

(U.G )PROGRAM OBJECTIVE	INTENDED OUTCOME
To recognize the scientific principles needed for the provision of high standard of oral health care.	<p>Integrate the essential knowledge of basic, biomedical, technical and clinical sciences by theoretical preparation for the effective practice of dentistry. Understand physiological and/or pathological structures, functions or behavior in accordance with the patient's age, health and circumstances, Apply this knowledge to common clinical situations.</p> <p>Have command of technical activities in a preclinical laboratory relating to restorative dentistry, prosthetic dentistry and endodontics.</p>
To practice evidence based dentistry in the provision of Performance high standard oral health care	<p>Collect accurate and detailed dental, medical and social information. Identify the necessary parameters for an intra-oral or extra-oral medical examination.</p> <p>Conduct a basic X-ray examination and interpret a set of clinical, radiographic and possibly laboratory results in order to make a diagnosis</p> <p>Make a common differential diagnosis and decide the final diagnosis from a number of alternatives.</p> <p>Be acquainted with the theoretical concepts</p> <p>Identify expectations of the patient in terms of needs and demands by active listening in a consultation context at a basic level Communicate with the patient, to an appropriate and adapted degree of complexity, to explain treatment options</p> <p>Be aware of his/her own skills and the limits of his/her expertise</p>
To acquire lifelong learning qualities, such as critical thinking, creativity, reading etc.	Describe the (relative) position of the clinical practice in relation to improving the health of the population and analyze the current challenges for health and the healthcare systems
To recognize and follow the rules & regulations that govern the dental profession	Be acquainted with the essential concepts concerning hygiene in a dental surgery and be able to prepare equipment effectively before a technical activity.
To increase graduates interest in dental research	The student should be able to undertake small projects of interest that translates into community effective initiatives

<b>(P.G) PROGRAM OBJECTIVE</b>	<b>INTENDED OUTCOME</b>
To demonstrate understanding of basic sciences relevant to speciality.	The student should be able to apply the knowledge of Basic sciences in understanding the relevant problems.
To take a proper clinical history, examine the patient, perform essential diagnostic procedures and order relevant tests and interpret them to come to a reasonable diagnosis about the condition	To practice evidence based dentistry.
To undertake audit, use information technology and carry out research in both basic and clinical area with the aim of publishing or presenting the work at various scientific gatherings.	Should be able to translate research work that is beneficial to the society, both in prevention and treatment.
Acquire adequate skills and competence in performing various procedures as required in the speciality	Should be able to provide multiple treatment options to the patient according to the need.
To identify social, economic, environmental and emotional determinants in a given case and take them into account for planned treatment	Adopt ethical principles in all aspects of practice, foster professional honesty and integrity and deliver patient care irrespective of the patient.
provide leadership and get the best out of his team in a congenial working atmosphere	To be able to work and respect his/her colleagues.
be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed. Respect patients rights and privileges including patients right to information and right to seek a second opinion.	To follow human values, ethical principles and communication attitude, that are in the interest of all stakeholders.

## **PROSTHODONTICS AND CROWN & BRIDGE**

**COGNITIVE:** The candidate would possess knowledge of applied basic and systemic medical sciences. The student shall acquire knowledge of various Dental Materials used in the specialty and be able to provide appropriate indication, understand the manipulation characteristics, compare with other materials available, be adept with recent advancements of the same. The Students would have acquired knowledge and practice of history taking, Diagnosis, treatment planning, prognosis, record maintenance of oral, craniofacial and systemic region. The student will have the ability for comprehensive rehabilitation concept with pre prosthetic treatment plan including surgical re-evaluation and prosthodontic treatment planning. Understanding of all the applied aspects of achieving physical, psychological well-being of the patients The theoretical knowledge and clinical practice shall include principles involved for support, retention, stability, esthetics, phonation, mastication, occlusion, behavioral, psychological, preventive and social aspects of Prosthodontics science of Oral and Maxillofacial Prosthodontics and Implantology

**AFFECTIVE AND PSYCHOMOTOR:** The student will be able to demonstrate the clinical competence necessary to carry out appropriate treatment at higher level of knowledge, training and practice skills currently available in their specialty area with a patient centered approach. The student will be able to apply the theoretical knowledge and carry out treatments of higher order by being able to examine the patients requiring Prosthodontic therapy, investigate the patient systemically, analyze the investigation results, radiographs, diagnose the ailment, plan the treatment, communicate it with the patient and execute it. The candidate will be able to restore lost functions of stomatognathic system like mastication, speech, appearance and psychological comforts by understanding biological, biomedical, bioengineering principles and systemic conditions of the patients to provide quality health care in the craniofacial regions. The candidate will be able to demonstrate good interpersonal, communication skills and team approach in interdisciplinary care by interacting with other specialties including medical specialty for planned team management of patients.

