



# KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH (Formerly known as KLE University)

(Deemed-to-be-University established u/s 3 of the UGC Act, 1956)

Accredited 'A' Grade by NAAC (2<sup>nd</sup> Cycle) Placed in Category 'A' by MHRD (GoI)

JNMC Campus, Nehru Nagar, Belagavi-590 010, Karnataka State, India

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## B. M.K. Ayurveda

### COURSE OUTCOME

#### BAMSI SEMESTER

##### 1. Sharira Rachana

Shareera Rachana is segmentation of Ayurveda which exclusively deals with the study of human body through dissection, which forms the subtle essential basics and sets a strong base for further medical knowledge

After completion of course student will be

- Comprehend the normal disposition, inter-relationships, gross, functional and applied anatomy of the various structures in the body.
- Have a detail knowledge of Ayurveda Terminologies pertaining to different body parts
- Develop the skill of dissecting & identifying the structures of the body
- He / She should be able to locate the site of gross lesions according to the deficits encountered

##### 2. Sharira Kriya

Shareera kriya is the key subject in medicine. This subject provides the ground base knowledge of body functions and dysfunctioning which helps in critical understanding of disease process and insight to disease management and prevention. Physiology is the core of medical wisdom. Its enormous contribution is responsible for the growth of medical technology and clinical management.

ATTESTED

  
Dr. V.A. Kothiwale  
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After completion of course student will be

- sufficient level of knowledge of SHAREER KRIYA to understand the basic facts, concepts and principles essential for medical practice
- To find solutions in basic concepts of mechanisms, prevention and treatment of disease.

### **3. Padhartha Vijnana and Ayurveda Itihasa.**

After completion of course student will be

- Students to understand the fundamental concepts of Ayurveda
- Relation between Indian Philosophy and Ayurveda
- History of Ayurveda and its origin.

### **4. Ashtanga hrudaya avum Maulika siddhanta**

After completion of course student will be

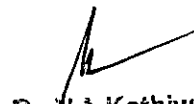
- Demonstrate Ayurvedic concepts like, dosha-dhatu-mala, ahar , vihar etc mentioned in Ashtang Hridaya.
- Give advice for Health and lifestyle management through Dinacharya, Rutucharya, Sadvrutta etc.
- Select appropriate Panchakarma procedures in healthy & diseased conditions.

### **5. Sanskrit**

After completion of course student will be

- Make Samskruta as a speaking language
- Understand the basic concepts of Ayurveda which are written in sanskrit
- Grammatical analysis of Sanskrit shlokas

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## **BAMS II SEMESTER**

### **1. Rasa Shastra avam Bhaishajya Kalpana (Pharmaceuticals of Ayurveda)**


Rasashastra and Bhaishajya Kalpana is a combined branch of Pharmacognosy, Pharmaceuticals, Nutraceuticals and Pharmacology.

Rasashastra and Bhaishajya Kalpana is the potential branch deals with selection of genuine raw drugs, their collection, processing of poisonous herbs, manufacture of herbal, herbo-mineral, herbo-metallic formulations and their therapeutic indications, dose, vehicle and diet

After completion of course student will be

- Sound theoretical knowledge and practical skills of **Kalpa** at the end of Profession/Course.
- Develop and modify classical formulations adopting advanced technology and to validate classical formulations to achieve safety and efficacy.
- Bring confluence in achieving academic excellence and promoting scientific research methods in Rasashastra and Bhaishajya Kalpana

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## 2. Nidan/Vikriti Vigyana (Pathology)

Providing basic methodology of Roga Nidana and Vikruti Vijnana with recent developments in clinical diagnostics, bestowing complete knowledge of bedside clinics and advanced investigations with clinical interpretation.

After completion of course student will have be

- Describe the importance of – Dosha Dooshyadi Vigyanam, fundamentals of Vikruti Vijnan and Rognidan, Pariksha Vidhana, Shat Kriyakala (Vyadhi and Rutu), Nidana Panchaka, Vyadhi Vigyanam
- Comprehend basic pathology, immunology and infectious diseases
- Construct the knowledge of Concept of Ashta Mahagada.
- Classify microorganisms such as Virus, Bacteria, Fungi
- Infer Vyadhikshamatva
- Identify the importance of Rogamarga
- Appraise Ojas and Vyadhikshamatva
- Assess the basic knowledge of bio chemistry, pathology and microbiology
- Specify and classify Vishistha Vata Vyadhi
- Endocrinology

