



MAEER'S  
**MAHARASHTRA INSTITUTE OF DENTAL  
SCISCIENCES & RESEARCH (DENTAL COLLEGE)**



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## **2.6.1 Relevant Documents Pertaining To Learning Outcomes And Graduate Attributes**



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## 1. DEPARTMENT OF ORAL PATHOLOGY

### SPECIFIC COURSE OUTCOME

The goal of the I BDS / III BDS courses in department of Oral Pathology & Microbiology is to develop professional and skilled dental graduates who serve the society responsibly.

The dental graduates during training in the institutions should acquire adequate knowledge, necessary skills and reasonable attitudes which are required for carrying out all activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues.

The graduate also should understand the concept of proper identification and diagnosis of oral diseases and be able to impart that knowledge to prevent and control oral diseases and promote oral health in day-to-day practice.

### SPECIFIC COURSE INTENDED LEARNING OUTCOME

#### OBJECTIVES:

The objectives are dealt under three headings of: - a. Knowledge and understanding.

b. Skills.

c. Attitudes.

#### A) KNOWLEDGE AND UNDERSTANDING:

The graduate should acquire the following during the period of training of I BDS course

1. At the conclusion of the I BDS course the student expected to appreciate the normal development, morphology, structure and functions of oral tissues and variations in different pathological/ non-pathological states.
2. The student should understand the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.
3. The students must know the basic knowledge of various research methodologies.
4. Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also bearing on physical and social well being of the patient.

The graduate should acquire the following knowledge during the period of training of III BDS Course.

1. At the end of oral pathology and Oral Microbiology course, the student should be able to comprehend the different types of pathological processes that involve the oral cavity.



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2. The student should be able to understand the manifestation of common diseases, their diagnosis and correlation with clinical pathological processes.
3. An understanding of the oral manifestations of systemic disease should help in correlating with the systemic physical signs and laboratory findings.
5. Apply basic sciences knowledge regarding etiology, diagnosis and management of the prevention, promotion and treatment of all the oral conditions at the individual and community level.
6. Adequate knowledge of clinical disciplines and methods which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws.

**(B) SKILLS:**

At the conclusion of the course the students shall require to have the skill to identifying dental health problems affecting the society. Students should develop a positive attitude towards the dental problems of the society and must take responsibilities in providing adequate oral health.

**I BDS** graduate should be able to demonstrate the following skills necessary for practice of dentistry.

1. Carving of crowns of permanent teeth in wax.
2. Microscopic identification of the oral and para-oral structures.
3. Identification of Deciduous & Permanent teeth.
4. Age estimation by patterns of teeth eruption from plaster casts of different age groups.
5. Able to diagnose and manage various common dental problems encountered in general dental practice keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible.

**III BDS** graduate should be able to demonstrate the following skills necessary for practice of dentistry.

1. Microscopic study of common lesions affecting oral tissues through microscopic slides & projection slides.
2. Study of the disease process by surgical specimen study of teeth anomalies/polymorphisms through tooth specimens & plaster casts.
3. Microscopic study of plaque pathogens.
4. Study of hematological preparations (blood films) of anemia's & leukemia's.
5. Basic exercises in Forensic Odontology such as histological methods of age estimation and appearance of teeth in injuries.
6. Basic exercises in seminar presentation.
7. To explain & share information and professional knowledge with other professionals, verbally and in writing.

**(C) ATTITUDES:**

A graduate should develop the following attitudes during the training period of BDS course.

  
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At the conclusions of the course the student should be able to communicate the dental needs of the community efficiently and inform the society of all the recent advancements in preventing and treatment of oral disease.

1. Willing to apply the current knowledge of dentistry in the best interest of the patients and the community.
2. Maintain a high standard of professional ethics and conduct & apply these in all aspects of professional life.
3. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
4. Willingness to participate in the CDE Programs to update the knowledge and professional skill from time to time.
5. To help and participate in the implementation of the national oral health policy.

### COMPETENCIES

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

#### **General Skills**

1. Apply knowledge & skills of subject in diagnosing the oral diseases day to day practice.
2. Basic study of forensic odontology.
3. Self-assessment & willingness to update the knowledge & skills from time to time.
4. Involvement in simple research projects.
5. Refer patients for consultation and specialized treatment.