## **PERIODONTOLOGY:**

**COGNITIVE :**The student will be able to discuss the etiology, pathogenesis, diagnosis and management of common periodontal diseases with emphasis on Indian population. The student will be familiar with the biochemical, microbiologic and immunologic genetic aspects of periodontal pathology and understand the interrelationship between periodontal disease and various systemic conditions. The student will be able to provide various treatment modalities of periodontal disease from historical aspect to currently available ones. Decide regarding non-surgical or surgical management of the case. Shall develop knowledge, skill in the science and practice of Oral Implantology.

**AFFECTIVE & PSYCHOMOTOR SKILLS:** The student will have a thorough understanding of application of knowledge by attaining a clinical history, by examining the intra oral and extra oral structures, evaluation of medical history, advice essential diagnostic procedures and interpret them to come to a reasonable diagnosis. Provide effective motivation and education regarding periodontal disease maintenance after the treatment. Perform both non-surgical and surgical procedures independently and also provide Basic Life Support Service (BLS)

## **ORAL AND MAXILLOFACIAL SURGERY**

**COGNITIVE:** The student would have acquired adequate knowledge and understanding of the etiology, pathophysiology and diagnosis, treatment planning of various common oral and Maxillofacial surgical problems both minor and major in nature. Understanding of basic sciences relevant to practice of oral and maxillofacial surgery. To have understood the general surgical principles like pre and post surgical management, particularly evaluation, post surgical care, fluid and electrolyte management, blood transfusion and post surgical pain management. Would be able to identify social, cultural, economic, genetic and environmental factors and their relevance to disease process management in the oral and Maxillofacial region. The student shall have the essential knowledge of personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste.

**AFFECTIVE AND PSYCHOMOTOR SKILLS :** The student will possess the understanding to apply the obtained clinical history to the methodical examination of the patient, perform essential diagnostic procedures and order relevant laboratory tests and interpret them and to arrive at a reasonable diagnosis about the surgical condition. The student will be competent to perform minor oral surgical procedures and common maxillofacial surgeries. To treat both surgically and medically the problems of the oral and Maxillofacial and the related area.

## **CONSERVATIVE DENTISTRY AND ENDODONTICS**

**COGNITIVE:** The student will have an understanding of the etiology, pathophysiology and management of common restorative situations, endodontic situations that will include contemporary management of dental caries, management of trauma and pulpal pathosis including periodontal situations. Demonstrate understanding of basic sciences as relevant to conservative / restorative dentistry and Endodontics. Ability to master differential diagnosis and recognize conditions that may require multi disciplinary approach or a clinical situation outside the realm of the specialty, which he or she should be able to recognize and refer to appropriate specialist.

**AFFECTIVE AND PSYCHOMOTOR SKILLS:** The student will possess the understanding and application of the chair side history, examination of the patient and perform medical and dental diagnostic procedures as well as relevant tests and interpret to them to come to a reasonable diagnosis about the dental condition in general and Conservative Dentistry – Endodontics in particular. And undertake complete patient monitoring including preoperative as well as post-operative care of the patient. Perform all levels of restorative work, surgical and non-surgical Endodontics as well as endodontic-periodontal surgical procedures as part of multidisciplinary approach to clinical condition. Provide basic lifesaving support in emergency situations. Manage acute pulpal and pulp-periodontal situations. Have a thorough knowledge of infection control measures in the dental clinical environment and laboratories.

## **ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS**

**COGNITIVE:** The student will possess the knowledge of the etiology, pathophysiology, diagnosis and treatment planning of various common Orthodontic Problems. Understanding of the dynamic interaction of biologic processes and mechanical forces acting on the stomatognathic system during orthodontic treatment. Will have the knowledge of the basic sciences relevant to the practice of Orthodontics and the factors affecting the long-range stability of orthodontic correction and their management. The student will understand the social, cultural, economic, genetic and environmental implications and their relevance to management of oro – facial deformities.