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**Skills:**

- Execute the practice of Pareeksha Vigyanam
- Interpret the Diseases of various Srotas
- Practice the tools of Avayavika Pariksha like -USG, X-ray, MRI, CT, ECG etc
- Demonstrate Upasargjanya Vyadhi (Communicable diseases)
- Integrate Krimi Vigyanam
- Perform bedside physical examination and history taking by regular observation of the demonstrations and practice on the patients
- Calibrate various steps involved in performing various laboratory Investigations
- Adapt safety skills during the emergencies at student laboratory

**Attitude:**

- Develop communication skills to take the patients into confidence
- Extrapolate to take the patient into confidence for briefing proper history
- Valuing high moral and ethical standards while carrying out the clinical examination and history taking

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### 3. Dravyaguna

Dravyaguna is an integral part of Ayurveda, which deals comprehensively about rasa, guna virya, vipaka and prabhava (pharmacokinetics and pharmacodynamics) of herbs. Branch also deals with identification, collection, storage, and preservation of raw materials of plant origin.

After completion of course student will have be

- Detail knowledge of Ayurveda drugs and its therapeutic uses
- Collection and preservation of drugs
- Identification of adulteries and use of Abhava dravyas
- Knowledge of rare drugs

### 4. Charaka Samhita Purvardhta

After completion of course student will be

- Demonstrate Ayurvedic concepts like, dosha-dhatu-mala, ahar , vihar etc mentioned in Ashtang Hridaya.
- Give advice for Health and lifestyle management through Dinacharya, Rutucharya, Sadvrutta etc.
- Select appropriate Panchakarma procedures in healthy and diseased conditions.

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## **BAMS III SEMESTER**

### **1. Agadtantra, VyavaharAyurveda and Vidhi Vaidyaka**

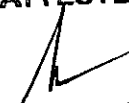
Agada Tantra is a branch of Ayurveda which deals with identification, prevention, diagnosis and treatment of various **Visha** conditions (Animate, Inanimate, Subclinical, Residual and Cumulative toxicological presentation). Department of Agada Tantra for Undergraduate was individualized in 1963. Since then the department is growing and working for the upliftment of Agada Tantra.

To uplift the glory of Ayurveda Vishachikithsa by Exploring the classical and traditional knowledge on scientific grounds.

After completion of course student will have be

- scientifically validate the Antidoatal effects of Agada 's, for Garavisha (artificial Poisons) and Dooshivisha (Low potent poisons)
- Traditional Practices of Visha Chikithsa.
- Establish the art of treatment of Skin Diseases Through fundamentals principles of AgadaTantra.
- Establish the Ayurveda Environmental Toxicology on Scientific grounds

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## 2. Swasthavritta Yoga

**Swasthavritta**, which is known as Preventive and Social Medicine or Community Medicine in modern medical science. The concept of Swasthavritta is pioneer in the field of medicine propagated by our ancient seers and is basic need for building a healthy society.

After completion of course student will be able to

- Provide community based services,
- provide preventive services to the society in respect to communicable, non-communicable diseases,
- To know and involve in national health programmes,
- Understand and practice Yoga & Naturopathy
- Understand and practice principles of Ayurveda diet system.

## 3. PRASUTI TANTRA EVUM STRI ROGA

Prasuti Tantra & Striroga is a significant branch of Ayurveda mainly dealing with child birth /Parturition (Prasuti Tantra /Obstetrics) and Gynecological (Striroga) disorders.

After completion of course student will be able to

- To promote Garbhini Paricharya (Antenatal care through Ayurveda) through quality clinical training
- Explore Ayurveda treatment modalities for various Gynecological disorders
- To validate pharmacotherapy of drugs & formulations related to

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#### Prasuti Tantra & Striroga

- To implement Standard Operative Procedures (SOP) for various therapeutic procedures related to Prasuti Tantra & Striroga

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#### 4. KAUMARBHRITYA PARICHAYA

Kaumarabhritya seeks to improve the health of children through excellence in the care of Children and families through Ayurveda principles

After completion of course student will be able to

- To impart complete theoretical, clinical and practical knowledge of Kaumarabhritya.
- Generate research minded, knowledge seeking and knowledge expanding clinicians and academicians.
- Provide facilities to the graduates and postgraduates for the intellectual/ skill growth and braveness to serve the mankind.
- Serve as a part of national immunization program with Ayurvedic immune boosters
- Provide the scope of job facilities in national and international level
- Systematize and impart Preventive Ayurvedic Pediatrics
- Systematize Ayurvedic treatment protocols, Drug doses, drug forms, Panchakarma, Nutrition, growth and development.
- Strengthen Ayurvedic Pediatric Literature.