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## 2. DEPARTMENT OF PERIODONTOLOGY

### Learning objectives for Under Graduate Course

#### GOALS:

- The dental graduates during training in the institutions should acquire adequate knowledge, necessary skills and reasonable attitudes which are required for carrying out all activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues.
- The graduate also should understand the concept of community oral health education and be able to participate in the rural health care delivery programmes existing in the country.

#### PERIODONTOLOGY -

#### OBJECTIVES:

- The student shall acquire knowledge to diagnose the disease, make appropriate treatment plan and to conduct different treatment modalities.
- The student shall acquire the skill to perform dental scaling, diagnostic tests of periodontal diseases.
- Students shall develop skills to use the instruments for periodontal therapy and maintenance of the same.
- The student shall develop attitude to impart the preventive measures namely, the prevention of periodontal diseases and prevention of the progress of the disease.
- The student shall develop communication skills to make rapport with patient and shall encourage patient to emphasize preventing measures of the disease in daily life and to encourage patient about treatment and prevention of disease.
- The student shall also develop an attitude to perform the treatment with full aseptic precautions; shall develop an attitude to prevent iatrogenic diseases; to conserve the tooth to the maximum possible time by maintaining periodontal health and to refer the patients who require specialist's care.

#### TUTORIALS DURING CLINICAL POSTING:

1. Infection control
2. Periodontal instruments
3. Chair position and principles of instrumentation
4. Maintenance of instruments (sharpening)

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5. Ultrasonic, Piezoelectric and sonic scaling – demonstration of technique
  6. Diagnosis of periodontal disease and determination of prognosis
  7. Radiographic interpretation and lab investigations
  8. Motivation of patients- oral hygiene instructions
- Students should be able to record a detailed periodontal case history, determine diagnosis, prognosis and plan treatment. Student should perform scaling, root planning local drug delivery and SPT.
  - Shall be given demonstration of all periodontal surgical procedures.

#### DEMONSTRATIONS:

1. History taking and clinical examination of the patients
2. Recording different indices
3. Methods of using various scaling and surgical instruments
4. Polishing the teeth
5. Bacterial smear taking
6. Demonstration to patients about different oral hygiene aids
7. Surgical procedures- gingivectomy, gingivoplasty, and flap operations
8. Follow up procedures, post-operative care and supervision

#### REQUIREMENTS:

1. Diagnosis, treatment planning and discussion and total periodontal treatment – 25 cases
2. Dental scaling, oral hygiene instructions – 50 complete cases/ equivalent
3. Assistance in periodontal surgery – 5 cases
4. A work record should be maintained by all the students and should be submitted at the time of examination after due certification from the head of the department.
5. Students should have to complete the work prescribed by the concerned department from time to time and submit a certified record for evaluation.

  
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## Learning Objectives for Post Graduate Course

### HUMAN VALUES, ETHICAL PRACTICE AND COMMUNICATION ABILITIES:

- Adopt ethical principles in all aspects of practice.
- Foster professional honesty and integrity.
- Deliver patient care irrespective of social status, caste, creed, or religion of the patient.
- Develop communication skills, to explain various options available and obtain a true informed consent from the patient.
- Provide leadership and get the best out of his team in a congenial working atmosphere.
- Apply high moral and ethical standards while carrying out human or animal research
- Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed.
- Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

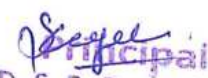
### OBJECTIVES:

The following objectives are laid out to achieve the goals of the course

#### A) KNOWLEDGE:

The post graduate student shall gain knowledge and shall able to -

- Discuss historical perspective to advancement in the subject proper and related topics.
- Describe etiology, pathogenesis, diagnosis and management of common periodontal diseases with emphasis on Indian population.
- Familiarize with the biochemical, microbiologic and immunologic genetic aspects of periodontal pathology.
- Describe various preventive periodontal measures.
- Describe various treatment modalities of periodontal disease from historical aspect to currently available ones.
- Describe interrelationship between periodontal disease and various systemic conditions.
- Describe periodontal hazards due to iatrogenic causes and deleterious habits and prevention of it.
- Identify rarities in periodontal disease and environmental/Emotional determinates in a given case.
- Recognize conditions that may be outside the area of his/her Speciality/ competence and refer them to an appropriate Specialist.

