with emphasis on emotional control are organized during UG and PG orientation programs held for newly admitted students.
- Daily sports activities, practice of yoga and meditation are encouraged in the campus which helps in emotional development of students.
- Student-friendly atmosphere is created in the campus by compassionate staff in colleges and hostels.
- Student counselor, psychiatry department staff, mentors and senior students take care of emotional problems of the students in the colleges and hostels.
- Places for worship/ prayer are provided.

*** Social dimension**

- Institution thrust on social dimension is given by encouraging student's participation in NSS camps, voluntary blood donation, health awareness rallies, medical exhibitions and peace march.

- They are also involved in celebrations of National days and festivals like Republic day, Independence day, Gandhi Jayanthi, Karnataka Rajyotsava, Holi, Navratri, Ganesh Chaturthi festivals, Christmas, Onam, etc.
- To create social awareness among community members regarding social evils and misbeliefs like female feticide, dowry, domestic violence, child abuse, child marriage, child labor, school dropouts, illiteracy, etc. students conduct health education programs, skits and role plays in the villages and urban slums.
- Regular visits to old age homes, orphanages, and destitute homes are organized where in students distribute items of daily use to the needy inmates.
- Students participate in the funeral of unclaimed bodies along with social workers.
- Students promote and participate in organ and body donation campaigns

* **Spiritual growth**

- The institution conducts a series of guest lectures and workshops by spiritual leaders of different faiths, to promote holistic development.
- There are places of worship within the campus, to help students to attain a positive spiritual health.

Enhancement:

- The University has introduced a Diploma course in Value Education and Spirituality.
- Added infrastructure facilities like international standard swimming pool.
- Celebrated 150th birth anniversary of Swami Vivekananda with series of spiritual and emotional development activities for staff and students.
- Encouraged increased participation of students in community oriented programs.
- The University has undertaken **Swachha Bharat Abhiyan** (CLEAN INDIA) by dedicating 2 hours every week for cleaning.

5.2 Student Progression

5.2.1 What is the student strength of the institution for the current academic year? Analyze the Program-wise data and provide the trends (UG to PG, PG to further studies) for the last four years.

The number of students enrolled for different academic programmes during 2014-15 is depicted below:

Programs	Number of Programs	Number of students enrolled (2014-15)
UG	14	836
PG	68	306
DNB	--	NA
Integrated Masters	--	--
Pharm D.	1	78
M.Phil.	NA	NA
Ph.D.	07	28
Certificate	25	38
Diploma	02	39
PG Diploma	21	57
D.M. / M.Ch.	08	12
Sub / Super specialty Fellowship	15	04
Any other (specify)	02	46
Total	163	1444

Program-wise trends (UG to PG, PG to further studies) is as follows:

Name of the program	UG to PG					Total	PG to further studies					Total
	10	11	12	13	14		10	11	12	13	14	
Medical	76	102	113	118	126	535	02	03	07	02	05	19
Dental	28	32	36	34	37	167	0	01	0	02	01	04
Ayurveda	15	17	18	20	24	94	02	02	02	02	0	08
Physiotherapy	16	17	15	18	18	84	0	0	01	0	0	01
Nursing	7	01	2	2	01	13	0	01	01	0	0	02
Pharmacy, Belagavi	53	69	40	65	68	295	01	03	02	03	02	11
Pharmacy, Hubballi	6	15	7	9	16	53	02	01	04	02	01	10
Pharmacy, Bengaluru	6	8	16	9	4	43	1	0	1	1	0	03
Total	207	261	247	275	294	1284	08	11	17	12	09	58

5.2.2 What is the number and percentage of students who appeared / qualified in examinations for Central / State services, Defense, Civil Services, etc.?

- The University encourages students to appear in examinations of Central / State services, Defense, Civil Services by organizing orientation lectures and providing information regarding such examinations through the guidance and placement cell.
- Around 3% of the students have appeared/qualified in examinations for Central/State services, Defense, Civil Services, etc.
- University library has books of various competitive examinations of Central/State services/Defense/ Civil Services that help undergraduate and postgraduate students to prepare for such competitive examinations.
- Institutions subscribe regular employment news bulletins.
- All the advertisements regarding examinations for Central / State services, Defense, Civil Services, etc are displayed on notice boards of colleges and library.

5.2.3 Provide category-wise details regarding the number of post graduate dissertations, Ph.D. and D.Sc. theses submitted/accepted/rejected in the last four years.

Category-wise details of post graduate dissertations, Ph.D. and M.Ch / DM theses submitted/accepted/ rejected in the last 4 years (2010-2013)

Sl. No.	Degree	Number of Dissertations in the last 4 years		
		Submitted	Accepted	Rejected
1	Ph.D	73	72	1
2	PG	1407	1407	0
3	M.Ch/DM	50	50	0

5.2.4 What is the percentage of graduates under AYUSH programs employed in the following?

- * AYUSH departments/Hospitals
- * Multinational companies,
- * Health clubs,
- * Spas,
- * Yoga wellness centers,
- * Yoga studios,
- * Health clubs,
- * Own Yoga clubs/studios?
- * Self employment

The University has Ayurveda undergraduate, postgraduate courses and Ph.D under AYUSH programs. The vision, mission and objective of institute of ayurveda focuses on providing excellent training and practice of Ayurveda which has good potential to provide employment.

The break-up of placement of Ayurveda graduates is as follows:

- * AYUSH departments/Hospitals –23%
 - * Multinational companies – 04%
 - * Health clubs – 1%
 - * Spas – 2%
 - * Yoga wellness centers – 4%
 - * Yoga studios - 3%
 - * Own Yoga clubs/studios –1%
 - * Self employment – 62%
- University College of Ayurveda is renowned college in the country with state-of-art infrastructure facilities like hospital, library, herbal garden and well-experienced and qualified faculty.
 - The curriculum of BAMS and MD/MS Ayurveda programs are well-designed.
 - Several funded research projects, collaborations and publications are its strengths.

5.3 Student Participation and Activities

5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the program calendar and provide details of students' participation.

Initiation:

- The University and its constituent units encourage students to take part in a wide range of activities like sports, cultural and extra-curricular activities to improve their leadership, interpersonal skills, self-confidence and academic knowledge with practical experience.

Sustenance:

- **Range of sports activities available to students:**

Track and field events, team events, indoor games, fun games, etc. These include games like running, relay, shot-put, long jump, high jump, discus throw, javelin throw, swimming (all styles), karate, judo, kabaddi, volley ball, throw ball, cricket, basket ball, foot ball, lawn tennis, table tennis, badminton, carrom, chess, tug of war, etc.

- **Range of cultural activities available to students:**

Rangoli, antakshari, fashion show, T-shirt painting, face painting, drama, duet singing, debate, dandiya dance, pair dancing, folk dance, classical dance, classical vocal and instrumental music, battle of bands, mimes, one-minute-to-fame, etc.

- **Range of extra-curricular activities available to students :**

Essay competition, quiz, debates, extempore, mock press, street plays, participation and conduct of First Aid training camps, Fire fighting training/demonstration.

- NSS and youth red cross wings conduct extra-curricular activities on socially relevant issues, special annual camps in adopted villages, free health check up camps, blood donation, awareness rallies, representation in republic day parade, national integration camps, Indian students parliament, adventure camps, participation in Swachha Bharat Abhiyan.
- The University releases Calendar of Events every year before commencement of new year which includes sports, cultural, literary, extracurricular, NSS programmes of University and its constituent colleges.
- Each constituent unit has its own Calendar of Events for sports, cultural, extracurricular and curricular activities.

No. of students participated in sports

Year	College level	University level	Inter-collegiate level	State level	National level
2010-11	632	1181	296	-	-
2011-12	789	1168	850	10	16
2012-13	787	1196	296	01	22
2013-14	803	1216	961	17	06
Total	3011	3506	2403	28	44

No. of students participated in cultural / literary events

Year	College level	University level	Inter-collegiate level	State level	National level
2010-11	519	356	120	01	-
2011-12	715	361	870	23	02
2012-13	693	376	152	118	101
2013-14	726	94	1130	98	15
Total	2653	1487	2272	240	118

Enhancement:

- The Vice-Chancellor is the member of Governing Council of AIU representing South Zone.
- The University as the member of AIU participates in AIU conducted activities all over India.
- The University conducts inter-collegiate sports meet (Humbo), inter-university students youth festival (Trinity) regularly, which includes sports, literary, cultural and extracurricular activities.
- International standard swimming pool, international standard indoor stadium, synthetic track are available for students.

5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.

The University has always encouraged participations of students in co-curricular, extracurricular and cultural activities for overall development of students. They have won many prizes at university, state and national levels.

Prizes won by students in sports

Year	College level	University level	Inter-collegiate level	State level	National level
2010-11	281	342	35	-	-
2011-12	328	342	210	15	01
2012-13	364	342	14	02	-
2013-14	349	342	226	01	-
Total	1322	1368	485	18	01

Prizes won by students in Cultural / Literary events

Year	College level	University level	Inter-collegiate level	State level
2010-11	169	130	21	01
2011-12	234	19	156	06
2012-13	268	134	28	18
2013-14	240	18	191	20
Total	911	301	396	45

- The enhanced participation of students in all activity is due to motivation and provision of coaching and assistance by the University in the form of travel grant, weightage in attendance, extra classes, sports material, etc. to the participating students.

5.3.3 Does the institution provide incentives for students who participate in national / regional levels in sports and cultural events ?

Yes

- The University has well laid down policies for student support, not only in academics, but also for sports, co-curricular and cultural participation from the beginning.
- Financial assistance that includes travelling, registration fee charges, accommodation, food and uniform expenses is provided to the students representing institution in the extracurricular and sports events organized by others colleges / universities.
- Extra internal examinations, if required, are conducted for such students.
- The winners in the extracurricular activities receive awards / prizes during the college day celebration; their names are displayed on the main notice board at the college main entrance; their photographs are printed in the college magazine and the reports of the Council are published in the annual report of the college.
- On the occasion of University Foundation Day, on 13th April every year, students with district, state, national and international level achievements in extracurricular activities are honored.
- The University supports sports and cultural activities by providing facilities of training from experts.

5.3.4 How does the institution involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the last four academic sessions.

- The Student Councils of all the constituent colleges has Magazine Committee with staff member as magazine-editor and the students as co-editors. Publication of the college magazine is a regular annual activity of the Council. It provides an excellent opportunity to the students to express their creativity and literary talents.
- The faculty motivates and guides students to publish materials like catalogues, wall magazines, college magazine and other material. The institution provides financial and technical support for the same.

Sl. No.	Name of the Institution	Publication material for last four years
1.	J.N. Medical College, Belagavi	Annual students magazine (Jawahar, Pratibha, Nirbhay)
2.	KLE VK Institute of Dental College, Belagavi	Annual students magazine (Sanskriti, Misti, Graffiti, Vimoksha)
3.	KLE Sri B.M. Kankanwadi Ayurveda Mahavidyalaya, Belagavi	Swarnamukhi
4.	KLE Institute of Nursing Sciences, Belagavi	NYASSA once in 2 years
5.	KLE Institute of Physiotherapy, Belagavi	Annual students magazine- DISHA
6.	KLE College of Pharmacy, Belagavi	Annual students magazine- Sanjeevini
7.	KLE College of Pharmacy, Hubballi	Annual students magazine- Infopharma
8.	KLE College of Pharmacy, Bengaluru	Annual students magazine - Interface

- A calendar and an address book of all the graduating students is published by the Student Council and released on the Republic Day and Graduation day, respectively, by medical students which contains creative information and photographs of the students.
- Student news letter “TABLOID” is published by the students of pharmacy.
- In-house monthly magazine is maintained by the pharmacy students. This is a useful compilation of cuttings from the news paper and important information regarding the pharmacy profession, new inventions, medical facts, drug abuse, drug recall or withdrawals.
- Postgraduate students are involved in publication of scientific articles in reputed journals and in writing the proceedings of the conferences and seminars conducted in the institution.
- The activities of students are covered in the reports published by institutions regarding community camps.

5.3.5 Does the institution have a Student Council or any other similar body? Give details on its constitution, activities and funding.

Yes

- Student Council is of the students, by the students and for the students. It is a forum where the students can express their problems and plan a strategic approach for execution of student-centric activities.
- The Student Council consists of elected and nominated student members based on their merit and extracurricular activities.
- It helps the students to solve their problems on various issues like academic, administrative, personal, social and emotional.
- The constituent units of the University have their respective Student Council. It is constituted every year by nomination or election.
- The constitution of the Student Council includes the following members; President, Vice-President, General Secretary, Co-General Secretary, Sport Secretary, Cultural Secretary and members. The members include NSS representative, Ladies representative, Postgraduate representative, Overseas representative and Class representatives.
- There are several committees under Student Council like cultural, literary, magazine, sports, transport, community service, and allied council. The Student Council conducts various activities like, sports, cultural and extracurricular including quiz competitions, exhibitions, debate, etc.
- The Student Council also celebrates festivals like Christmas, Pongal, Diwali, Navaratri, Onam, Holi, etc.
- The University has **Kannada Balaga Association** which celebrates programs like Karnataka Rajyotsava, Ugadi festival, Ganesh Chaturthi, Hasya Sanje, Teacher's day celebration, annual cultural event, etc. every year. "**PRATIBHA**" an annual magazine in Kannada is published every year.
- The activities of the Student Councils are funded by the colleges and University. In last 4 years, an amount of Rs. 45,74,697/- has been sanctioned for activities of student council.

Year	Amount for activities of Student Councils
2010-11	Rs. 3,56,722/-
2011-12	Rs. 15,37,443/-
2012-13	Rs. 3,28,293/-
2013-14	Rs. 22,33,058/-
2014-15	Rs. 1,19,181/-
Total	Rs. 45,74,697/-

- The University encourages Student Councils to organize camps, exhibitions, guest lectures for the holistic development of students.

5.3.6 Give details of various academic and administrative bodies that have student representatives in them. Also provide details of their activities.

