

2.6.3

Teaching and learning and assessment mapping:

Program Specific Learning Outcomes:

The institution 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, evaluation and weightages, practice based learning and projects is clearly charted out while planning for academic curriculum.

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 patient's goals, values and concerns to establish rapport and guide patient care
- Able to communicate freely, orally and in writing with all concerned.

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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 do or send for 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 anesthesia

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


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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
Plan and execute interceptive orthodontics
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 patient's periodontal problem, plan and perform appropriate periodontal treatment
Competent to educate and motivate the patient


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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

Should be Competent to,
Diagnose all carious lesions
Perform Class I and Class II cavities and their restoration with amalgam
Restore class V and Class III cavities with glass ionomer cement
Diagnose and appropriately treat pulpally involved teeth (pulp capping procedures)
Perform RCT for anterior teeth
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 anesthesia.
Competent to carry out certain minor oral surgical procedure under LA like transalveolar extraction, frenectomy, dento-alveolar procedures, simple impaction, biopsy, etc.

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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 in- patient 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 environmental 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.


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Bangalore - 560 078.