  
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- Decide regarding non-surgical or surgical management of the case.
- Update the student by attending courses, conferences and seminars relevant to periodontics or by self-learning process.
- Plan out/ carry out research activity both basic and clinical aspects with the aim of publishing his/her work in scientific journals.
- Reach to the public to motivate and educate regarding periodontal disease, its prevention and consequences if not treated.
- Plan out epidemiological survey to assess prevalence and incidence of early onset periodontitis and adult periodontitis in Indian population (Region wise).
- Shall develop knowledge, skill in the science and practice of Oral Implantology.
- Shall develop teaching skill in the field of Periodontology and Oral Implantology.
- Principals of Surgery and Medical Emergencies.
- To sensitize students about inter disciplinary approach towards the soft tissues of the oral cavity with the help of specialist from other departments.

**B) SKILLS:**

- Take a proper clinical history, thorough examination of intra oral, extra oral, medical history evaluation, advice essential diagnostic procedures and interpret them to come to a reasonable diagnosis.
- Effective motivation and education regarding periodontal disease maintenance after the treatment.
- Perform both non-surgical & education regarding periodontal disease, maintenance after the treatment.
- Perform both non-surgical and surgical procedures independently.
- Provide Basic Life Support Service (BLS) recognizes the need for advance life support and does the immediate need for that.
- Human values, ethical practice to communication abilities.
- Adopt ethical principles in all aspects of treatment modalities; Professional honesty & integrity are to be fostered.
- Develop Communication skills to make awareness regarding periodontal disease.
- Apply high moral and ethical standards while carrying out human or animal research.
- Be humble, accept the limitations in his/her knowledge and skill, and ask for help from colleagues when needed, Respect patient's rights and privileges, including patients right to information and right to seek a second opinion.
- To learn the principal of lip repositioning and perio esthetics surgeries.



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### 3. DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY

#### Learning Outcomes For Undergraduate Course

##### GOALS:

The dental graduates during training in the institutions should acquire adequate knowledge, necessary skills and reasonable attitudes which are required for carrying out all activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues.

The graduate also should understand the concept of community oral health education and be able to participate in the rural health care delivery programmes existing in the country.

##### OBJECTIVES:

1. The student shall acquire knowledge to diagnose the disease, make appropriate treatment plan and to conduct different treatment modalities.
2. The student shall acquire the skill to perform extractions, suturing techniques.
3. Students shall develop skills to use the instruments for extractions and maintenance of the same.
4. The student shall develop attitude to impart the preventive measures namely, the prevention of diseases and prevention of the progress of the disease.
5. The student shall develop communication skills to make rapport with patient and shall encourage patient to emphasize preventing measures of the disease in daily life and to encourage patient about treatment and prevention of disease.

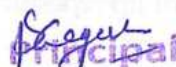
#### Learning Objective for Post Graduate Course

##### OBJECTIVES:

The training program in Oral and Maxillofacial Surgery is structured to achieve the following five objectives-

- Knowledge
- Skills
- Attitude
- Communicative skills and ability
- Research

##### KNOWLEDGE:

  
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- To have acquired adequate knowledge and understanding of the etiology, patho physiology and diagnosis, treatment planning of various common oral and Maxillofacial surgical problems both minor and major in nature
- 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.
- Understanding of basic sciences relevant to practice of oral and maxillofacial surgery
- Able to identify social, cultural, economic, genetic and environmental factors and their relevance to disease process management in the oral and maxillofacial region.
- Essential knowledge of personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste keeping in view the high prevalence of hepatitis and HIV.

**SKILLS:**

- To obtain proper clinical history, 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.
- To perform with competence minor oral surgical procedures and common maxillofacial surgery. To treat both surgically and medically the problems of the oral and Maxillofacial and the related area.
- Capable of providing care for maxillofacial surgery patients.