- The Students are members of various academic and administrative bodies at college level. The student members are active and provide valuable suggestions for conducting various activities. They are members of Student Council, hostel, cooperative society, anti-ragging, transport, mess, research and library committee.
- The administrative bodies that have student representatives at the University/Institutional level are, IQAC Committee, NSS Board, Board of Sports & Physical Culture, Board of Extra-mural Studies, Information Bureau, Board of Employment & Placement Cell, Students Council and Anti-ragging Committee.
- Students participate and provide suggestions in meetings of various academic and administrative bodies.
- They conduct activities like sensitization programmes on ragging, orientation program for fresher's, arranging activities through Placement and Career Guidance Cell, organizing various activities for NSS, planning and preparation of Calendar of Events for sports and cultural activities.
- The involvement of students in the academic and administrative bodies of the University has lead to enhancement of teaching-learning including curricular reforms, research and promotion of student-centric activities.

Any other information regarding Student Support and Progression which the institution would like to include.

- **Vaidyashree Health Insurance Scheme** is provided to the students by KLE Health care.
- The University has published book on “**Student Code of Conduct**”.
- Value addition certificate programmes in Indian Classical Music, Tabala and Diploma in Value Education and Spirituality are offered.
- Cash prizes to the meritorious student are given every year.
- State-of-art infrastructure facilities for clinical, teaching, learning, research and sports.
- Scholarships for fulltime Ph.D students are sanctioned.
- Scholarships to SC/ST and women students are given.
- Nine NSS units and Youth Red Cross associations are constituted for extension activities.
- “**Earn while you learn scheme**” for students.
- Enhanced clinical exposure is available at primary health centers, urban health centers, satellite centers, industries, old age homes, sports centers, schools for disabled children, etc.
- Mentorship programme provides counseling and guidance to the students.
- Teaching Kannada to non-Kannada speaking students in order to facilitate interaction with local community.

CRITERION VI

**GOVERNANCE, LEADERSHIP
AND MANAGEMENT**



CRITERION VI:

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the Vision and the Mission of the institution

The University made its humble beginning with a clear vision and mission in mind and as guided by vision and mission of the sponsoring society with the sole aim of imparting quality education.

Vision:

“To be an outstanding University of excellence ever in pursuit of newer horizons to build self-reliant global citizens through its assured quality health science programmes”

Mission:

- “To promote sustainable development of higher education in general and health science education in particular.
- To provide and plan continuously upgraded infrastructure and learning resources required for meaningful teaching-learning process.
- To stimulate and extend the frontiers of knowledge through the faculty development and continuing education programmes.
- To make research a significant activity involving faculty, students and other stakeholders of education.
- To promote university-industry collaborations at regional, national and international levels with other bench marked universities.
- To establish health system for communication among all stakeholders for vision-oriented growth.
- To fulfill the national obligation through Rural Health Mission.
- To become international leader in the highest quality patient care, research, education and public service.
- To become 21st century model for an academic health science and service centre.”

6.1.2 Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, its vision for the future, etc. ?

Yes

The mission statements of the University are to promote sustainable development of higher education, with upgraded infrastructure and learning resources to significantly increase research activity with collaborations and to aid in rural health missions and above all to become a 21st century role model for an academic health science and service center.

- There has been marked increase in the number of academic, research and clinical consultancies provided by the faculty and the constituent units.
- In last four years **Rs. 24.789 crores** have been earned through consultancy.
- The University has conducted many surveys to know the health care needs and outreach programmes to attend the same.
- A total number of 4244 health camps have been conducted in last four years apart from the mega health check up camps and specific treatment camps.
- The University has taken measures to sensitize the students to national and social issues.
- The institutions of the University have successfully established tradition and value of imparting education to the socially and educationally backward regions of North Karnataka. It has spread its services in higher education and health care and broadened its wings globally.
- For nearly a century the sponsoring Society and now, the University has levered upon relentlessly and untiringly to create an order of plenty for all its stakeholders.

6.1.3 How is the leadership involved in

- * **developing E-Governance strategies for the institution ?**
- * **ensuring the organization's management system development, implementation and continuous improvement ?**
- * **interacting with its stakeholders ?**
- * **reinforcing a culture of excellence ?**
- * **identifying organizational needs and striving to fulfill them ?**

The University under the able leadership of its Chancellor and Vice-Chancellor has created very positive environment for its sustained academic and professional growth. The leadership ensures implementation and continuous improvement by active and constructive inputs from various stakeholders to reinforce a culture of excellence.

- * **Developing E-Governance strategies for the institution**

- * The University has state of art facilities for an efficient e- governance, adopting a paperless concept and better connectivity which includes:
 - Wi-Fi campus.
 - Inter and intranet networking and communication system
 - Communication regarding meetings, agenda proceedings, circulars, notifications is primarily through e-mails.
 - On-line application system and procedures for admission
 - User friendly Website

- * **Ensuring the organization's management system development, implementation and continuous improvement.**

- The Vice-Chancellor is the academic and executive officer of the University and he is overall responsible for the working of the University and is accountable to the Chancellor through the Board of Management.
- Various Statutory Bodies of the University function under strict supervision of Hon Vice-Chancellor and Registrar.
- As an academic head of the University, the Vice-Chancellor, co-ordinates with the Principals of the constituent units and Heads of the Departments, faculty members and the students on academic issues. The Calendar of Events prepared for the University is closely monitored by the Vice- Chancellor.

- As an executive officer, the Vice-Chancellor is responsible for internal coordination and monitoring and also interacts with and instructs the Registrar, Controller of Examinations, Finance Officer, Principals and, non-teaching staff on administrative issues. He ensures smooth conduct of all University examinations and timely declaration of results.
- As the Head of the institution, the Vice-Chancellor presides over the meetings of Board of Management, Academic Council, Board of Examinations, Finance Committee, Planning and Monitoring Board, Board of University Teaching and Research. The Vice-Chancellor also interacts with statutory and regulatory bodies and provides the academic leadership to the University.

*** Interacting with its stakeholders.**

- The Vice-Chancellor has established an excellent system which allows for interaction with its stakeholders. All the stakeholders are appointed as representatives on advisory and consultative Bodies of the University.
- Parent-Teacher Association and Alumni meetings are regularly held in all the constituent units.
- Feedback from stakeholders is systematically analyzed and used for improvisation.
- Teaching and non-teaching staff members are rewarded for excellent work.
- The meritorious students are provided scholarship.

*** Reinforcing a culture of excellence**

- The University strives to establish a culture of excellence in administration, academics, research and other extracurricular activities. Culture of excellence is reinforced by establishing policies, planning strategies for implementation and obtaining feedbacks towards improvement.
- Encouragement and motivation by the leader to excel in academics and research has enabled establishment of state of art research laboratory facilities, incentives for faculty for research activities, promotion based on academic merit, etc.

*** Identifying organizational needs and striving to fulfill them.**

- The Head of organization is a great visionary, who understands the organizational needs of the University and persistently strives to fulfill them to ensure that quality of education is imparted to the students.
- The **Vision. 2020 for** the University reflects on requirements of organizational needs for its overall academic and professional growth along with a strategic approach for achieving the set targets.
- Initiation of E-governance has enhanced better and faster connectivity options.
- The governance fosters a culture of excellence and accountability to continuous quality improvement by rewarding performance of the staff

6.1.4 Were any of the top leadership positions of the institution vacant for more than a year? If so, state the reasons.

No

No positions of the institution have remained vacant for more than a year.

6.1.5 Does the institution ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?

Yes. The meetings are conducted very regularly

- There are 17 Statutory Bodies in the University.
- The statutes are framed for smooth functioning of academic and administrative organizations of the University.
- The educational policy, organization, and governance of the University, as notified by the UGC, are promulgated in these Statutes.
- When acting on such matters, the University relies upon the advice of the members of its Board of Management and the decisions of Board of Management are executed by the Vice-Chancellor.
- All statutory bodies are headed by Vice-Chancellor and assisted by well qualified personnel. All the meetings are conducted in accordance with the annual calendar of events published by the University.

- There has been no meeting which is postponed in last 4 years and only 2% of meetings have been pre-poned due to unavoidable circumstances.

6.1.6 Does the institution promote a culture of participative management? If yes, indicate the levels of participative management

Yes

- The Institution promotes a culture of participative management, from University level to Department levels.
- The policies, regulations and decisions taken by the University involve active and constructive participation of the faculty members, Heads of the Departments, Principals of constituent units who are the representative members of various committees, Academic Council and Boards of the University.
- All statutory and non-statutory committees have representation of stakeholders.
- At the Institutional level, participative management is achieved through College Council, Department Meetings and Monthly Review Meetings that are held regularly.
- Participative management has allowed innovation and knowledge sharing between the employee and the employers, as they are contiguous with the students and the whereabouts of surrounding.

6.1.7 Give details of the academic and administrative leadership provided by the university to its affiliated colleges / constituent units and the support and encouragement given to them to become autonomous.

The University is committed to creating transformational educational experiences at all constituent units so that each institute is principled and recognized at national and international levels.

- As an academic head of the University, the Vice-Chancellor provides leadership to the Principals of the Constituent Units, Heads of the Departments, Faculty and the students on academic matters.
- By the virtue of autonomy vested in all Heads of the Constituent Units, the implementable decisions taken are welcomed and supported.

- The autonomy has provided virtual support for fulfilling the goals and objectives of the University and to enhance academic and professional excellence.

6.1.8 Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges ?

Not applicable, as all the institutes of University are constituent Units and the degree will be conferred by the University.

6.1.9 How does the institution groom leadership at various levels? Give details.

- The University believes that the performance of an institution of higher learning depends on its leadership, effectiveness in creating a pleasant teaching environment for faculty and in providing students with quality education.
- The University is providing opportunities to the staff for exhibiting competencies and acquiring necessary skills to become useful academic- administrators.
- The Chancellor, Vice- Chancellor and Registrar of the University have been able to motivate staff members to undertake quality research and impart quality education to the students.
- The University adopts various strategies to keep staff members abreast with the changing world by conducting various workshops and training programmes through collaborations / MOU's with the nationally and internationally reputed universities / institutions/ agencies. So far, there 120 MoUs and 180 collaborations have been executed.
- The faculty is encouraged for training programs like, FAIMER, LAMP, etc.
- The faculty is involved in administrative posts on a rotation basis at Constituent Units and the University helps them to acquire administrative skills by providing equal opportunities at various levels.
- Grooming of leadership at various levels has definitely improved the efficiency and effectiveness in the organization.

6.1.10 Has the institution evolved a knowledge management strategy which encompasses the following aspects such as access to

- * **Information Technology,**
- * **National Knowledge Network (NKN),**
- * **Data Bank,**
- * **Other open access resources along with effective intranet facilities with unrestricted access to learners.**

If yes, give details.

Yes

Initiation :

- The excellent infrastructure facility with digital library, Wi-Fi facility has always been a hub for all the faculty and students to have access to global resources.
- High speed data communication network is available to facilitate knowledge sharing and collaborative research.
- Library is equipped with data repository facilities which are accessible across the campus. These are organized in a way that facilitates local or remote information retrieval.

Sustenance:

The University strives hard for the management of people, process and technology.

* **Information Technology**

The University believes in use of IT technology for academics and administration. It has definite budgetary allocation, human resources and has imbibed IT technology in infrastructure.

* **National Knowledge Network (NKN)**

- The institutions avail the National Knowledge Network (NKN) connectivity.
- Service window is open from 10 hrs to 18 hrs on all working days.

Generic Services:

Internet, Intranet, Network Management Views, e-Mail, messaging Gateways, Caching Gateways, Domain Name System, Webhosting, Voice over IP, Multipoint Control Unit (MCU) Services, Video Portals, SMS Gateway, Co- Location Services, Video Streaming etc are available.

Community Services:

Shared Storage, e-Mail List Software Application (LISTSERV), Authentication Service, Session Initiation Protocol (SIP), Collaboration Service, Content Delivery Service, International Collaborations with EU-India Grid, Global Ring, Network for Advanced Applications Development (GLORIAD), etc.

Special Services:

Virtual Private Network Stitching Services [VPN@L2 (Virtual Private Wire Service / Virtual Private LAN Service), VPN@L3] etc.

* **Data Bank**

- The University has developed an indigenous and a tailor made data base system to bank all vital information pertaining to students and human resource.

* **Other open access resources along with effective intranet facilities with unrestricted access to learners.**

Round the clock free access to internet facilities through structured and Wi-Fi networks

Enhancement:

Documentation of explicit and tacit knowledge available with the senior and learned faculty members has greatly improved the activities at department levels and at University level.

6.1.11 How are the following values reflected in the functioning of the institution?

- * **Contributing to National development**
- * **Fostering global competencies among students**
- * **Inculcating a sound value system among students**
- * **Promoting use of technology**
- * **Quest for excellence**

The University along with its academic, non academic and administrative departments has been striving hard to review the national development programmes and inculcate them into the health care curriculum.

- The students are made aware of the catalytic impact, leverage and other attributes of such activities. The University is shouldering the responsibilities to achieve goals and objectives of national health policies. Viz. NRHM, Millennium Development Goals, etc.

*** Contributing to National development**

- The University has initiated various programs in which the curriculum focuses on national health programs and research promotion in thrust areas of national importance.
- The University effectively serves the cause of community by providing sound health care through the network of well established hospitals, 3 primary health centers and 3 urban health centers.
- Total of 90 / 244 primary health center areas of Belagavi(51/142), Bagalkote (10/42) and Vijayapura (29/60) districts covering a population of 1,883,445 residing in 827 villages are covered in the community health research projects.
- Under Smile Train project scheme 1935 children with cleft lip and palate have been treated which has brought smiles on the faces of these children. An amount of Rs. 2,25,81,000 has been received for Smile Train project so far.
- The hospital offers health insurance schemes of State Government of Karnataka like, Balasanjeevini, Arogya Bhagya, Suvarna Arogya Chaitanya and Vajapayee Arogya shree.
- The University has adopted areas to maintain cleanliness and hygiene in and around the city to uphold the national theme “**Swachha Bharat, Swastha Bharat**”. All students and employees are engaging themselves for this work 2 hours every week for the same.

*** Fostering global competencies among students**

- The curriculum is designed to meet the global standards of health education.
- Community oriented research of global standard is undertaken by University Research Foundation.
- Teaching-learning process is enhanced by use of ICT.
- Students are encouraged to participate in national and international level conferences and make scientific presentations. Many of them have won awards
- University’s policies and curriculum have fostered all our alumni to occupy various prominent positions across the globe.