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## 5. CHARAK SAMHITA (UTTARARDHA)

After completion of course student will be

- Demonstrate Ayurvedic concepts of Chikitsa sutra
- Give advice for Health and lifestyle management through shama aushadha and shodhana
- Understand diseases and its pathology in detail Ayurveda way
- Select appropriate Panchakarma procedures in healthy and diseased conditions.

## BAMS IV SEMESTER

### 1. KAYACHIKITSA

Kayachikitsa is the one of the eight branches of Ayurveda which deals with the multi systemic illness of the adults. It deals with therapeutic approach to the disease either through Shodhana (purification), Shamana (pacification) and Satwawajaya (Counseling). These applications are done through medications, behavioural, psychological & life style management. Pharmacological intervention is through various forms of medicines like vati (tablets), kashaya (decoctions), churna (powders), bhasma, asava, arista, ghruta, guggulus etc. Strength of the system is providing efficient, cost effective, personalized medicine with high safety margins

After completion of course student will be able

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- Recognize the need of lifelong learning, to stay abreast of relevant scientific advances.
- Develop the communication skills.
- Develop ability of applying evidence based principles of medicine.  
And ability to practice the principles of primary health care.
- Use the knowledge for clinical application in day to day practice.

## 2. PANCHKARMA

It is that stream of Ayurveda which fulfills the objective of prevention and cure especially in the era of lifestyle disorders and chronic diseases it provides apt solutions.

After completion of course student will be able

- Perform various panchakarma procedures
- Have hands on experience
- Confident in employing panchakarma therapies
- Well versed in patient interaction

## 3. SHALYA TANTRA


Shalyatantra is one of distinct branch of Ayurveda which explains and demonstrates surgical knowledge and procedures that were performed and used since thousands of years and are useful even today.

After completion of course student will be able

- Providing the competent surgical and medicinal knowledge.

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- Skills for the care of patients with complex problems that difficult to diagnose and to manage.
- Demonstrating decision making skills for treatment and referral to deliver comprehensive management for the patient

#### 4. SHALAKYA TANTRA

Shalakyatantra is defined as branch of an Ayurveda which deals with diagnosis and management of diseases that occurs above the clavicle. Viz. Diseases of eyes, ears, nose, throat, head and neck. Since this speciality deals with narrow and delicate parts of body, it requires various specialised instruments for diagnosis and treatment. Hence, the term *Shalaki* is used for the specialists of Shalakyatantra.

After completion of course student will be able

- Ability of applying evidence based principles of medicine.
- Develop the communication skills.
- Develop the ability to practice the principles of primary health care.
- Recognize the need of lifelong learning, to stay abreast of relevant scientific advances.
- Inculcate thirst for learning to develop in-depth knowledge.
- knowledge for clinical application in day to day practice.

#### 5. RESEARCH METHODOLOGY AND MEDICAL STATISTICS

After completion of course student will be able

- Study the descriptive statistics and applications in pharmaceutical

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research & experimental studies

- Study the measures of central tendency, correlation, probability theory
- Study the descriptive statistics, Graphics, parametric & non-parametric tests, ANOVA.
- To study the need for design of Experiments and study design types.

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**KLE SHRIBMKANKANAWADI AYURVEDA MAHAVIDYALAYA**

Program outcome for BAMS Curriculum

**P0.1. Critical thinking** - Comprehensive basic knowledge of Ayurveda, critical thinking and analytical skills for diagnosis of disease and management of relevant and appropriate conditions as per Ayurveda.

**P0.2. Patient Care:** Evaluate and apply the principles of Ayurveda through evidence- based approach to clinical care and decision making necessary for patient care to provide preventive, promotive, Curative, palliative and holistic health care with compassion.

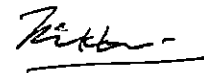
**P0.3. Communication and interpersonal skills:-** Communicator with patients, Family, colleagues and community. Possess sufficient knowledge to **communicate** information using technologies available, in Ayurveda Clinical Practice

**P0.4. Modern tool and ICT usage.** Learn, select, and apply appropriate methods and procedures, resources, and modern Ayurveda education and patient management - related computing technical tools with understanding of the limitations

**P0.5. Leadership & Attitude** - Demonstrate professionalism and high ethical standards, Leader and member of the health care team and system with capabilities to collect, *analyze*, synthesize *and* communicate Ayurveda health information Appropriately.

**P0.6. Lifelong learner and researcher** - Lifelong learner committed to continuous improvement of skills and knowledge and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

**PO. 7. Professionalism and ethics:** Professional, who is committed to excellence, is ethical, responsive and accountable to patients, community and profession.



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