**ATTITUDE:**

- Develop attitude to adopt ethical principles in all aspect of surgical practice, professional honesty and integrity are to be fostered. Surgical care is to be delivered irrespective of the social status, caste, creed or religion of the patient.
- Willing to share the knowledge and clinical experience with professional colleagues.
- Willing to adopt new techniques of surgical management developed from time to time based on scientific research which are in the best interest of the patient
- Respect patient right and privileges, including patients right to information and right to seek a second opinion.
- Develop attitude to seek opinion from an allied medical and Dental specialists as and when required.

**COMMUNICATION SKILLS:**

Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular surgical problem and obtain a true informed consent from them for the most appropriate treatment available at that point of time

- Develop the ability to communicate with professional colleagues.
- Develop ability to teach undergraduates.



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## 4. DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY

### LEARNING OUTCOME FOR UNDERGRADUATES

Course is about teaching Oral Medicine & Radiology to students. The goals of teaching & learning are to diagnose Oral lesions & treat them. Learning to students by various methods like lecture with help of PPT, demonstrations and group discussion, 1:1 case discussions are carried out. The slow learner will be given special attendance to their learning skills thorough 1:1 subject discussion & and also address their concern to subject.

We assess our students by conducting internal assessment on regular basis. The low performing students are given a chance to improve their marks through Betterment exams & also discuss their concern for low performance & boost their knowledge and confidence. The students also take advantage of college library for references. The students are made comfortable to discuss their doubts at any time. Our students are encouraged to participate in various conferences. Their success is visible in their participation in various activities & the awards won.

Our students made confident and knowledgeable in basics and clinical aspect with various learning methods and aids.

1. Students are thought about the importance of informed consent and communication skills.
2. Systematic approach for case history taking.
3. Performance of physical examination of Oral structures.
4. Practice of radiation protection protocols for students and patients.
5. Clinical examination & diagnosis of oromucosal lesions.
6. Tobacco related lesions, counseling and treatment.
7. Oral cancer diagnosis & Management
8. TMJ examination diagnosis and treatment
9. Dental consideration of systemic diseases and management of medically compromised patient.
10. To differentiate normal and pathology in Medicine & Radiology.
11. Systematic approach for radiograph reading and interpretation of IOPA, OPG and CBCT images.
12. The importance and implementation of quality assurance in radiology.
13. Segregation and disposal of biomedical waste generated during case history taking and radiographic procedures.
14. Research oriented teaching and learning is performed.



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## 5. DEPARTMENT OF PROSTHODONTICS LEARNING OUTCOME FOR UNDERGRADUATES – II BDS

### Pre- clinical Prosthodontics:

- Dental students with good knowledge of landmarks in edentulous patients would be able to do all the laboratory procedures in order to fabricate complete denture.

### Dental Material:


- To understand the evolution and development of science of dental material
- To explain purpose of course in dental materials to personnel concerned with the profession of the dentistry
- Knowledge of physical and chemical properties
- Knowledge of biomechanical requirement of particular restorative procedure
- An intelligent compromise of the conflicting as well as co-coordinating factors into the desired Ernest
- Laying down standards or specification of various materials to guide to manufactures as well as to help professionals
- Search for newer and better materials which may answer our requirements with greater satisfaction. To understand and evaluate the claims made by manufactures of dental materials.

## LEARNING OUTCOME FOR UNDERGRADUATES – IV BDS

### Prosthodontics Crown and Bridge:

#### OBJECTIVES:

- Dental graduate with experience of patients prosthetic needs fabrication of all Prosthodontic mode of treatment.
- Dental graduate who is able to diagnose, inspire and treat patients with complete and partial dentures who are fully and partially edentulous
- Dental graduate who is qualified enough to recognize and refer cases needing specialist prosthodontic care for further follow-up.



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## LEARNING OUTCOME FOR POSTGRADUATES

### GENERAL OBJECTIVE OF THE COURSE

- To have adequate acquired knowledge and understanding of applied basic and systemic medical sciences, both in general and in particularly in head and neck region.
- The postgraduate should able to provide the prosthodontic therapy for patients with competence and working knowledge with understanding applied medical, behavioral and clinical science, that are beyond the treatment skills of the general BDS graduate and MDS graduate for other specialties.
- To demonstrate evaluative and judgment skills in making appropriate decisions regarding prevention treatment after care and referrals to deliver comprehensive care to patients.