*** Inculcating a sound value system among students**

- The University offers various value added programs like Value Education and Spirituality.

- The students are encouraged to participate in personality development activities and national integration programs. Motivational speeches by national leaders from different walks of life are organized for students.
- Student mentorship program is effectively implemented.

* **Promoting use of technology**

- The teaching-learning process is enhanced by use of ICT.
- Examination Reforms are introduced.
- The facility of E-learning resources provided.
- E-data base is used in Library
- Smart Class rooms are provided.
- E-learning sources (e-books, e-journal) are available
- The teaching modules (CD's) and interactive learning facilities are made available
- Open access system is introduced
- Computerization of all library records is undertaken and institutional repository is established.

* **Quest for excellence**

- MoUs and collaboration with national and international agencies /Universities are aimed at attaining excellence.
- Publication in high quality journals with high impact factor and citation index such as New England Journal of Medicine, Lancet, Cell, etc. is an asset to the university
- The university encourages faculty for doctoral, post- doctoral degrees and Fellowships to enhance their quality.

6.1.12 Has the institution been indicted / given any adverse reports by National Regulatory bodies? If so, provide details.

No.

The University has not been given any adverse reports by National Regulatory Bodies.

6.1.13 What are the projected budgetary provisions towards teaching, health care services, research, faculty development, etc.?

Initiation :

Significant weightage has been given in budgetary allocation to facilitate and promote excellence in research and education at national level, to recognize the meritorious contributions of individual researchers / teachers and aid their teaching abilities, research and related activities in health care.

Sustenance:

The University has budgetary provision of approximately 50% towards teaching, 30% for health care services, 10% for research and development and 10% for faculty development and staff welfare.

(Rs. In lakhs)					
Particulars	2010-11	2011-12	2012-13	2013-14	2014-15
Research and development	60.00	60.00	75.00	535.00	360.00
Teaching	150.00	500.00	375.00	330.00	362.50
Faculty development	200.00	475.00	420.00	370.00	375.00
Total	410.00	1035.00	870.00	1,235.00	1,097.50

6.2 Strategy Development and Deployment

6.2.1 Does the institution have a perspective plan for development? If yes, what aspects of the following are considered in the development of policies and strategies?

- * Vision and mission
- * Teaching and learning
- * Research and development
- * Community engagement / outreach activities
- * Human resource planning and development
- * Industry interaction
- * Internationalization

Yes

The perspective plan of the University reflects the changing needs of the society and the stakeholders. It is reflecting its vision and mission, aims and objectives in an inclusive manner to project its overall academic vision. The University is conscious that, for a healthy and progressive system of education, blending of both ancient and the modern teaching and learning technology is required.

- The Planning and Monitoring Board prepares the short and long term perspective plan of the University. This involves the starting of new academic programmes, need based programmes and add-on programmes.

* Vision and Mission

Vision-2020 document of the University is in place for immediate, short-term and long-term goals after in-depth consultations. The progress is reviewed periodically by the Vice-Chancellor.

* Teaching and Learning

Vibrant BOS and Academic Council members contribute for academic excellence.

* Research and Development

- The University has constituted a Research and Development Committee headed by a very senior internationally acclaimed academician/ researcher that caters to all spheres of research promotion and development.
- Board of Post Graduate Teaching and Research Committee supervises the research and development activities of the University.

* **Community engagement / outreach activities**

The University is committed to carry out various outreach activities in and around Belagavi district. The different perspective plans for development are overviewed by NSS, Public Health Departments, and University Department of Research, through Public private partnership.

* **Human resource planning and development-**

The University conducts different programmes in collaboration with national agencies like MCI,AICTE and some international agencies for human resource training and development.

* **Industry Interaction**

University being a health science university, encourages collaborations with various health science institutes of national and international repute and also encourages clinical research in collaboration with various pharmaceutical industries.

* **Internationalization**

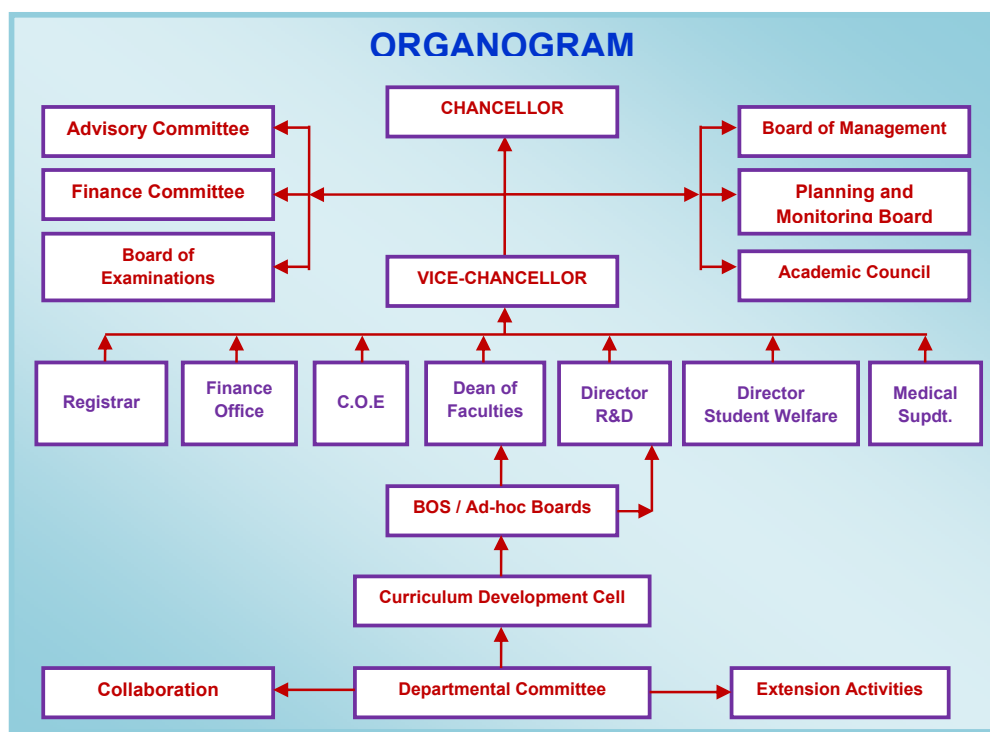
University is in agreement with various international agencies/Universities to seek their expertise for uplifting the stature of university to produce globally acceptable quality graduates and research.

Enhancement :

- Our University has reached the stage in academic and professional development wherein major efforts are made to derive the maximum benefit from assets already created and to ensure that the fruits of change reach all elements of society.
- The University at present, caters to the educational needs of north Karnataka and also other parts of the country.
- The University Research Foundation has made its mark on the global map as a result of its excellent work.
- The faculties of the University have been undertaking research funded by major national and international institutions such as NICHD, WHO, DST, AICTE, CSIR, UGC, ICMR etc. In addition to these, the University also provides research support to the teachers to participate in national and international seminars, conferences, symposia and workshops.

6.2.2 Describe the institution's internal organizational structure (preferably through an organogram) and decision making processes and their effectiveness.

- * Is there a system for auditing health care quality and patient safety? If yes, describe.
- * How often are these review meetings held with the administrative staff?



As per the MoA 2006 of the University, the statutory Authorities of the University are as follows:

Chancellor

Head of the University and presides over the convocation function. He represents the vital link between the University and the sponsoring Society.

Vice-Chancellor

The Vice-Chancellor is the academic and executive officer of the University and he is overall responsible for the working of the university and is accountable to the Chancellor through the Board of Management.

Board of Management

Principal Executive Authority of the University and is responsible to take and implement well considered decisions in relation to academic, administrative and finance related matters.

Academic Council

Principal academic authority of the University and shall control and be responsible for the maintenance of the academic standard of education, teaching and training, inter college and interdepartmental co-ordination, research and collaboration.

Finance Committee

Finance Committee is responsible for managing the income-expenditure of the University and also for the preparation of budget estimates and the accounts of the university audited by the external statutory auditor.

Board of Examinations

Responsible for the smooth conduct of all the university examinations including entrance test, internal assessment, theory and practical examinations, paper setting, evaluation of answer scripts and declaration of the examination results.

Planning and Monitoring Board

It is responsible for preparation of short term and long term perspective plan of the University.

Board of Studies

It is responsible for curriculum design and redesign.

Board of University Research and Teaching

Board of University Research and Teaching is responsible for activities related to research and collaborations.

- * **Is there a system for auditing health care quality and patient safety? If yes, describe.**

Yes.

The University has different quality assurance committees to ensure healthcare needs. The hospitals undertake systematic auditing for health care quality and patient safety by a committee of peers and the reports are placed for consideration of separate Governing Councils of the hospitals.

*** How often are these review meetings held with the administrative staff?**

- The review meetings for the health care quality and safety auditing are conducted once in a month.
- The internal organizational structure has proven to be effective for accomplishing a variety of different institutional goals. This form of structure is represented by a group of people coordinating their activities to achieve a common goal through division of labor, assignment of tasks, supervision structure, and hierarchy of authority.
- The hospital has NABL Accredited Laboratories and is in the process of NABH accreditation, both of which ensure patient safety.

6.2.3 Does the institution conduct regular meetings of its various Authorities and Statutory bodies? Provide details.

Yes

All the Statutory and non- statutory meeting are held as per Almanac prepared by University.

Sl. No.	Meetings	Total in last 4 years
1.	Board of Management /Sub Committee of Board of Management	22
2.	Academic Council/ Standing Committee of the Academic Council	24
3.	Planning & Monitoring Board	9
4.	Research & Recognition Committee	11
5.	Board of Post Graduate Teaching & Research	11
6.	Research Grants Committee	9
7.	Students' Council	9
8.	Finance Committee	10

Major outcomes were approval of-

- Vision 2020 document
- Start new programme
- Appointment of Faculty
- Budget Estimates
- Supplementary demands
- Income Expenditure and Balance sheet and Auditor's Report

- Curriculum design and redesign
- Dates of Examinations held in first half and second
- Examination Results
- The panel of examiners, board of paper setters, moderators
- Conduct of PG and UG AIET
- Purchase of major equipments
- Rate contracts for purchase of Chemicals, glassware, medicines
- International Collaboration

6.2.4 Does the institution have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?

Yes

The Institution has formal policies to ensure quality, that look into the internal operations so as to ensure quality, in compliance with all applicable laws, regulations and appropriate recommendations.

- The University functions well within the provision made in MoA, 2006 and Bye- Law prepared there under- sections 3 of the UGC Act, 1956 vide government of India Notification No. F-9-19/2000-U.3 (A).
- The University has taken extensive measures to translate quality to its various academic and administrative units. The statutory bodies like Board of Management, Academic Council, Planning & Monitoring Board and Boards of Studies always have specific agenda related to quality education.
- The University has established an Internal Quality Assurance Cell with 36 members as stakeholders from the constituent colleges, including external members and students. It conducts quarterly meetings to ensure quality in education and administration.
- Individual constituent units also have Internal Quality Assurance Cell established which looks into quality growth of respective unit.

6.2.5 Does the institution encourage its academic departments to function independently and autonomously and how does it ensure accountability?

Yes

The University does internal and external academic audits to ensure accountability in relation to academic output and utility of infrastructure for academic attainments.

- Academic cum administrative auditing was held on 17th May 2014 by the committee of three Vice-Chancellors of other Universities. The Committee appreciated the bird's eye view presentation of the University. They were appreciative of good co-ordination between University Departments and constituent units, work by ancillary departments, excellent infrastructure, social responsibilities and all-round efforts made by everyone. The Committee also appreciated the efforts of the University and the sponsoring society in strengthening research activities. The suggestions made by the Committee are being implemented.

6.2.6 During the last four years, have there been any instances of court cases filed by and / or against the institution? What were the critical issues and verdicts of the courts on these issues?

There have been no instances of court cases.

6.2.7 How does the institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?

The University and its constituent units have Grievances Redressal Cell for staff and students. It has a committee which regularly reviews the grievances received and works on strategy to resolve them effectively at the earliest in consultation with the heads of the institutions.

There is a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship.

- In accordance with the Bye-laws of MoA there is a Grievance Redressal Cell that has a redressal committee with retired judge.

Composition of Grievance Redressal Committee

Sl. No.	Name of the Members	Designation
1	Shri S.M. Bagali Rtd. District Judge, Belagavi.	Chairman
2	Shri Mahantesh K. Kavatagimath, Member, BoM, KLE Society, Belagavi.	Member
3	Dr. Basavaraj K. Jagajampi Educationalist, Belagavi	Member
4	Shri Chougale B.M Senior Advocate, Belagavi	Member
5	Dr. (Mrs.) Preeti K. Dodwad, Chief Co-ordinator, University Cell for Women, Belagavi	Member
6	Dr. V. D. Patil Registrar, KLE Academy of Higher Education and Research, Belagavi	Member- Convener

- Mentors and Director of Students' Welfare deal with the grievance of students.
- Women Empowerment Cell of the University deals with problems of women employees and girl students.
- 24x7 help line is available for girl students.
- Grievance Redressal Cell deals with grievance of the employees.
- Disciplinary Committee and Unfair Means Committee deals with grievances related to examination.
- To date all constituent units and University have strived to achieve best and most lasting solutions and resolutions. It has provided a fair and efficient process to all stakeholders to present and resolve complaints and grievances arising out of the employment relationship.
- In last four years, 52 grievances from faculty and 91 grievances from students and 13 from non-teaching staff members have been received and redressed.

6.2.8 Does the institution have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

Yes

The institution has a mechanism for analyzing student feedback on institutional performance. The institute appreciates the honest feedbacks given by students and based on the analysis of the feedbacks, the institution works on mechanisms and strategies for further improving performance of the institution.

The method followed includes:

- Students' rating of teachers
- Questionnaire that indicates the strengths and weaknesses of the staff
- Analysis of feedbacks
- Communication of outcome of analysis to concerned staff.
- Feedback from alumni.

The analysis of feedbacks has helped in redesigning the curriculum, cultivating right attitude, punctuality and skills.

