PROGRAM SPECIFIC OUTCOMES

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

General skill

- 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 and willingness to update the knowledge and 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 and 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.
- 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’s comprehensive sequence treatment plan using diagnostic and prognostic information. Ability 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 anesthesia.
- Administration of intra muscular and venous injections.
- Prescription of drugs, pre-operative, prophylactic and therapeutic requirements.
- Uncomplicated extraction of teeth.
- Trans alveolar 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 specialty 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, radiation 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 behavior 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 guardian/parents with regard to various treatment modalities including different facets of preventive dentistry.
- Able to treat dental diseases occurring in the child patient.
- Able to manage 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 categories of malocclusion.
- Able to motivate and explain to the patient (and parent/guardian) about the necessity of treatment.
- Plan and execute preventive orthodontics (space maintainers or space retainers)
- Plan and execute interceptive orthodontics (habit breaking appliance)
- 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 treatment.
- 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 procedure.
- Familiar with the concept of osseointegration and the value of implant-supported prosthodontic procedures.
CONSservative 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 sterilization.
- Should be competent in the extraction of the teeth under both local and general anesthesia.
- Competent to carry out certain minor oral surgical procedures 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 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 oral hygiene instructions, topical fluoride therapy and fissure scaling.
- Educate patients about etiology and prevention of oral disease and encourage them to assure responsibility for their oral health.