**AFFECTIVE AND PSYCHOMOTOR SKILLS:** The student will be able to provide the various treatment modalities in Orthodontics either preventive, interceptive and or corrective by application of a proper clinical history, methodical examination of the patient, perform essential diagnostic procedures, and interpret them and arrive at a reasonable diagnosis about the Dento-facial deformities. The student will be competent to fabricate and manage the most appropriate appliance – intra or extra oral, removable or fixed, mechanical or functional, active or passive – for the treatment of any orthodontic problem to be treated singly or as a part of multidisciplinary treatment of oro-facial deformities.

## **ORAL & MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY**

**COGNITIVE:** The student will have a higher competence of understanding of the etiology, pathophysiology of oral and para oral diseases. The student will possess the knowledge to diagnose histopathologically various diseases and corroborate the clinical diagnosis and provide the clinician management options. The student will have an understanding of the tissues and their reaction to various chemical processes when subjected to. The student will have the essential knowledge of various laboratory procedures and their application.

**AFFECTIVE AND PSYCHOMOTOR SKILLS:** The student will be able to undertake independently laboratory procedures pertaining to processing of the tissue specimens not restricted to only soft by also hard tissue and also saliva and blood. The student will be able to carry out routine diagnostic procedures including hematological, cytological, microbiological, Immunological and ultra-structural investigations. He/she will have an understanding of current research methodology, collection and interpretation of data, ability to carry out research projects on clinical and or epidemiological aspects, a working knowledge on current databases, automated data retrieval systems, referencing and skill in writing scientific papers.

## **PUBLIC HEALTH DENTISTRY**

**COGNITIVE:** The student will possess knowledge of the applied basic sciences regarding etiology, diagnosis and management of the prevention, promotion and treatment of all the oral conditions at the individual and community level. Identify social, economic, environmental and emotional determinants in a given individual patient or a community for the purpose of planning and execution of Community Oral Health Program. Ability to conduct Oral Health Surveys in order to identify all the oral health problems affecting the community and find solutions using multi – disciplinary approach. Ability to act as a consultant in community Oral Health, teach, guide and take part in research (both basic and clinical), present and publish the outcome at various scientific conferences and journals, both national and international level.

**AFFECTIVE AND PSYCHOMOTOR SKILLS:** The student will be able to conduct clinical examination including all diagnostic procedures to arrive at diagnosis at the individual level and conduct survey of the community at state and national level of all conditions related to oral health to arrive at community diagnosis. Plan and perform all necessary treatment, prevention and promotion of Oral Health at the individual and community level. Plan appropriate Community Oral Health Program, conduct the program and evaluate, at the community level. Ability to make use of knowledge of epidemiology to identify causes and plan appropriate preventive and control measures. Develop appropriate person power at various levels and their effective utilization. Conduct survey and use appropriate methods to impart Oral Health Education. Develop ways of helping the community towards easy payment plan, and followed by evaluation for their oral health care needs. Develop the planning, implementation, evaluation and administrative skills to carry out successful community Oral Health Programs.

### **PEDIATRIC AND PREVENTIVE DENTISTRY**

**COGNITIVE:** The students will have a higher understanding of the principles of prevention and preventive dentistry right from birth to adolescence; will be able to guide and counsel the parents with regards to various treatment modalities including different facets of pediatric and preventive dentistry. They will be able to identify various conditions and diseases in the developing child and also instill a positive attitude and behavior in children towards dentistry and future dental visits.

**AFFECTIVE AND PSYCHOMOTOR SKILLS:** The students will be able to obtain a proper clinical history, methodological examination of the child patient, perform essential diagnostic procedures while interpreting them and arriving at a reasonable diagnosis and treat appropriately. They will be competent to treat dental diseases/ conditions which are occurring in child patients and manage to repair or restore the lost tooth structure to maintain harmony between both hard and soft tissues of the oral cavity. They will have the competence to manage the disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions. They will also be able to use the acquired skills in managing the life threatening conditions efficiently with emphasis on basic life support measures.

### **ORAL MEDICINE AND RADIOLOGY**

**COGNITIVE:** The students will have the necessary theoretical, clinical knowledge of all diseases that affect the oral and para-oral structures. They will have the ability to apply the principles of basic sciences, diagnostic procedures pertaining to them and latest information of imaging modules.

**AFFECTIVE AND PSYCHOMOTOR SKILLS:** Important skills need to be imparted in maxillofacial diseases, Diagnostic skills in recognition of oral diseases by obtaining proper history, thorough clinical examination; usage of required imaging and laboratory diagnostic aids along with their management. Research skills in handling scientific problems pertaining to oral diseases management. Clinical and didactic skills in encouraging younger dentists to attain learning objectives.