6.2.9 Does the institution conduct performance audit of the various departments?

Yes

Performance audit is conducted regularly in order to assess the efficiency and effectiveness of the available resources.

- All Departments have their own standard operating procedures for various types of clinical and technical work.
- The work is supervised by the faculty members to ensure proper patient care.
- The faculty members of the department meet once in a month for discussion of the same and the reports are sent to the principal's office
- Progress of dissertation and other research work are discussed in the dissertation meetings.
- The constituent units have Academic review Committees established.
- "Best Department Award" is given on every Republic Day.

6.2.10 What mechanisms have been evolved by the institution to identify the developmental needs of its affiliated / constituent institutions?

The University is trying to identify the developmental skills based on the conduct of formal and informal assessment of prevailing levels of skills, attitudes and knowledge and current trends. The method followed is the sequence-identify - decide – plan- review.

- Proposals regarding the requirements for the development of their institutions are invited regularly and necessary action is taken immediately to fulfill their development needs.
- Regular meetings with the Principals and Vice-Principals of the constituent units are conducted and developmental strategies are worked out for all stakeholders including non- teaching and support staff.
- The University Purchase Committee is represented by Principals as the members.
- The Purchase Committee of the College includes the Principal as the Chairman, Vice-Principal, two senior faculty members, one external member and Finance officer.
- The College Council of each college is represented by Principal, Vice-Principal and Heads of the Departments. It meets every month and discusses development strategy.
- Monthly review meetings are conducted with University officials in University to work out development strategy.

All meetings are well scheduled with agenda being circulated in advance to all members, following which proceedings are sent with action taken reports.

6.2.11 Does the institution and hospital have their own updated websites ? If so, is the information regarding faculty and their areas of specialization, days of availability, timings, consultation charges available on the website ?

Yes

Since web site can break through the geographical barriers and become accessible, so as to reach wider audience to all those potential customers who have internet access, the University and its constituent units and the hospital have launched their own websites.

- The information regarding faculty and their areas of specialization, days of availability, and timings are available on the website.

- The website also displays the upcoming events, dates of examinations etc.
- Regulatory bodies have made institutional websites mandatory.

It has not only been a forum to showcase our Organization but also a source of information about the University.

6.2.12 What are the feedback mechanisms and documentations to evaluate the outcomes of these exercises ?

- From the inception of the University, all the constituent Units have been obtaining feed backs from all the stakeholders.
- The negative feed backs have helped us to overcome the drawbacks and positive feed backs have helped us to maintain the desirable status in the field of education and patient care.
- Feedback forms are available in the hospital, University, and all constituent units that are to be filled by the employees, students and patients.
- The copies of feedback are systematically documented, analyzed both manually and using computer software and necessary actions are taken.
- The documents of the action taken on feedback are filed regularly.

6.3 Faculty Empowerment Strategies

6.3.1 What efforts have been made to enhance the professional development of teaching and non-teaching staff ? What is the impact of Continuing Professional Development Programs in enhancing the competencies of the university faculty?

The University Department of Education for Health Professional (UDEHP) was established in November 2007 to enhance professional competencies. The activities carried out through a well developed calendar of events have largely helped to acquire knowledge and the application of concepts, processes and skills.

- The UDEHP conducts regular professional development programs throughout the year. The constituent units also have their continued education cell which organizes professional development programs for the faculty of concerned disciplines. The University organizes conferences, workshops, CMEs, Seminars all round the year, to enhance professional development of teaching staff.

- The University conducts programs like personality development, skill enhancement programs, computer training, tally and communication skills enhancement programs for its non-teaching staff once in two months, both in the hospital and in its constituent units.
- All constituent Units have their own Departments for professional enhancement like, Department of Medical Education, Department of Dental Education, Department of Ayurvedic Medical Education, Department of Nursing Education, Department of Physiotherapy Education and Quality Improvement Programme (QIP) Cell in Pharmacy which conduct regular events.
- In last 4 years, UDEHP has conducted **110 programmes** (30- Induction, 40- Orientation, 11-refresher and 29- postgraduate) benefitting **3102** faculty members.
- The Central Library conducts computer courses for non-teaching staff regularly to update their computer skill and knowledge.
- The DOME of JNMC is recognized by MCI as **Nodal Center in Medical Education Technology** to cover 39 institutes under its umbrella.

6.3.2 What is the outcome of the review of various appraisal methods used by the institution? List the important decisions.

- Appraisal methods have been followed since the inception of the University the methods adopted are easily administered, scored and interpreted.

The University appraises the performance of the faculty through:

- Feedback mechanism: The students assess the teacher at the end of every academic year. The outcome is analyzed and communicated to the teachers concerned. The teacher reviews the same for self-improvement.
- The performance of the teacher is also appraised by the University at the time of placement in senior or selection grade and to the post of professor through the committee consisting of external subject experts.
- Self appraisal report of faculty is reviewed and considered for the promotion of faculty.
- The performance assessment method and their analysis have helped systematic evaluation of an individual with respect to his/her performance in the job and individual's potential for development.

- Unique procedure in Medical College named Faculty Academic Performance Evaluation Proforma (FAPEP), is followed, in which, faculty appraisal is done annually & every faculty member has to achieve minimum credit points to get the academic allowance every year.
- Annual confidential review of all the employees is done by the immediate superior officer and reported to the principal.

6.3.3 What are the welfare schemes available for teaching and non-teaching staff ? What percentage of staff have benefitted from these schemes in the last four years ? Give details.

- The institution provides quarters in the campus for the teaching and support staff.
- Teaching and non-teaching staff are provided health card for treatment in hospital. Health insurance scheme up to one lakh for staff and their dependents is in vogue.
- The University has set aside 2.5% of the UG and PG seats in all courses for the children of staff members. Only those who qualify in the entrance test get the benefit and seats are allotted according to their ranks.
- The staff children selected for UG and PG courses get 50% discount in the tuition fee.
- Employees' Co-Operative Society of KLE is established and its membership is optional for all the employees. Subsidized loans upto 1.5 lakhs is available for eligible employee.
- Staff welfare funds are available for non-teaching staff.
- Staff Welfare Fund Scheme for teaching and non-teaching staff of the university & its constituent colleges is introduced. This is a voluntary monthly contribution based scheme, in which Rs. 50,000 is paid as ex-gratia amount from the fund of the scheme to the family in case of any staff member's untimely death during his/her service (irrespective of the service duration).
- Preferential admission to schools run by society as per admission norms for their wards.
- 25% Concession in tuition fees in all KLE institutes for the children of staff.
- Best Teacher Award (Based on student assessment), and Best Non-teaching employee/Support Staff awards with cash incentives are given every year
- Official farewell function is arranged for the staff member of the University, who attains superannuation.

6.3.4 What are the measures taken by the institution for attracting and retaining eminent faculty?**Initiation :**

- Retention of staff members has been a great strength of the University as is evident from the fact that nearly 50% of faculty members are serving for more than 20 years in medical and dental colleges and more than 15 years in other constituent units.
- The sponsoring Society and University have always tried their best to retain the faculty.

Sustenance:

Recruitment of the faculty is done at University level as per apex body norms. Following benefits are extended to employees:-

- Financial benefits on excellent academic performance, the deserving faculty members are sent on deputation for higher studies.
- Incentives for research work
- Incentives for travel towards attendance of scientific programs
- Promotions to higher positions and their involvement in various academic and statutory bodies of University.
- Incentives for clinical services offered in the hospital.
- The medical college has provided installment facility to the faculty members to buy laptops at subsidized price.
- All employees are encouraged to join the membership of KLE Society Employees' Co-operative Society on monthly subscription basis. Members are eligible to get personal loans on reduced interest.
- Fee concession of 50% to all faculty members who pursue Ph.D. programs offered at KLE Academy of Higher Education and Research on part time basis. Financial grants are given to full time research scholars @ Rs. 20,000 per month.
- Financial assistance for prize winning scientific presentations of faculty members at national / international conferences.
- Faculty members are given sabbatical leave (during which seniority is protected).
- Faculty members have access to free Wi-Fi internet access in the campus, as well as, access to digital library & online journals.

- Some faculty members also have availed unlimited access to BSNL Broadband services under the NKN-NME, Govt. of India scheme.
- Free electric chair car services are available within the campus to ply from various points for staff and students.
- Faculty with 10 years' teaching experience, are given Rs. 10,000 one time grant to write books, which will be published on behalf of the University.
- Services are also extended to deserving faculty members who reach age of superannuation up to the age of 70 years.

Enhancement:

- Twenty one faculty members were sent abroad for specialized training.
- 70 faculty members are benefited by subsidized rates for laptops.
- The University has established schemes for Visiting Professor / Professor Emeritus / Best Scientist award / Best young Scientist award
- A crèche "Wee Care" is established by the Swashakti Empowerment Cell for Women, for the benefit of working mothers to take care of under-five children from 8AM to 6PM by paying subsidized subscription fees.

6.3.5 Has the institution conducted a gender audit during the last four years ? If yes, mention a few salient findings.

Yes

The institution has conducted gender audit in the last four years. Based on the outcome of the gender audit, appropriate measures are taken.

- The Women Cell of University and Swashakti Women Empowerment Cell of Society render scope for deliberations and discussions on various gender issues like health and hygiene, legal aid, women empowerment, etc.
- Women counselor is appointed at University level who is involved in gender sensitization programs and University conducts regular programs like entrepreneurship, leadership, legal rights of women, women health and safety, harassment at work place etc.

6.3.6 Does the institution conduct any gender sensitization programs for its faculty ?

Yes

- The institution conducts gender sensitization programs for its faculty.
- Sensitization on health issues, self protection and self motivation are part of routine programs organized by constituent units.
- The faculty members are provided with services of Resident Counselors
- University Cell for Women conducts regular programmes like entrepreneurship, leadership education, legal rights of women, women;s health and safety, harassment at work place, etc.
- University Cell for Women strives to make provision of employment for the women dependents of the non teaching staff.
- International Women's Day is celebrated on March 8th every year.
- Establishment of 'Baby Crèche' and 'Needle and Thread' a sewing area have helped employment of women dependents of teaching and non-teaching staff.

6.3.7 How does the institution train its support staff in better communication skills with patients ?

- The constituent units of the University regularly conduct workshops, guest lectures and short-training programs for communication skills and soft skills which ensure improvised personality development.
- College of Nursing conducts regular programs for nurses on good communication skills with patients.
- Programs for non-teaching staff on communication skills with patients are regularly conducted in hospital every year.
- Empowerment Cell for Women organizes workshops every year for non-teaching staff on spoken English and soft skills.
- Every college conducts at least two programs for the non-teaching staff.
- Computer training program for non-teaching staff is conducted by University.
- UDEHP conducts workshops for non-teaching staff on communication skills.

6.3.8 Whether the research interests of teaching faculty are displayed in the respective departments?

Yes

The research interests of teaching faculty are displayed in the respective departments, as well as, in the Department information section of the college website, which is updated regularly.

Based on the National Health Policy thrust areas in research have been identified by Academic Council and publicized. The faculty members are encouraged to conduct research in these areas.

6.3.9 Do faculty members mentor junior faculty and students ?

Yes

Student Mentorship programme is running successfully since inception of the University. The Unit pattern of working in the hospital gives opportunities for senior faculty to mentor junior faculty.

- The Orientation Programme for New Faculty members is conducted by UDEHP each year in August.
- The senior faculty mentors the junior faculty in enhancement of clinical skills, teaching –learning process and research promotion and publications.
- The International visiting faculty are involved in conducting workshops on Mentorship Programme.
- Well documented student mentorship cards are available in all constituent units.
- The clinical skill Laboratory is optimally used for the benefit of newly recruited staff.

6.3.10 Does the institution offer incentives for faculty empowerment ?

Yes

Performance feedback and performance-based reward systems have been followed since the inception of the University that has motivated employees.

- The teachers acquiring additional Ph.D qualification are given a special allowance of Rs.1000 PM.

- Incentives for holding additional administrative posts are given in the range of Rs.5000 – Rs.20,000 per month.
- The teachers of clinical subjects are given incentives for their services in paid side of hospital.
- The teacher scientist awards are given to appreciate the efforts of teachers in research and development.
- Incentives are given for publication of research papers in peer reviewed journals.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism available to monitor the effective and efficient use of financial resources?

- The finance section is one of the important divisions of the University. The Registrar, Finance Officer, Deputy Registrars / Assistant Registrars and section officers' co-ordinate for effective internal monitoring.
- At the beginning of financial year, the University gets approval for the budget from the Finance Committee and further takes approval from the Board of Management.
- The finance section has been making recommendations for expenditure and control expenditure against budget keeping in view plans and objectives of the University.
- The University has developed the internal monitoring and co-ordination mechanism which facilitates smooth functioning and quick decision making in the university system.
- Purchase Committee monitors and recommends purchases of major equipments in all the constituent units.
- All expenditures are against budgetary allocation (developing infrastructure, maintenance, and salaries for staff, research and other incentives) after the approval of Finance Committee and Board of Management of the University.
- University budget is based on the information about expenditures in the past, considering the current trends & developments and any other factors that may affect expenditure in future.
- The accounts of all the constituent units are quarterly audited by the internal auditor and six monthly by the statutory auditor.

- Audited statements (income-expenditure and balance sheet) and auditor's report are placed before the Finance Committee and Board of management every year for their approval.
- Centralized payment system is practiced.

6.4.2 Does the institution have a mechanism for internal and external audit? Give details.

Yes

- The internal audit assesses the University's finance management, governance and control processes that are operating effectively. The unbiased and independent audit reports of the external auditors have helped to understand the organization's systems and processes.
- University accounts are audited both by the internal and external (statutory) auditors. The accounts of the University are quarterly audited by the internal auditor and six monthly by the statutory auditor. Audited statements (income-expenditure and balance sheet) and auditor's report are placed before the Finance Committee and Board of Management every year for their approval.
- Finance Management System is computerized. Tally accounting software is being used for maintaining accounts by all the constituent units.

6.4.3 Are the institution's accounts audited regularly ? Have there been any audit objections, if so, how were they addressed ?

Yes

The institution's accounts are audited regularly and so far, there are no audit objections.