### KNOWLEDGE:

The candidate should possess knowledge of applied basic and systemic medical sciences.

- On human anatomy, embryology, histology, applied in general and particularly to head and neck, Physiology & Biochemistry, Pathology Microbiology & virology; health and diseases of various systems of the body (systemic) principles in surgery and medicine, pharmacology, nutrition, behavioral science, age changes, genetics, Immunology, Congenital defects & syndromes and Anthropology, Bioengineering, Bio-medical & Biological Principles
- 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
- Students shall acquire knowledge and practice of history taking, Diagnosis, treatment planning, prognosis, record maintenance of oral, craniofacial and systemic region.
- Ability for comprehensive rehabilitation concept with pre prosthetic treatment plan including surgical re-evaluation and prosthodontic treatment planning, impressions, jaw relations, utility of face bows, articulators, selection and positioning of teeth, teeth arrangement for retention, stability, esthetics, phonation, psychological comfort, fit and insertion.
- Instructions for patients in after care and preventive Prosthodontics and management of failed restorations shall be possessed by the students.

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- Understanding of all the applied aspects of achieving physical, psychological well-being of the patients for control of diseases and / or treatment related syndromes with the patient satisfaction and restoring function.
- Ability to diagnose and plan treatment for patients requiring Prosthodontic therapy
- Ability to read and interpret radiographs, and other investigations for the purpose of diagnosis and treatment planning.
- 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
- Tooth and tooth surface restorations, Complete denture Prosthodontics, removable partial denture Prosthodontics, fixed prosthodontics and maxillofacial and Craniofacial Prosthodontics, implants and implant supported Prosthodontics, T.M.J. and occlusion, craniofacial esthetics, and biomaterials; craniofacial disorders, problems of psychogenic origin.
- Should have knowledge of age changes, geriatric psychology, nutritional considerations and prosthodontic therapy in the aged population.
- Should have ability to diagnose failed restoration and provide prosthodontic therapy and after care. Should have essential knowledge on ethics, laws, and Jurisprudence and Forensic Odontology in Prosthodontics.
- Should know general health conditions and emergency as related to prosthodontics treatment like allergy of various materials and first line management of aspiration of prosthesis
- Should identify social, cultural, economy, environmental, educational and emotional determinants of the patient and consider them in planning the treatment.
- Should identify cases, which are outside the area of his specialty/competence, refer them to appropriate specialist and interdisciplinary case management. perform to advice regarding case management
- Should have an ability to plan and establish Prosthodontics clinic/hospital department and practice management.
- Should have a sound knowledge (of the applications in pharmacology, effects of drugs on oral tissues and systems of body and in medically compromised patients

**SKILLS:**

- The candidate should be 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.
- To understand the prevalence and prevention of diseases of craniomandibular system related to prosthetic dentistry. The candidate should be able to restore lost functions of



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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 should 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 for craniofacial & oral acquired and congenital defects, temporomandibular joint syndromes, esthetics, Implant supported Prosthetics and problems of Psychogenic origins
- To identify target diseases and create awareness amongst the population regarding prosthodontic therapy.
- To perform Clinical and Laboratory procedures with a clear understanding of biomaterials, tissue conditions related to prosthesis and have required dexterity & skill for performing clinical and laboratory all procedures in fixed, removable, implant, maxillofacial, Prosthodontics, TMJ and esthetics
- To carry out necessary adjunctive procedures to prepare the patient before prosthesis like tissue preparation and preprosthetic surgery and to prepare the patient before prosthesis / prosthetic procedures
- To understand demographic distribution and target diseases of Cranio mandibular region related to Prosthodontics.

#### **ATTITUDES:**

A graduate should develop during the training period the following attitudes.

- Willing to apply the current knowledge of dentistry in the best interest of the patients and the community.
- Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
- Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
- Willingness to participate in the CDE Programmers' to update the knowledge and professional skill from time to time.
- To help and participate in the implementation of the national oral health policy.

