

KLE Society's Institute of Dental Sciences

Program Specific Learning Outcomes

The institute has categorically formulated the learning objectives of each program it offers and ensures to achieve the programme goals. Systematic academic process consisting of programme design-course design- curriculum content - pedagogic approach -evaluation components and weightages - practice based learning and projects is clearly charted out while planning for academic curriculum. In view of the involvement of all the faculty members at the appropriate stages of the academic process, faculty members ensure that the process is followed rigorously and correctly. Further, the program structure, course content, delivery mechanisms are all published in the internal documentation which is available for both faculty and students. Each faculty member before the beginning of the term, declare the learning objectives, course outline, lesson plan and evaluation process setting out the details of the pre-reads, books, articles, cases that are required to be studied and discussed in the class including classroom presentations and class participating activities and in the process each student is made aware of the academic process involved in the program.

BDS – Specific learning outcomes

At the completion of the undergraduate training programme the graduates shall be competent in the following.-

General Skills

Apply knowledge& skills in day to day practice

Apply principles of ethics

Analyze the outcome of treatment

Evaluate the scientific literature and information to decide the treatment

Participate and involve in professional bodies

Self assessment & willingness to update the knowledge & skills from time to time

Involvement in simple research projects

Minimum computer proficiency to enhance knowledge and skills

Refer patients for consultation and specialized treatment

Basic study of forensic odontology and geriatric dental problems

Practice Management

Evaluate practice location, population dynamics & reimbursement mechanism

Co-ordinate & supervise the activities of allied dental health personnel

Maintain all records

Implement & monitor infection control and environmental safety programs

Practice within the scope of one's competence

Communication & Community Resources

Assess patients goals, values and concerns to establish rapport and guide patient care

Able to communicate freely, orally and in writing with all concerned

Participate in improving the oral health of the individuals through community activities.

Patient Care – Diagnosis

Obtaining patient's history in a methodical way

Performing thorough clinical examination

Selection and interpretation of clinical, radiological and other diagnostic information

Obtaining appropriate consultation

Arriving at provisional, differential and final diagnosis

Patient Care – Treatment Planning

Integrate multiple disciplines into an individual comprehensive sequence treatment plan using diagnostic and prognostic information

Able to order appropriate investigations

Patient Care – Treatment

Recognition and initial management of medical emergencies that may occur during Dental treatment

Perform basic cardiac life support

Management of pain including post operative

Administration of all forms of local anaesthesia

Administration of intra muscular and venous injections

Prescription of drugs, pre operative, prophylactic and therapeutic requirements

Uncomplicated extraction of teeth

Transalveolar extractions and removal of simple impacted teeth

Minor oral surgical procedures

Management of Oro-facial infections

Simple orthodontic appliance therapy

Taking, processing and interpretation of various types of intra oral radiographs

Various kinds of restorative procedures using different materials available

Simple endodontic procedures

Removable and fixed prosthodontics

Various kinds of periodontal therapy

ORAL MEDICINE & RADIOLOGY

- Able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned speciality for their management
- Should have an adequate knowledge about common laboratory investigations and interpretation of their results.
- Should have adequate knowledge about medical complications that can arise while treating systemically compromised patients and take prior precautions/ consent from the concerned medical specialist.
- Have adequate knowledge about radiation health hazards, radiations safety and protection.
- Competent to take intra-oral radiographs and interpret the radiographic findings
- Gain adequate knowledge of various extra-oral radiographic procedures, TMJ radiography and sialography.
- Be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation
- Should be familiar with jurisprudence, ethics and understand the significance of

dental records with respect to law.