- The University follows generally accepted accounting system and all the applicable accounting standards issued by the Institute of Chartered Accountants of India and established guidelines by UGC and MHRD.
- The accounts of the University are quarterly audited by the internal auditor and six monthly by the statutory auditors. Audited statements (income-expenditure and balance sheet) and auditor's report are placed before the Finance Committee and BoM every year for its approval.

6.4.4 Provide the audited statement of accounts with details of expenses for academic, research and administrative activities of the last four years.

Initiation :

The University has always been considering academic, research and administrative financial needs and expenses as a basis for designing audit procedures that are appropriate.

Sustenance:

The audited statement of accounts of the last four years
(Amt. in lakhs)

Sl. No.	Year	Academic activities	Research activities	Administrative activities
1	2010-2011	278.97	273.62	6.319.44
2	2011-2012	489.05	553.64	6.477.33
3	2012-2013	317.98	622.66	6.722.83
4	2013-2014	333.50	791.03	7.481.07
Total		1419.50	2240.92	27,000.67

Enhancement :

Increased budgetary provisions and implementation with proper supervision and monitoring are made based on incremental enhancement of academic, research and administrative activities.

6.4.5 Narrate the efforts taken by the institution for resource mobilization.

Initiation :

In addition to tuition fees, University has a standing contribution in the field of research for which a generous funding is received from various national, international, Alumni and philanthropic agencies.

Sustenance:

- Tuition fees is fixed by Fee Fixation Committee (FFC) constituted as directed by Hon. Supreme court. So far, three Fee Fixation Committees have been constituted.

The resources are also mobilized through:

- External foreign funding agencies NIH, WHO, Smile Train, ONCOGRID etc.

- (ii) National funding agencies ICMR, AICTE, DST, FIST, AYUSH, CSIR, NARI, etc.
- (iii) Consultancy and ethical clinical trial of Fixed Dose Combination (FDC) manufactured by different companies.
- (iv) NSS grants from state and central Government
- (v) Health Insurance Schemes of the State Government of Karnataka like Balasanjeevini, Vajapayee Arogyashree, Suvarna Arogyabhagya, Chaitanya scheme, etc.
- (vi) Contribution by philanthropists-sponsors for food in the hospital.
- The operating budget estimates of the financial year are adequate to cover the day-to-day expenses of the University and to maintain the infrastructure and learning resources.
- Distinguished Alumni members periodically contribute books/equipments, etc.
- Support from external volunteers and NGO's to provide their time and resources to support the work of organization.

6.4.6 Is there any provision for the institution to create a corpus fund? If yes, give details.

Yes

The sponsoring society has contributed Rs five crores towards corpus fund initially and then University has accumulated additional funds out of the interest earned on deposits and foreign exchange gains every year.

Sl. No.	Year	Corpus Fund (Amt. in lakhs)
1	2009-2010	244.00
2	2010-2011	474.00
3	2011-2012	413.00
4	2012-2013	466.00
5	2013-2014	579.00

There has been 50% increase in corpus fund from 2009 to 2014.

6.4.7 What are the free / subsidized services provided to the patients in the hospital ?

The University believes in the principles of sponsoring society and strictly adheres to selfless service, Truth, love and sacrifice are being practiced in the state of art teaching hospital, dental and Ayurveda hospitals.

- The teaching hospital of University, Dr. Prabhakar Kore Charitable Hospital, with 1,200 bed strength, provides totally free treatment to the patients from the north Karnataka, South Maharashtra and Goa.
- Admission to general and critical care beds, drugs, treatment, surgery facility including special procedures like, laparoscopy and endoscopy, nursing facility, basic investigations, food, consumables and non-consumables are totally **free** to the patients in charitable hospital.
- The care in Free Wards for basic facilities are entirely free which include various specialties like medicine, surgery, orthopedics, obstetrics & gynaecology, paediatrics, ENT, ophthalmology, respiratory medicine, dermatology and venereology, psychiatry and anaesthesia, etc.
- Out-patient services are free including inter-departmental referrals. The basic investigations and basic drugs are provided free of cost.
- National Health Programmes like Revised National Tuberculosis Control Programme, National Leprosy Eradication Programme, Integrated Counseling and Testing for HIV/AIDS and Sexually Transmitted Infections are free.
- Free Vaccines are given for vaccine preventable diseases under Universal Immunization Programme and Vitamin A supplementation to prevent night blindness for under-five children at under-five clinic of KLE Hospital OPD, as well as, in health centers governed by medical college.
- **Balasanjeevani Scheme:** for 0-6 years' children from BPL families referred from Anganwadis under ICDS Scheme are given free treatment of Rs. 35,000 to 50,000 to eligible children under the scheme sponsored by the Govt. of Karnataka.
- **Suvarna Arogya Chaitanya Karyakrama:** All school children from 1-10th standard are screened and given free referral treatment sponsored by the Govt. of Karnataka.
- **National Blindness Control Programme:** Free cataract screening & cataract extraction with intra-ocular lens implantation under DBCS scheme are provided.

- **Arogya Bhagya Yojane:** Staff of Police Department and their family members are given free treatment sponsored by the Government of Karnataka.
- **Ex-Servicemen Health Services (ECHS) scheme:** Free out-patient and in-patient care services are given to all ex-servicemen and their family members sponsored by the Defense Ministry, Government of India.
- **Vajapayee Arogyashree scheme** is implemented for BPL card holders- super-specialty care in collaboration with Government of Karnataka.
- **Yashaswini Scheme:** Free in-patient care up to Rs. 30,000 for farmers, milk producers and members of Rural Self Help Groups is sponsored by the Yashaswini Autonomous Trust under Government of Karnataka.
- Free treatment facility is extended to “Freedom fighters” and Kargil war soldiers.

Free facilities for patients in Dental hospital:

- Dentures for edentulous patients during free denture weeks, amalgam restorations, tooth extractions, scaling and routine blood examination are provided free of cost throughout the year.

Gratuitous services at Ayurveda :

- ‘**Annadana Scheme**’ [food], and few Panchakarma procedures and ayurvedic medicines are provided.
- All the constituent units conduct free health check up and treatment camps. There has been significant increase in number of patient receiving free / subsidized services every year.

6.4.8 Does the institutions receive fund from philanthropic organizations / individuals towards patient care ? If yes, give details.

Yes

The sponsoring Society has always been blessed to have well wishers and philanthropists, who have nurtured the Society and brought it up to present level of global acclaim. Donors and Alumni have generously and voluntarily supported the noble cause of education which is a mission of the Society.

Unique schemes like, “**Shri Annapurneshwari**” and “**Annadana**” (Free food) are implemented in the teaching hospitals. Under this scheme philanthropists contribute for one day food expense.

**Shri Annapurneshwari Scheme Donor Names
(Rs. 2 Lakhs fixed deposits)**

Sl. No.	Name of the Donor	Date of Display (every year)
1	Shri. R. V. Deshpande	16th March
2	Dr. B. S. Kodkany	9th April
3	The President, Sri Neelakanteshwar Vidyavardhak Society, Tippi Math, Bailhongal	27th May
4	Smt. Shantadevi B. Patil, D/o Dr. Sadanand Patil, JNMC, Belagavi	25th June
5	Dr. Prabhakar Kore Credit Souhard Sahakari Niyamat, Ankale, Chikodi	15th August
6	Dr. Prabhakar Kore 60th Birth Day Felicitation Committee, Head Office, KLE Society	1st August
7	Shri V. M. Katti Trust, Bellad Bagewadi	22nd September
8	Sri Rudrappa Bandre, Raigad, Pen District, Maharashtra	18th October
9	Smt. Mangala Suresh Angadi, Sadashiv Nagar, Belagavi	26th October
10	Shri Naganur Rudrakshimath Shivabasav Nagar, Belagavi	8th December
11	Dr. V. D. Patil, Principal, JNMC, Belagavi	12th December

- The philanthropic approach of the University has led to significant social commitment for the needy patients from neighboring districts and states.
- Substantial amount has been received by the University in the form of donation from patients who have appreciated the hospital services during their stay.

6.4.9 Do patients from other states / abroad come for treatment, reflecting the unique quality health care provided by the institution?

Yes

- The ease of treatment affordability, improvised technology and standards, quality of healthcare providers and varied programs have increased the number of patients coming from other states and foreign countries.
- The KLES Dr. Prabhakar Kore Hospital and MRC attracts patients from different countries for treatment of various diseases, especially, those related to plastic surgery, cardio thoracic & vascular surgery and urological conditions.

NABL accreditations and ongoing NABH activities have reaffirmed the quality services that have been attracting the patients from neighboring states and abroad.

6.5 Internal Quality Assurance System**6.5.1 Does the institution conduct regular academic and administrative audits? If yes, give details.**

Yes

Accreditation and auditing system enables mentoring, advocating implementation of academic and administration reforms in consonance with changes at the international level.

- Academic and administrative auditing was done by a team which comprised of three former Vice-Chancellors of other Universities.
- The Administrative and Academic Audit team appreciated the willingness and drive by institutions and university in introducing IQAC positive systems and practices in their work environment.
- They were also appreciative of the strive to establish high standards and benchmarks in keeping with the institution's vision and mission.
- The disciplined approach in conduct of meetings, maintenance of records and overall academic ambience including research pursued were appreciated.
- In addition to conduct of academic and administrative audit by external peers, the constituent units were also audited by a team of senior faculty constituted by the Vice-Chancellor as a part of **mock inspection**. The recommendations made by this team were placed for consideration and necessary follow up action.

6.5.2 Based on the recommendations of the Academic Audit, what specific follow up measures have been taken by the institution to improve its academic and administrative performance?

As per the recommendations of UGC's 9th plan, Academic and Administrative audit is carried out to evaluate the performance of the University was carried out on 17th May 2014. The auditing was carried out for academic management, academic practices, infrastructure and other facilities and initiatives and supplementation.

- Presentations were made by Vice-Chancellor, Registrar, Principals of constituent units, Controller of Examination, Director of Academic Affairs, Director UDEHP, Co-ordinator Student's welfare, NSS, IQAC, Empowerment Cell for Women and other officials.
- The work carried out by different sections of the University was appreciated.
- Academic and Administrative Auditing is viewed very seriously by the University as it involves administrative, academic and social aspects of teaching, research & extension activities. The suggestions made were taken up for discussion in IQAC and necessary follow-up action was initiated which was personally monitored by the Vice-Chancellor in review meetings held with Principals of constituent units.

6.5.3 Is there a central unit within the institution to review the teaching-learning process in an ongoing manner? Give details of its structure, methodologies of operations and outcome?

Yes

Initiation :

Various Boards under the governance of Directorate of academic affairs monitor the teaching learning processes of constituent units.

Sustenance:

- A separate Directorate of Academic Affairs with a Director and two Assistant Registrars review the teaching-learning process in consultation with constituent units.
- The review meetings are regularly conducted by Director of Academic Affairs, Chairman of Board of Postgraduate Studies and Chairman of Research and Recognition Committee with Principals and Heads of the Departments.

The following Boards of Studies meet regularly in accordance with Calendar of Events.

List of Boards of Studies

Sl. No.	Name of the BOS
1.	BoS for Pre-Clinical Subjects (UG&PG) (FoM)
2.	BoS for Pre and Para-clinical Subjects (UG&PG) (FoA)
3.	BoS for Clinical Subjects (UG&PG) (FoA)
4.	BoS for Para-clinical Subjects (UG&PG) (FoM)
5.	BoS for Medicine & Allied Subjects (UG&PG) (FoM)
6.	BoS for Surgery and Allied Subjects (UG&PG) (FoM)
7.	BoS for ObG, Anaesthesia and Radiology (UG&PG) (FoM)
8.	BoS for Super-specialty Subjects (FoM)
9.	BoS for Physiotherapy Subjects (UG&PG)
10.	BoS for Pharmacy Subjects (PG Subjects, D.Pharm. and Research) (FoP)
11.	BoS for Pharmacy Subjects (UG) (FoP)
12.	BoS for Nursing Science Subjects (UG&PG)
13.	BoS for Pre-clinical Subjects (UG&PG) (FoD)
14.	BoS for Clinical Subjects (UG&PG) (FoD)
15.	Board of Studies for Clinical Research, MPH and Nano-medicine
16.	Board of Inter-disciplinary Studies
17.	BoS for Allied Courses (UG&PG)
18.	Board of Studies for Music

6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes ?

Initiation :

IQAC of University was established on 06-04-2007, in accordance with the guidelines of NAAC with due representation of different stakeholders of higher education.

Sustenance:

- It conducts regular quarterly meetings with specific agenda.
- Format is prepared to assess the work carried out in all constituent units.
- The work done and work planned for next session of all constituent Units and various departments of University are discussed.
- Analysis of the work done by all constituent units is carried out at specific intervals.

- Performance Statements are regularly submitted to the Higher Education Departments, UGC and Ministry of HRD, Government of India.
- Conduct of auditing (green, gender, academic, administrative) are done regularly.
- IQAC has been channelizing the efforts and measures of the colleges towards academic excellence.
- The IQAC is in constant touch with NAAC and it has submitted AQAR

(Annual Quality Assurance Report) to NAAC regularly in last four years, as indicated below.

Year	Date
2010-2011	02/06/2011
2011-2012	30/04/2012 & 25/09/2012
2012-2013	18/05/2013
2013-2014	22/05/2014

- All reports are uploaded on the University's website.

Enhancement:

- Creation of Internal Quality Assurance Cell and its functioning has helped to assimilate the gains made by all constituent units, improved day-to-day work ethics and instituted disciplined organizational culture.
- The healthy competitive environment among the constituent units has lead to marked increased institutional work performance and its output.

6.5.5 How many decisions of the IQAC have been placed before the statutory authorities of the institution for implementation ?

The minutes of Internal Quality Assurance Cell (IQAC) are regularly placed for consideration of Academic Council and Board of Management. Based on observations made, plan for overall quality sustenance and quality improvement in academic and administrative activities of the University was placed before the Board of Management of the University, for consideration and implementation.

Following steps were taken for quality enhancement in functioning of the University:

- (i) Academic and administrative auditing
- (ii) Gender auditing
- (iii) Green audit
- (iv) Academic growth of students
- (v) Mock NAAC inspection and
- (vi) Students Satisfaction Index Determination

6.5.6 Are external members represented in the IQAC? If so, mention the significant contribution made by such members.

Yes. The IQAC of University has four external members.