#### **COMMUNICATIVE ABILITIES:**

- To develop communication skills in particular and to explain treatment options available in the management
- To provide leadership and get the best out of his /her group in congenial working atmosphere.
- Should be able to communicate in a simple understandable language with the patient and explain the principles of Prosthodontics to patient.

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- He/She should be able to guide and council the patient with regard to various treatment modalities available.
- To devolve the ability to communicate with professional colleagues through various media like internet, emails, videoconference etc. to give the best possible treatment should demonstrating ability as a teacher in order to facilitate learning among students.

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## 6. DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS

### LEARNING OUTCOME FOR UNDERGRADUATES – II BDS

#### GOALS:

The dental Students during training in the institutions should acquire adequate knowledge, necessary skills and reasonable attitudes which are required for carrying out all activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues. The Student also should understand the concept of community oral health education and be able to participate in the rural health care delivery programmes existing in the country.

**OBJECTIVES:** The objectives are dealt under three headings (a) Knowledge and understanding (b) skills and (c) Attitudes.

#### **(A) KNOWLEDGE AND UNDERSTANDING:**

The Student should acquire the following during the period of training.

1. Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and be able to evaluate and analyse scientifically various established facts and data.
2. Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also bearing on physical and social well being of the patient.
3. Adequate knowledge of clinical disciplines and methods which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws and preventive diagnostic and therapeutic aspects of dentistry.
4. Adequate clinical experience required for general dental practice.
5. Adequate knowledge of the constitution, biological function and behaviour of persons in health and sickness as well as the influence of the natural and social environment on the state of health in so far as it affect dentistry.

  
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**(B) SKILLS:**

A Student should be able to demonstrate the following skills necessary for practice of dentistry.

1. Able to diagnose and manage various common dental problems encountered in general dental practice keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible.
2. Acquire the skill to prevent and manage complications if encountered while carrying out various surgical and other procedures.
3. Possess skill to carry out certain investigative procedures and ability to interpret laboratory findings.
4. Promote oral health and help prevent oral diseases where possible.
5. Competent in the control of pain and anxiety among the patients during dental treatment.

**(C) ATTITUDES:**

A Student should develop during the training period the following attitudes.

1. Willing to apply the current knowledge of dentistry in the best interest of the patients and the community
2. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
3. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
4. Willingness to participate in the CDE Programmes to update the knowledge and professional skill from time to time.
5. To help and participate in the implementation of the national oral health policy.

**LEARNING OUTCOME FOR POSTGRADUATES**

**GENERAL LEARNING OBJECTIVES**

**GOALS:**

The goals of the post-graduate training in various specialities is to train the graduate in Dental Surgery who will,

- a. practice respective speciality efficiently and effectively, backed by scientific knowledge and skill;
- b. exercise empathy and a caring attitude and maintain high ethical standards;



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- c. continue to evince keen interest in professional education in the speciality and allied specialities whether in teaching or practice;
- d. willing to share the knowledge and skills with any learner, junior or a colleague;
- e. to develop the faculty for critical analysis and evaluation of various concepts and views and to adopt the most rational approach.

**OBJECTIVES:**

The objective of the post-graduate training is to train a student so as to ensure higher competence in both general and special area of interest and prepare him or her for a career in teaching, research and speciality practice. A student must achieve a high degree of clinical proficiency in the subject and develop competence in research and its methodology in the concerned field.

The objectives to be achieved by the candidate on completion of the course may be classified as under:-

- (a) Knowledge (Cognitive domain)
- (b) Skills (Psycho motor domain)
- (c) Human values, ethical practice and communication abilities

**KNOWLEDG:**

At the end of 36 months of training, the candidates should be able to:

- Describe etiology, pathophysiology, periapical diagnosis 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.
- Identify social, economic, environmental and emotional determinants in a given case or community and take them into account for planning and execution at individual and community level.
- 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.