PAEDIATRIC & PREVENTIVE DENTISTRY

- Able to instill a positive attitude and behaviour in children towards oral health and
Understand the principles of prevention and preventive dentistry right from birth to adolescence.
- Able to guide and counsel the parents in regards to various treatment modalities
Including different facets of preventive dentistry.
- Able to treat dental diseases occurring in child patient.
- Able to manage the physically and mentally challenged disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

- Understand about normal growth and development of facial skeleton and dentition.
- Pinpoint aberrations in growth process both dental and skeletal and plan necessary
treatment
- Diagnose the various malocclusion categories
- Able to motivate and explain to the patient (and parent) about the necessity of
treatment
- Plan and execute preventive orthodontics (space maintainers or space regainers)
- Plan and execute interceptive orthodontics (habit breaking appliances)
- Manage treatment of simple malocclusion such as anterior spacing using removable
appliances
- Handle delivery and activation of removable orthodontic appliances
- Diagnose and appropriately refer patients with complex malocclusion to the specialist

PERIODONTOLOGY

- Diagnose the patients periodontal problem, plan and perform appropriate periodontal
treatment
Competent to educate and motivate the patient
- Competent to perform thorough oral prophylaxis, subgingival scaling, root planning
and minor periodontal surgical procedures
- Give proper post treatment instructions and do periodic recall and evaluation

- Familiar with concepts of osseointegration and basic surgical aspects of implantology

PROSTHODONTICS AND CROWN & BRIDGE

- Able to understand and use various dental materials
- Competent to carry out treatment of conventional complete and partial removable dentures and fabricate fixed partial dentures
- Able to carry out treatment of routine prosthodontic procedures.
- Familiar with the concept of osseointegration and the value of implant-supported Prosthodontic procedures

CONSERVATIVE DENTISTRY AND ENDODONTICS

- Competent to diagnose all carious lesions
- Competent to perform Class I and Class II cavities and their restoration with amalgam
- Restore class V and Class III cavities with glass ionomer cement
- Able to diagnose and appropriately treat pulpally involved teeth (pulp capping procedures)
- Able to perform RCT for anterior teeth
- Competent to carry out small composite restorations
- Understand the principles of aesthetic dental procedures

ORAL & MAXILLOFACIAL SURGERY

- Able to apply the knowledge gained in the basic medical and clinical subjects in the Management of patients with surgical problems
- Able to diagnose, manage and treat patients with basic oral surgical problems
- Have a broad knowledge of maxillofacial surgery and oral implantology
- Should be familiar with legal, ethical and moral issues pertaining to the patient care and communication skills
- Should have acquired the skill to examine any patient with an oral surgical problem in an orderly manner
- Understand and practice the basic principles of asepsis and sterilisation
- Should be competent in the extraction of the teeth under both local and general

anaesthesia

- Competent to carry out certain minor oral surgical procedure under LA like trans-
Alveolar extraction, frenectomy, dento alveolar procedures, simple impaction, biopsy,
etc.
- Competent to assess, prevent and manage common complications that arise during
and after minor oral surgery
- Able to provide primary care and manage medical emergencies in the dental office
- Familiar with the management of major oral surgical problems and principles
involved in the inpatient management

PUBLIC HEALTH DENTISTRY

- Apply the principles of health promotion and disease prevention
- Have knowledge of the organization and provision of health care in community and in
The hospital service
- Have knowledge of the prevalence of common dental conditions in India.
- Have knowledge of community based preventive measures
- Have knowledge of the social, cultural and env. Factors which contribute to health or
illness.
- Administer and hygiene instructions, topical fluoride therapy and fissure sealing.
- Educate patients concerning the aetiology and prevention of oral disease and encourage them
to assure responsibility for their oral health.

MDS Course Outcomes

The course outcomes -same as above in the respective specialties. In addition, the MDS students should be able to treat complex cases in their respective specialties. They should be able to carry out interdisciplinary treatment successfully.

PhD Course Outcomes

At the end of the course the student should be able to plan and carry out high impact research in the selected field in a stipulated time. The student should be able to obtain grants for research from various funding agencies. The research should have a social impact too and the new avenues to

be explored in the selected field. They should be involved in interdisciplinary and transdisciplinary research in the related fields.