- The external members are experts in the areas of social work, women empowering industry and commerce.
- All members attend the meetings regularly and contribute to the deliberations in IQAC meetings.
- Their suggestions on student centric activities, social responsibilities on institution, industry-academic interaction, environmental concerns, curriculum revision, teaching and learning process, student progression, infrastructure development and any innovations are taken into consideration by the IQAC.
- Their facilitative and participative suggestions have helped to reduce deficiencies and enhance quality of services offered by the University.

6.5.7 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society ?

Yes

The process of incremental academic growth helps to gauge student's learning. It provides an estimate of individual student's academic achievement level and specific growth function and future prediction.

IQAC with the help of Department of Students Welfare has conducted study on the incremental academic growth of students.

The main findings of the analysis are as below:

- A total number of UG and PG students from disadvantaged sections of society, economically disadvantaged, differently-abled, etc. are 630 and 126 respectively in last four years.
- Study conducted by the university on academic growth of economically disadvantaged students showed an increase in passing percentage from 52.29% in first year to 100% in final year for undergraduate students. For postgraduate students, the study showed 100% performance in examination for all the constituent units.
- Among 45 students who participated in various placement activities organized by the constituent units belonging to disadvantaged sections of society, economically disadvantaged, differently-abled, etc from colleges of pharmacy, ayurveda and nursing, 100% of them have been successfully placed.
- 103 students were identified as slower learners from all the constituent units belonging to disadvantaged sections of society. Remedial classes were conducted for them and their performance improved significantly in the subsequent examination.
- It is a standard track on which University is accountable in terms of students progress and it has shown adequate yearly progress.

6.5.8 Are there effective mechanisms to conduct regular clinical audit of the teaching hospital? Give details.

Yes

Initiation :

Regular Clinical audits are conducted in the hospitals to find quality of patient care and measures of improvement that may need implementation through successive strategic plans. It was developed as a process by which hospital work is reviewed.

Sustenance:

- SOP's and protocols are available for emergencies and treatment procedures.
- Regular faculty meetings of the unit/ departments, mortality meetings and admission discharge review meetings are conducted.
- Regular timetables are prepared department-wise, date wise with student presenter and faculty moderator for all the clinical postings in advance.

- CCTV surveillance cameras have been installed in all the teaching wards, supervised by the Medical Superintendent during morning clinical teaching hours.
- Senior teachers also visit the case discussions done by junior faculty as peer reviewers.
- Academic Coordinators have been appointed for Medicine and Allied Sciences and Surgical Allied Sciences and Super-specialty subjects to oversee the teaching arrangements and to address the student grievances, if any.
- A workshop on patient safety measures was organized by UDEHP on 7th-8th October 2011 in KLE Hospital. All Clinical Departments conduct monthly mortality meetings.
- Clinical Skills Laboratory at the KLE Hospital regularly conducts workshops for doctors, nurses and other para-medical staff as indicated below.

Particulars	2010	2011	2012	2013	2014	Total
Clinical Skills Workshops	06	11	15	45	34	111
Delegates Attended	115	256	342	678	524	1915

Enhancement:

Such a study gives an insight in the practices adopted and lacunae existing in the system. The hospital also has Infection Control Committee and mortality meeting for clinical auditing. Remedial action is initiated by the Governing Council of the hospital.

6.5.9 Has the institution or hospital been accredited by any other national/ international body?

Yes

The accreditations have helped us to meet established quality standards. The accreditations have assured the public, students, parents and other stakeholders as to the quality of an institution and its commitment to high standards through a system of continuous improvement.

- MHRD, Govt. of India has placed the University in **Category 'A'**.
- NBA accreditation of all three Pharmacy colleges.
- NABL accredited laboratories in the charitable hospital.

- NABH accreditation in progress for teaching Hospital, Hospital of Ayurveda and Dental College Hospital.
- The UGC has undertaken thorough review of the performance of the University and appreciated the work.

6.5.10 Does the hospital have institutional and individual insurance schemes to cover indemnity claims?

Yes

Professional indemnity policies are provided in the hospital to facilitate the doctors to work in a stress free environment.

- KLES Dr. Prabhakar Kore Hospital has institutional insurance indemnity scheme which covers the doctors working in the hospital in a comprehensive way.
- In addition, the doctors working in hospital are encouraged to have their own individual indemnity insurance coverage.
- The individual Professional Associations also provides indemnity Insurance coverage.

Any other information regarding Governance, Leadership and Management which the institution would like to include.

- Visionary leadership capable of setting road map for futuristic development of the University.
- Disciplined governance with accountability at all levels.
- Transparent and participative management.
- Healthy practices in resource mobilization.
- Satisfaction index of faculty is high as evident from high retention rate.
- Enthusiastic approach for acquiring global standards in education, health care and research.
- Disciplined finance management of the University and its constituent units.

CRITERION VII

**INNOVATIONS AND
BEST PRACTICES**



CRITERION VII : INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the institution conduct a Green Audit of its campus?

Yes

Initiation :

- The University has identified areas of environmental pollution, energy efficiency and social responsibilities in the campus and has initiated studies in these areas.
- This has helped us to define areas of priority and develop support system in maintaining green environment.

Sustenance:

The University has conducted Green Audit of its campuses and facilities, and regularly formulates action plans to have an eco-friendly ambience.

- Environment friendly campus with good walking tracks.
- Constituent units have well lit and ventilated buildings.
- Green areas and Lung spaces in hospitals and college premises.
- The Institute is making all out efforts in maintaining the campus
- Lush green lawns and herbal drug plants in the campus.
- Sprinklers are used for even and uniform watering of the lawns and reducing the heat in premises.
- Plants procured from the market and Vrakshayurveda (cultivation of medicinal plants) are distributed among the students and staff to promote green cover which helps the environment in the surrounding areas too.
- Maintain the list of flora of the campus and collect information about their medicinal values and the details of same have been stored.

Enhancement:

The methodology developed by specifically designed strategies, has made a commitment to “**Going Green**”. This has improved eco-consciousness, energy conservation and has led to energy efficient measures and technologies for best energy utilization.

7.1.2 What are the initiatives taken by the institution to make the campus eco- friendly?

Initiation :

- The University and the constituent units are situated in lush green, eco friendly campus.
- Various measures have been taken during the constructions for conserving energy, energy metering and monitoring by adopting “green campus” concept.
- Have been making a conscious effort to establish the campus as a ‘**zero waste**’ zone, through a set of scientific and environment-friendly measures.

Sustenance:

Energy conservation

- Water filtration plant for consumption.
- Use of solar system for quarters and hostels.
- Emphasis on paper-less governance.
- The administrative offices, student hostels and staff quarters are fitted with CFL bulbs, T-5 fittings for conservation of energy.
- Most of the major electrical equipments used in the campus are energy efficient.
- All buildings have standard sized windows and doors for good ventilation and lighting.
- All the rooms have instruction boards to switch off fans, lights, and AC and computer terminals when not in use.

Use of renewable energy

- There is a central boiler unit which utilizes energy generated by incineration of hospital waste and which in turn, generates dry and saturated steam for the laundry, C. S. S. D and main kitchen equipments and hot water to all wards and OT's.
- Multiple solar panels for electricity and water heating.

Water harvesting

- Channeling the water from the roof into the ground and maintaining sink pits at different conducive places in the campus for recharging ground water.

- Water recycling unit purifies the waste water, and the same is used in maintenance of the gardens and lawns in the campus.
- NSS unit and community departments use the rain water harvesting model to educate the students and the society regarding rain water harvesting.

Solar panels

- The campus has solar panels at multiple places.
- Solar water heaters are fitted in all the staff quarters and hostels.

Efforts for carbon neutrality

- Plantation of trees regularly. Presently, there are 12,000 number of trees in the campuses.
- The college has vehicle free zones and battery operated buggies for transportation.
- Plantation of trees has increased absorption of carbon di-oxide emitted in the atmosphere. It has provided an effective screen in covering carbon inflow.
- Institutional vehicles undergo regular emission testing.
- Most of the major electrical equipments used in the campus are energy efficient which reduce CO2 emission.
- Observation of “No vehicle day”, pooling of vehicles and encouraging use of public transportation.

Plantation

- Beautiful garden with musical fountain occupying an area of 21 acres.
- Plantation of trees regularly. Presently, there are 12,000 number of trees in the campuses.
- Plantation of trees on birthday of faculty members
- Pharmacy colleges and Ayurvedic college of the University have herbal gardens. Total plants: 6434, genera: 325, species: 434, endangered plants: 14 and rare plants: 67.
- Adequate measures are taken to protect the trees in the surrounding area of the institute.

Bio-hazardous waste management

- Waste disposal system in the hospital is based on the guidelines of NABL/NABH.
- The staff and students are trained in waste disposal management.
- The institutions strictly follow the state government rules for management of bio-hazardous waste.
- The hospital has an incinerator which takes care of the bio-hazardous waste.
- Adequate number of High Efficiency Particulate Absorbant filters (HEPA), exhaust fans and fume hoods are also provided.
- Color coding is done for segregation of waste before disposal. The following is the scheme of waste disposal:

1. Red bag

- Microbiology & biotechnology waste.
- Solid waste.
- Solid (waste generated from disposed items other than the waste sharps such as tubing's catheter, IV sets etc).

2. Yellow Bag

- Human anatomical waste (tissue, organs and parts)
- Animal waste (tissue, organs, body parts, fluid, blood, veterinary waste.)
- Microbiology & biotechnology waste (waste from lab, culture, vaccines, cell cultures of animal & human)
- Solid waste (items contaminated with blood and body fluids, including cotton, dressing soiled plaster casts, lines, bleedings, other materials contaminated with blood).

3. Blue bag

- Waste sharps (needles, syringes, scalpels, blades, glass etc)that may cause puncture and cuts.
- Solid waste (wastes generated from disposable items other than the waste sharps such as tubing's catheter, IV sets etc.).

4. Black Bag

- Discarded medicines and cyto-toxic drugs
- Incineration ash

- Chemical waste (used in production of biological, chemicals used in disinfection, as insecticides etc.)
- Needles are destroyed in needle burner.
- In clinical hematology, biomedical waste generated is segregated and disposed as per institution waste management system.
- In laboratory the chemicals are diluted and then disposed off in the common drainage system.
- All culture plates are autoclaved and then disposed.
- All the color coded bags are sent to central biomedical waste disposable centre of KLE Dr. Prabhakar Kore Hospital & Medical Research Centre Belagavi for final disposal.
- Day to day register is maintained for the same.

E-waste management

The e-toxic waste is managed in following ways :

- Inventory management
- Production-process modification
- Volume reduction- The e-waste (computer,CD's,cables etc) is disposed to certified recyclers/vendor.
- Recovery and reuse.

Effluent treatment and recycling plant

- The institution has effluent treatment and recycling plant.
- Sewage treatment plant of 1000 m³/day capacity is functional in the hospital which helps to utilize the sewage from the hospital using the activated sludge process by extended aeration system. Treated sewage after chlorination is pumped for gardening in hospital complex covering 6 acres and in J. N. Medical College covering 15 acres.
- Vermi compost pits have been set up in the campuses for biodegradable waste.
- Manure generated from organic waste (plants and garden wastes) is utilized.

Recognition / certification for environment friendliness –

Yes.

- The hospital laboratory is NABL accredited and the hospital is under the process of NABH accreditation which itself certifies environment friendliness.
- Pollution control board certification.
- Awards/recognitions for gardens in the campus from the Department of Horticulture, Government of Karnataka.

Any other (specify) –

- Campus is smoke / pollution free
- Mobile free campus for students during office hours
- Encouragement for use of recyclable plastic bags in the campus
- Ban on use of tobacco and tobacco products in the campus
- Encouragement for use of bicycles and battery operated vehicles
- Observation of “No Vehicle Day”, pooling of vehicles and encouraging to use public transportation.
- The institution is promoting social responsibilities and citizenship roles among the students by organizing various programs.
- Pamphlets/educative materials/display boards are provided on protecting environment.
- The institution has made efforts to bring in community orientation through NSS activities by students and extension activities by faculty.

Enhancement:

- The University has adopted e-governance. All circulars and notices are emailed to the concerned to reduce the use of papers.
- Clean campus by adopting “**Swachha Bharat Abiyan**” movement. Every Friday two hours are dedicated for the same.
- Workshops are conducted to educate campus residents regarding organic waste disposal.
- Separate dust bins for segregation and collection of wet and dry waste have been put up in quarters and hostels.
- Waste papers are collected shredded and sent for recycling.
- All the food waste and dry leaves generated in the campus is converted to organic compost in the composting unit located within the campus.

- The campus generates lakhs of liters of waste water each day, which is treated and reused for gardening and other secondary purposes.

7.1.3 How does the institution ensure that robust infection control and radiation safety measures are effectively implemented on campus?

Initiation :

- Infection control and radiation safety measures have been implemented during the construction of hospital buildings.
- The health personnel who are engaged in handling these areas are adequately trained and are knowledgeable regarding the possible risks and attenuate exposures and are provided with necessary gadgets.

Sustenance:

Infection control:

- There is an Infection Control Committee in the hospital. This Committee regularly monitors the sources of infection and undertakes various measures of infection control. Fumigation of Operation Theatres, wards and other clinical areas are done regularly. Hospital has an infection control manual which is periodically updated.
- Universal safety precautions are followed in the laboratories and while handling all patients in the hospitals. Sensitization workshops are arranged for the students and staff.
- Instruments used for examination and treatment are cleaned, disinfected and sterilized at the department level and at central sterilization unit.
- Vaccination of all students and health care workers is compulsory for hepatitis B, TT and against outbreaks.
- Infected and non-infected are treated separately.
- Personal protective equipments (PPE) are used viz. single use disposable gloves, protective eye wear, caps and masks are used, depending on the potential for splash or splatter or exposure to chemicals.
- Surface barriers: light handles and switches are barriered during use and discarded after each patient.
- Pest control measures are taken regularly in the colleges, hospitals, hostel and staff quarters.
- Regular screening of hostel workers, lab technician and staff member is done.
- The water is tested for potability through microbiological assessment.