  
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- Update himself by self-study and by attending basic and advanced courses, conferences, seminars, and workshops in the specialty of Conservative Dentistry-Endodontics-Dental Materials and Restorative Dentistry.
- Ability to teach/guide, colleagues and other students. Use information technology tools and carry out research both basic and clinical with the aim of publishing his work and presenting the same at scientific platform.

**SKILLS:**

- Take proper chair side history, examine the patient and perform medical and dental diagnostic procedures as well as perform 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 life saving support in emergency situations
- • Manage acute pulpal and pulpo periodontal situations.
- Have a thorough knowledge of infection control measures in the dental clinical environment and laboratories.
- Should have proper knowledge of sterilization procedures

**HUMAN VALUES, ETHICAL PRACTICE AND COMMUNICATION ABILITIES:**

- Adopt ethical principles in all aspects of restorative and contemporary Endodontics including non-surgical and surgical Endodontics.
- Professional honesty and integrity should be the top priority.
- Dental care has to be provided regardless of social status, caste, creed or religion of the patient.
- Develop communication skills in particular to explain various options available for management and to obtain a true informed consent from the patient.
- Apply high moral and ethical standards while carrying on human or animal research.
- He/She shall not carry out any heroic procedures and must know his limitations in performing all aspects of restorative dentistry including Endodontics. Ask for help from colleagues or seniors when required without hesitation.
- Respect patient's rights and privileges including patient's right to information..



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## 7. ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

### LEARNING OUTCOME FOR POSTGRADUATES

- Able to list the indications and components, comprehend the mechanism of action and
- select appropriate removable orthodontic appliance in any given clinical scenario
- Able to recall the steps, fabricate the components of Hawley's removable orthodontic appliance and also acrylize Hawley's and habit breaking appliance accurately in a preclinical condition
- Able to recall the steps, fabricate and insert the appliance, give instructions and follow up in a clinical condition
- Able to describe the functional development of dental arches and occlusion, growth & development of the jaws
- Able to elicit history, perform a clinical examination and diagnose the malocclusion in a clinical scenario
- Able to explain the uses of IOPA, OPG and lateral cephalogram pertaining to orthodontic diagnosis
- Able to interpret IOPA, OPG and trace / interpret lateral cephalogram pertaining to orthodontic diagnosis
- Able to select and use appropriate instruments for fabrication of removable orthodontic appliances
- Able to recall the composition and properties of alginate, dental stone, heat cure & self cure acrylic and commonly used orthodontic wires
- Able to demonstrate manipulation of alginate and impression making for a patient
- Able to manipulate dental stone & self cure acrylic and perform necessary wire bending
- Able to explain the malocclusion & treatment plan and give post appliance insertion instructions to patient

### LEARNING OUTCOME FOR UNDERGRADUATES

#### OBJECTIVES:

The training programme in Orthodontics is to structure and achieve the following four objectives

#### KNOWLEDGE:

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- The dynamic interaction of biologic processes and mechanical forces acting on the stomatognathic system during orthodontic treatment
- The etiology, pathophysiology, diagnosis and treatment planning of various common Orthodontic problems
- Various treatment modalities in Orthodontics – preventive, interceptive and corrective.
- Basic sciences relevant to the practice of Orthodontics
- Interaction of social, cultural, economic, genetic and environmental factors and their relevance to management of oro- facial deformities
- Factors affecting the long-range stability of orthodontic correction and their management
- Personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste, keeping in view the high prevalence of Hepatitis and HIV and other highly contagious diseases.

**SKILLS:**

- To obtain 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.
- To be competent to fabricate and manage the most appropriate appliance – intra or extra oral,
- Removable or fixed, mechanical or functional, and active or passive – for the treatment of any orthodontic problem to be treated singly or as a part of multidisciplinary treatment of orofacial deformities.