Radiation safety measures:

- The X-ray rooms, CT and MRI, Gantry rooms, are designed and certified as per the Bhaba Atomic Research Center (BARC) specifications.
- The Radiology Department has adopted guidelines of Atomic Energy Review Board. (AERB).
- The radiologists, technicians and other employees working in the radiation area observe standard safety precautions.
- The extent of radiation is quantified by BARC and appropriate remedial measures are taken and proper certification is obtained.

Enhancement:

Every effort is made to update infection control and radiation safety measures in all aspects.

7.1.4 Has the institution been audited / accredited by any other agency such as NABL, NABH, etc.?

Yes

Initiation :

Since the inception, the organization is striving hard to acclaim supportive, consistent and objective accreditations.

Sustenance:

Apart from being recognized by the respective regulatory bodies of its constituent units,

- The teaching hospital laboratory is accredited by NABL.
- The hospital is in the process of accreditation by NABH.
- Analytical laboratory of Central Research Facility at Ayurveda College is approved by the Department of AYUSH, Government of India.
- The KLE University's Research Unit is recognized as one of the nine global network sites of **NICHD, USA** for Women and Child Health research.
- The Department of Medical Education (DOME) of J. N. Medical College, Belagavi has been recognized as **Regional Centre in Basic Medical Education Technology (MET)** to train the teachers of 15 medical colleges of North Karnataka.
- Institutional Review Board (IRB) [Ethics Committee] of the University is recognized by **Office for Human Research Protections (OHRP)** by

the **U.S Department of Health and Human Services (DHHS)** for research involving human subjects and clinical investigation, regulated by **Food and Drug Administration (FDA), USA**.

- KLE College of Pharmacy, Belagavi is recognized as **National Center for QIP**.
- The Pharmacy colleges are **accredited by NBA**.
- Based on research strength and output of KLE Sri BMK Ayurveda Mahavidyalaya, Belagavi, **CSIR** has recognized and established a collaborative center TRISUTRA – AYURGENOMICS.

Enhancement:

- The University has been placed in **Category ‘A’** by **MHRD, Government of India** and accredited with **‘A’ Grade** by **NAAC**.
- Accreditations have been able to elevate the position of University as a quality organization that informs the stakeholders that our organization is dedicated to excellence in academics, health-care, laboratory practices and addresses all quality aspects.
- J.N. Medical College is recognized by **Ministry of Health and Family Welfare** under Scheme Human Resource Development for Health Resources (DHR) in the subject areas of **Geriatrics** and **Good Laboratory Practices (GLP)**.
- The Department of Medical Education (DOME) is recognized by **Medical Council of India** as **Nodal Centre** for advanced medical education to train teachers of 39 institutions spread over four states.
- The KLE University’s Research Unit has collaborations with **16** international reputed research agencies.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the institution.

Initiation :

The University strives for quality excellence through its unique and innovative practices for faculty, students and health-care.

Sustenance:**Innovations in curricular aspects:**

- 72 new academic programs have been introduced
- Incorporation of OSCE/OSPE as an internal assessment tool
- MCQ's for annual University examination
- Validation of MCQs and updating of MCQ Bank
- ICT and skill lab utilization for implementation of curricular plan.
- Academic calendar

Innovations in teaching learning and evaluation:

- Department of Medical Education of J. N. Medical College is recognized by Medical Council of India as Regional Centre for training teachers in basic Medical Education Technology (MET) from 15 medical colleges of north Karnataka.
- Installation of e-learning system is achieved.
- Clinical Skills Laboratory is established.
- OSPE and OSCE Laboratories are provided.
- CCTV connecting operation theatres to the teaching rooms are in place.
- Tele-medicine facility is provided for better health-care even in periphery (PHCs).
- Evidence-Based Practices are adopted.
- Local language is taught to students from outside the state and from foreign countries.
- Awards with cash incentives are instituted by the University and its constituent units in the following category:
 - On Teachers' Day, 'Best Teacher' in every constituent unit and 'Teacher of Teachers' awards are given by the University to the teachers.
 - Award for best non-teaching employee.
 - Award for best women employee for overall performance.
 - Award for best supporting staff.The following awards are given by Teaching Hospital:
 - Best and well-maintained ward
 - Best female staff nurse

- Best male staff nurse
- Best male Class-IV employee
- Best female Class-IV employee
- Best male sweeper
- Best female sweeper
- Official farewell function to all regular faculty and staff of the University, who attain superannuation to foster belongingness, is given and the function is chaired by the Vice-Chancellor.
- Integrated teaching for undergraduates is practiced.
- Inter-disciplinary seminars for postgraduates are conducted.
- Externally funded projects are pursued.
- Students feed-back on teaching-learning methods is obtained.
- The semester system is introduced in B.Pharma course.
- Biometric attendance for teaching and non-teaching staff is compulsory.
- Orientation programmes are arranged for new recruits regarding teaching methodology, lesson planning and research conducted by UDEHP every year.
- Flash cards with printed questions for viva-voce examination in Dental College are provided.
- Faculty Academic Performance Evaluation Proforma (**FAPEP**) is introduced for medical faculty.
- The office staff and other support staff are regularly given training in the basic, as well as, advance computer knowledge to improve their skills.

Research, Consultancy and Extension:

- Following Centers of Excellence have been established :
 - (i) Women and Child Health
 - (ii) Medical Education and
 - (iii)Phytopharmaceuticals
- Cash incentives are given to faculty and post-graduates for publications and best paper / poster presentation at national and international conferences.
- Journal clubs are regularly conducted in the digital library.

- Scientific Journals are published by the colleges and University.
- UDEHP workshops on research methodology are regularly arranged for the faculty and research scholars.
- Collaborative Institutional Training Initiative (CITI program) online training for medical ethics is compulsory for all Post-graduate students and interns.
- Community Health Research projects are conducted in collaboration with international and national agencies including NICHD (USA).
- Ayurgenomics laboratory is established in Institute of Ayurveda.
- Well-established Public-Private Partnership (PPP) model is established to conduct community research and community awareness programmes.

Infrastructure and Learning Resources:

- The central laboratory facilities are established on campus and off campus. (KLE University's Basic Health Science Research Centers at Belagavi and Bengaluru).
- Clinical Skill Laboratory is established to sensitize undergraduate and postgraduate students for improving clinical skills.
- Public Private Partnership (Adoption of three Primary Health Centre and three Urban Health Centers) is established.
- International standard swimming pool is constructed.
- International standard convention center has been provided on the campus.
- E-learning facilities are available for strengthening teaching programmes.

Student support and progression

- Mentorship programs for students are in place.
- University's "Student Code of Conduct" booklet is published.
- Charts and models for health education are designed by UG students
- Scholarships are given for high achiever female students.
- 24x7 helpline is established for girl students and women employees.

- The emotional anchorage of the students is taken care of by offering Yoga classes, counselor services, personality development, communication skills, professional ethics and culture.
- The institution promotes social responsibilities in citizenship roles in a diverse generation of service learning programs and other opportunities through NSS activities.
- Health awareness rallies and street plays are arranged to make students realize their roles in preventive and promotive health.
- Observations of “days” like Independence Day, Republic Day, World Health Day, Doctors Day, Non violence Day, etc. to make the students understand their citizenship roles.
- Addresses by the spiritual leaders help to inculcate moral and ethical values.
- Participation of students in relief camps / relief work during natural and/or man-made disasters creates sense of service to the humanity.
- The slow learners are identified with a formatted checklist.
- Value Education program, “Right Life- Life Right” has been introduced to enhance student’s soft skill development and promote their emotional and spiritual well-being.
- The UG students are allowed to carry out small research projects during their summer vacation under the guidance of senior faculty members. This motivates the students in research field and also to understand the subject.
- The students are allowed to practice/ learn how exactly the model pharmacy works. This helps them in managing their own pharmacy after graduation.
- The 3rd and 4th year students of pharmacy are motivated by giving them training for writing the GPAT and other competitive examinations, due to which in last four years the number of successful students in GPAT has increased.
- Blue book is a continuous evaluation system in pharmacy, which is conducted on completion of a topic in each subject. It helps to evaluate slow and advanced learners.

Governance and Leadership:

- Establishment of IQAC at all constituent units.
- E-governance which helps to have paper-less, eco-friendly campus.

- Decentralized system of administration.
- Well planned **CALENDAR OF EVENTS** for administrative and academic programs of the university and its constituent units for the entire year.
- Implementation of new academic programs like Diploma in Value Education and Spirituality, Bio-statistics, etc. and non- academic programs like Vanamahotsav and other social awareness programs including **Swachha Bharat Abhiyaan (Clean India Mission)**.

Innovative Practices:

- Vibrant **University Empowerment Cell for Women** organizes programs for teaching and non-teaching staff.
- **Baby crèche** facility for staff's children and **'needle and thread'**: a facility for dependents of non-teaching staff to earn their living.
- On every third Friday of the month, hospital organizes musical program called **'Ragas for Rogas (Melody Vs Malady)'** for the psycho-social, emotional and spiritual benefit of patients and their attendants. The program is conducted by the staff and students from the University's School of Music.
- Staff Welfare Scheme is introduced to help families of teaching and non-teaching staff in distress following death of a faculty member. An amount of Rs.10,000/- is given immediately and the balance amount Rs 40,000/- is given to the nominee of the deceased employee.
- Felicitation is extended to the sports persons and **'Unsung Heroes'** who have achieved and have served humanity without expecting social rewards.
- The University has established **Community Radio Station – Venu dhvani**.
- The saplings are planted on birthdays of faculty and on Vanamahotsav Day.
- 'Annapurna' (free food) Scheme is practiced in charitable Hospital.
- Medical facility has been made completely free for gallantry awardees and freedom fighters by the hospital.
- The KLES Dr. Prabhakar Kore Hospital & Medical Research Centre is recognized by Governments of Maharashtra, Goa and Karnataka for various schemes for reimbursement.
 - Evidence-based Standard Operating Procedures (SOPs) are used in all Departments.

- Some innovative treatment procedures adopted include:
 - Endoscope assisted reduction of zygomatic complex fractures
 - Accelerated osteo-genic orthodontics (Wilkodontics)
 - Use of ultra-sonography for maxillofacial space infections.
 - Anterior segmental intra-oral distraction osteogenesis in hypo-plastic cleft maxilla
 - **Orthopedic Department has developed an articulated skeleton to educate the use of various orthopedic implants.**
 - Use of cadaveric cardiac valves
 - Safe delivery kits provided at the primary care facilities through community research programs.
 - Simple easy to use blood pressure recording apparatus and use of mobile device for provision of health-care for pregnant women with high blood pressure in Community Level Intervention for Pre-eclampsia (CLIP) project.
- Anti-tobacco counseling cell
- Funeral of unclaimed dead bodies.
- Annual Ayurveda food festival.

“**Protsaha 2014**” a marathon in support of differently-abled people was organized by KLE Shri B.M.Kankanawadi Ayurved Mahavidyalaya, in which 2000 citizens/students actively participated.

Motivation for **Body Donation** is conducted by the constituent units through various body donation campaigns. In last five years, **910** people have pledged their bodies for donation and so far the Institute has received **91** bodies.

Enhancement:

Institution of Research Awards:

Sl. No.	Particulars of the Award	No. of Awards p.a.	Quantum of Award
1	Best Ph.D Thesis Award	5	Rs. 20,000/- per Awardee
2	Best Post-Graduate Dissertation Award	5	Rs. 10,000/- per Awardee
3	Cash Award / Incentive for publication of Text Book / Reference Book	3	Rs. 30,000/- per Awardee

Sl. No.	Particulars of the Award	No. of Awards p.a.	Quantum of Award
4	Best Scientist Award	2	Rs. 30,000/- per Awardee
5	Best Young Scientist Award	2	Rs. 20,000/- per Awardee
6	Earn While you Learn Scheme	25	Rs. 2,000 to Rs. 5,000 per month, for one year depending on the nature of assignments / duties entrusted by the University for that particular job / post
7	Cash incentive to the faculty members on the financial grant received from funding agencies	--	@ 1% - 2% on the quantum of financial grant received from the funding agencies not exceeding Rs. 50,000/-

7.3 Best Practices

7.3.1 Give details of any two best practices that have contributed to better academic and administrative functioning of the institution.

Following are the two best practices of the University

1. Title of the Practice –Faculty Development Programs: An initiative by University

University Department of Education for Health Professionals (UDEHP)

“The paradigm shift away from teaching to learning has encouraged power to be moved from the teacher to the student”.

2. Objectives of the practice:

- To train the health science professionals in basics and advances in educational science and technology.
- To develop competence in clinical and educational research.
- To achieve excellence in patient care, through evidence based practice, clinical decision making and good clinical practice.
- To impart leadership qualities, social and executive communication skills in order to achieve continued professional excellence.

3. The Context :

What were the contextual features or challenging issues that needed to be addressed in designing and implementing this practice (in about 150 words) ?

Under the ambit of UDEHP, the educational sub-units of the Constituent Colleges such as, Department of Medical Education (DOME), Department of Dental Education (DDE), Department of Ayurveda Medical Education (DAME), Department of Physiotherapy Education (DPE), Department of Nursing Education (DNE) and Department of Pharmacy Education (DPHE) conduct regular educational programmes to cater to the needs of the respective health science professionals.

- Due to ever-growing demand for skilled professionals and rapidly expanding science of education, there has been a paradigm shift in practice of educational science and technology.

Challenges:

- Though training in how to educate seems trivial, there is a need for training all the teachers in educational science and technology with deliberate practice of the skills learnt to achieve excellence.
- Devoting substantial faculty time into such training programs.
- Resistance to change and adapt to the newer technologies.
- Lack of mandate on quality of teaching and learning, patient-care and research by the regulatory councils.
- Failure to realize the importance of professional development by the faculty
- Lack of motivation

4. The practice :

Describe the practice and its uniqueness in the context to find a higher education. What were the constraints / limitations, if any, faced (in about 400 words)?

- The professional development initiative for the faculty by UDEHP started soon after the establishment of University, one of its kind in the country. The DOME of JNMC is one of the earliest centers to begin faculty development training program in the year 1989. The said department has conducted ten international workshops in collaboration with University of Illinois, Chicago, USA.

- To date, UDEHP has trained more than 4200 professionals under 128 such educational programs.
- The Department has also catered to the needs of the postgraduate students by conducting both, basic and advanced training programs in research methodology and Medical Education Technology. This initiative has not only inculcated the research temperament in the faculty, but also has improved the health-care. There is enhancement in quality and number of research publications and application of evidence-based practice for health-care.
- Analysis of the feedback on these programs by the participants is highly encouraging and has shown that there is improved personal and professional development in-terms of, knowledge gain, skills acquired, enhanced communication, organizational and managerial skills.

5. Evidence of Success ;

Provide evidence of success such as performance against targets and benchmarks, review results. What do these results indicate? Describe in about 200 words.

- Many of the innovative practices related to education, health-care and research have been implemented at various levels, after they were learnt through faculty development programs, like practice of Evidence Based Health Care, implementation of OSCE/OSPE at internal examination, development of various curricula, incorporation of ICT in the classrooms, development of quality MCQ banks, etc. The innovative practices of UDEHP have been emulated by other higher education institutions.
- DOME has been functioning as **MCI recognized regional training centre** in imparting basic medical education technology for teachers of 15 medical colleges ear marked by MCI.
- DOME has also been recognized as a **Nodal Center by MCI for training teachers of 39 medical colleges of Karnataka, Andhra, Telangana and Goa** in advanced medical education technology.
- Department of Pharmacy Education is approved by AICTE as **National Nodal Centre for training of the teachers in pharmacy** for the years 2010 to 2013.
- Fourteen teaching modules for in-service staff nurses are regularly being conducted by UDEHP.

6. Problem encountered and resources required :

Identify the problems encountered and resources required to implement the practice (in about 150 words).

- Health education which is teacher-centered and classroom-oriented system practiced in India is the legacy of British practice which is being in practice even after independence.
- The concept of a basic health professional is to serve the community, meeting the basic health care needs of a common person. However, this concept is grossly being neglected by training health care professional students, restricting them within four walls of the institute, and maintaining teacher-oriented and training in tertiary-care centers.
- Our teachers have continued to copy their teachers in transferring knowledge, skills and practices, without making any efforts to analyze whether it promotes learning in students.
- The role of present day teacher is not mere teaching, but it is teaching and learning experience. For this change to come, Herculean efforts are needed to change the mindset of a teacher. This means the teacher should be ready to accept the newer changes in teaching, learning and evaluation process. The challenges faced were mainly in-terms of:
 - Lack of motivated participants.
 - Lack of devoting time by faculty into such training programs.
 - Non-compliance.
 - Failure to realize the importance of continuous professional development.
 - Resistance to adapt the newer trends in teaching-learning and assessment.

Resources:

Manpower – Resource Person : In-house interested faculty were identified and trained as Trainer of Trainees (ToTs) at national (JIPMER, Pondicherry, PGI, Chandigarh and FAIMER, Coimbatore) and International (Department of Medical Education, University of Illinois, Chicago, USA) centers. These trained personnel and other senior faculty members established **Department of Medical Education at J. N. Medical College in 1989** through which other constituent units ToTs were trained. These trained ToTs of constituent units established Educational Department in their respective

institutions. With the inception of the University, the **UDEHP** was established which enhanced the functioning of these Educational Departments of the Institutions through various programs. For this, the paramount importance is unbridled support and encouragement of the management.

7. Notes:

Optional. Add any other information that may be relevant for adopting/ implementing the Best Practice in other institutions (in about 150 words).

The services of the faculty members of the UDHEP / DOME were appreciated by many of institutions, near and far. As a result these trained and experienced faculty in professional health education were invited by various institutions to sensitize their faculty in following areas.

1. Teaching Methodology
2. Research methodology
3. Micro-teaching
4. OSPE/OSCE
5. Evaluation Reforms
 - In addition the UDEHP started the PG diploma in advanced medical education in collaboration with department of Medical Education of University of Illinois, Chicago (UIC), USA through which the in-house and other faculty members from other institutions have been benefited.
 - The UDEHP also conducts training programs for the teachers of other educational institutions (including schools) at their invitation.

Second Best Practice of the University:**PUBLIC PRIVATE PARTNERSHIP IN HEALTH CARE AN INITIATIVE BY KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH: TO TAKE THE ADVANCES IN HEALTH CARE TO THE UNREACHABLE****a) Objectives of the practice**

- a. To get insight into the community health profile.
- b. To provide the same quality of health care to the unreachable population as that is provided at corporate /advanced health facilities.
- c. To create awareness and educate the community about health / care.
- d. To update / improve the knowledge skills and attitude of the community health care providers
- e. To strengthen effective communication network between primary care facilities to tertiary care facilities
- f. To improve the overall health profile of the community.

b) The context:

- a. To achieve the Millennium Development Goal 4 and 5.
- b. Every health care institute must strive in preventing the deaths and disability by providing quality care.
- c. The main reasons for poor outcomes are 4 delays:
 - i. Delay in seeking care
 - ii. Delay in diagnosis
 - iii. Delay in transfer
 - iv. Delay in effective treatment at higher facility
- d. Need for comprehensive health care: which include dental, physiotherapy, pharmacy, ayurveda along with modern medicine.

Challenges:

- Being private institute, working with or co-ordinating with public sector health care providers
- Attitude / aptitude of public health care providers

- Availability of faculty, time and feasibility due to the assignment at the institute
- To create proper methodology or means to approach community

c) The Practice

- In 1999, the milestone collaboration was established between this institute (JNMC) and University of Illinois which helped to strengthen the collaboration.
- Due to the experience of HRRCC – 215 and with some exposure to field research experience with ICMR since 1984, it was possible to practice.
- The faculty underwent training in research methodology through ICMR by CDC 1996.
- With historic Misoprostol trial for prevention of PPH, which is one of the leading cause of maternal mortality, a public private partnership between this institute and district health administration made humble beginning to work with 21 sub center (ANM's) areas of 4 PHCs in Belgaum district from 2001 to 2006. Now, it covers 90/244 PHCs areas of three districts covering population of 18,83445.

Steps taken: In the community

- a. The team had series of meetings with village leaders and community members to inform about the project, the benefits and their roles/ responsibilities and to seek support for health care provider and arrange for timely transport in emergency.
- b. All health care providers, ANM's, MOs were trained and were involved in supervision. Other district health officials worked as Field Research Officers (FROs). The faculty at tertiary care center were updated and contact information was provided to Community Health workers.

The outcome was not a single maternal death in 1620 deliveries though there were >30 referrals.

- Institute established the Research Foundation.
- Created awareness on harms of tobacco use in pregnancy by survey from 2004-2007 with support of medical officers and health care providers.
- Important areas for improvement were identified

- Faculty members are efficiently trained
- Involvement of public sector workers in the team
- Use of available facilities and system practices : village health committees, monthly meetings of staff, surveys, Married Woman of Reproductive Age (MWRA) (eligible couple), etc. were further strengthened.
- Community health workers skills and knowledge updated by training.
- Support and permissions from higher health officials – state district and local obtained
- Involvement of elected representatives as ascertained.
- Community awareness and education by series of meetings, discussions were arranged through health care providers
- Proper network with peripheral health workers and central team members and with district health administration with improved communication details was developed.
- Provision of financial incentives for the extra work of CHWS and support staff was made.
- Quality health care with human touch at the tertiary facility was provided.
- Feedback was obtained and necessary corrective measures were taken.

d) Evidence of success

It is recorded in each of these activities as follows:

- a. **PPH:**
 - i. Not a single maternal death out of 1620 deliveries in Misotrial.
 - ii. Government of India brought the changes in its guidelines and accordingly misoprostol drug was included for prevention of post-partum hemorrhage, where injectable oxytocics are not available.
 - iii. Now this Drug is used in more than 26 countries.
 - iv. WHO included Misoprostol in essential drug list.
 - v. ANM's guidelines recommended.
 - vi. Published in **LANCET** in Oct-2006 with impact factor of **39.53** and citation index of **254**.

b. First Breath Study :

- i. Reduction in NMR and PNMR
- ii. Navajati Shishu Suraksha Karyakrama (National Program) is an outcome based on this study.
- iii. Innovative approaches to see and examine the new-born within 24 hours of birth.
- iv. Process of tracking every pregnancy in the community was initiated in this study,
- v. The results published in **New England Journal of Medicine (NEJM)** in 2010 with impact factor of **54.42** and citation index of **139**.

c. Emergency obstetric and new born care (EMNOC)

- i. The project Improved the skills and knowledge of CHW's in maternal and new born care.
- ii. It also improved home based life saving skills in the community members.
- iii. This project reduced PNMR, NMR and MMR in the local area thus, strengthening the NRHM programme.

d. Maternal New-born Health registry (MNH).

- i. More than 150000 pregnancies are enrolled and tracked up to 42 days after delivery with 99.9% follow up.
- ii. This is the basis of data for many interventions to take up in community.
- iii. Today, because of this we are able to provide the correct indices rates on
 1. Pre-Term Labor
 2. Neonatal Mortality Rate-early & Late
 3. Still birth rate
 4. Maternal Mortality Rate.
 5. Miscarriage rates, etc.

e. Ante-natal Corticosteroid Trial (ACT)

- i. Helped in identification of women with Pre-term Labour (PTL) in the community.

- ii. Improved use of Ante-natal Corticosteroid which improved the new born survival.
 - iii. Promoted the activities of CHW's through pregnant women and mothers meetings.
 - iv. Created awareness among the scientific community with reference to morbidity and mortality in babies born after the pre-term period.
 - v. Published in **LANCET** in Oct-2014.
- f. **Helping Babies Breathe (HBB) :**
- i. This project developed the skills in CHW and care-providers at various levels of health-care facilities including, tertiary-care facilities for new born resuscitation and care.
 - ii. This improved the new-born survival
 - iii. The daily practice of this program brought near perfection in the skills.
 - iv. The success of this procedure made to incorporate this program into the curriculum.
 - v. The manuscript based on this program is under review for publication.
- g. **Pre-conceptional nutrition (women first):**
- i. Promotes optimization of health of a woman before conception.
 - ii. Reduces adverse pregnancy outcomes
 - iii. Improves the maternal and new-born outcomes.
 - iv. Ensures healthy-baby to a healthy-mother.
- 1 Today this **PPP has become the role model for many national and international agencies** for operational research in the community.
 - 2 This has provided forum to conduct/implement through operational research to provide evidence based quality intervention to the unreachable with objective to improve the overall health care.
 - 3 Newer simple devices were developed and being used.
 - 4 Safe delivery kits are being provided
 - 5 Blood loss measurement BRASS-V Drape was developed.

- 6 Provision of international standard–Baby and women weighing scale, height measurement instrument to all PHC areas of this PPP.
- 7 Simple BP apparatus to measure blood pressure by ASHA's through CLIP TRIAL.
- 8 Importantly, this **PP partnership brought up changes in curricular teaching-learning methods** and improved the research culture with many publications in high impact factor journals.

e) Problems encountered

- i. Working with community and public sector employee was a challenge.
 - To bring the change in their attitude /aptitude
 - Proper data collection was a greatest task
 - Poor compliance from CHWs
 - Difficulty in adjusting the timings of project workers with the community members. Since the community members are not available (as they are away in the field to earn their livelihood) during the office hours.

Solutions:

1. Motivation by repeated training, meetings/discussions with CHWs to bring the change in their attitude / aptitude.
2. Periodic review of data after audit and field visits to verify/rectify for proper data collection
3. Identifying the persons, attempts to improve them for improved compliance from CHWs
 - a. Support from administration both, public and private sector.
 - b. Involvement of every stakeholder in the process
 - c. To involve retired public health officials
4. Community involvement without loss of wages suiting to their time. Repeated approaches made them to realize the advantages of these practices. The project workers were made to contact the community members in the evenings (as per the convenient time of the community members).

f) Notes :

- With this PPP University was able to provide the evidence based quality health care interventions to the unreachable community.
- Improved the knowledge, skills and attitude of the health care providers.
- Created the awareness in the community.
- Community education programs were strengthened
- Successful network between peripheral (primary) health care to tertiary health care could be established.
- The objectives of NRHM and Urban Health Mission (UHM) mission were strengthened.
- Improved the research culture in the institute.
- Helped to understand community needs.
- Need based changes in curriculum, teaching and learning were made eg. HBB, NSSK.
- Quality and quantity of publication could be improved.
- Exposure to the renowned international, national researchers and agencies brought improvement in scientific presentations.
- Over all, it helped to meet the objectives of the University to improve the health profile of the community in this part of the country.
- This also provided employment opportunity to identified social workers as field staff.

The PPP model with RMRC, Belagavi a division of ICMR

1. Established collaboration with University Research Foundation
2. Ethics Committee of the University is headed by the chief of the RMRC.
3. The infrastructure of both institutions including instrumentation facility, are shared for academic and scientific meets.
4. The institute hoists national meetings with ICMR/ RMRC and university faculty
5. Expertise of senior faculty is used as the member of Scientific Advisory Committee of ICMR and as Chairman of the Recruitment Committee for the appointment of senior scientists through formal MoU.

6. Exchange of faculty as resource persons.
7. The joint field visits are regularly organized in Western Ghats for survey of medicinal plants.

PPP model is successful in following fields as well

1. Taking over of the three primary health centers of Government of Karnataka.
2. Taking over of three urban health centers of Government of Karnataka.
3. Involvement in national blindness control programme
4. Involvement in Prevention of Parent to Child Transmission (PPTCT)
5. Establishment of Day care psychiatry center.
6. Treatment of disability induced by leprosy
7. Implementing Revised National Tuberculosis Control Program (RNTCP)
8. Initiation of school dental health check-up programme.
9. Implementing Government sponsored schemes (Yashaswini, Balsanjiveeni, Vajpayee Arogya Shree, Arogya Bhagya, etc).
10. Strengthening of research and human resource development in the field of medicinal plants in collaboration with RMRC, ICMR.

This PPP has practically satisfied all the criteria viz. Curriculum, Teaching-Learning and Evaluation, Research, Infrastructure, Leadership above all Innovations.

The three pillars of the University **Teaching, Learning and Research**, have reached the community and have benefitted the needy and have improved the health profile.

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