**ATTITUDE:**

- Develop an attitude to adopt ethical principles in all aspects of Orthodontic practice.
- Professional honesty and integrity are to be fostered
- Treatment care is to be delivered irrespective of the social status, cast, creed and religion of the patients.
- Willingness to share the knowledge and clinical experience with professional colleagues
- Willingness to adopt, after a critical assessment, new methods and techniques of orthodontic management developed from time to time based on scientific research, which are in the best interest of the patient
- Respect patients' rights and privileges, including patient's right to information and right to seek a second opinion
- Develop attitude to seek opinion from allied medical and dental specialists as and when required

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**COMMUNICATION SKILLS:**

- Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular Dento-facial problem and to obtain a true informed consent from them for the most appropriate treatment available at that point of time.
- Develop the ability to communicate with professional colleagues, in Orthodontics or other specialties through various media like correspondence, Internet, e-video, conference, etc. to
- Render the best possible treatment.

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## 8. DEPARTMENT OF PUBLIC HEALTH DENTISTRY LEARNING OUTCOME FOR UNDERGRADUATES

The dental graduates during training in the institutions should acquire adequate knowledge, necessary skills and reasonable attitudes which are required for carrying out all activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues. The graduate also should understand the concept of community oral health education and be able to participate in the rural health care delivery programmes existing in the country, to prevent and control oral diseases and promote oral health through organized community efforts.

### OBJECTIVES:

The objectives are dealt under three headings (a) Knowledge and understanding (b) skills and (c) Attitudes.

### (A) KNOWLEDGE AND UNDERSTANDING:

The graduate should acquire the following during the period of training.

1. At the conclusion of the course the student shall have a knowledge of the basis of public health, preventive dentistry, public health problems in India, Nutrition, Environment and their role in health, basics of dental statistics, epidemiological methods, National oral health policy with emphasis on oral health policy.
2. To have adequate knowledge and understand the basic principles of epidemiology, environmental care, health education and public health administration at community level
3. Apply basic sciences knowledge regarding etiology, diagnosis and management of the prevention, promotion and treatment of all the oral conditions at the individual and community level.
4. To have knowledge about how to conduct research and Oral Health Surveys in order to identify all the oral health problems affecting the community and find solutions using multi-disciplinary approach.
5. Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and be able to evaluate and analyze scientifically various established facts and data.
6. Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also bearing on physical and social well being of the patient



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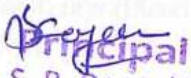
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7. Adequate knowledge of clinical disciplines and methods which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws and preventive diagnostic and therapeutic aspects of dentistry.
8. Adequate clinical experience required for general dental practice.
9. Adequate knowledge of the constitution, biological function and behaviour of persons in health and sickness as well as the influence of the natural and social environment on the state of health in so far as it affect dentistry.

**(B) SKILLS:**

At the conclusion of the course the students shall have require at the skill of identifying health problems affecting the society, conducting health surveys, conducting health education classes and deciding health strategies. Students should develop a positive attitude towards the problems of the society and must take responsibilities in providing health. A graduate should be able to demonstrate the following skills necessary for practice of dentistry.

1. Able to diagnose and manage various common dental problems encountered in general dental practice keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible.
2. Acquire the skill to prevent and manage complications if encountered while carrying out various surgical and other procedures.
3. Possess skill to carry out certain investigative procedures and ability to interpret laboratory findings.
4. Dental graduate with basic skills in identifying oral health problems, collecting data on oral health problems prevailing in the country through surveys, developing strategies for their control at individual and community levels. and
5. Dental graduate with potential to efficiently communicate needs of the community, simple self care strategies to promote oral health of population.
6. Promote oral health and help prevent oral diseases where possible.
7. Competent in the control of pain and anxiety among the patients during dental treatment.
8. Take case history, conduct clinical examination, indices recording to arrive at diagnosis and treatment planning.
9. Plan appropriate Community Oral Health Program, conduct the program and evaluate, at the community level.
10. To perform hands on procedure – pit and fissure sealants & topical fluoride application.
11. Establish effective & interactive communication with patients & their relatives, irrespective of age, social and cultural background.
12. To establish a patient dentist relationship that allows effective delivery of dental treatment.

  
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13. To identify patient expectations and attitudes (needs and demands) when considering treatment planning and during treatment.
14. To explain & share information and professional knowledge with both the patient and other professionals, verbally and in writing.
15. Providing humane and compassionate care to all patients irrespective of socio economic status, gender and education.
16. Practicing with personal and professional integrity, honesty and truthfulness.
17. Respecting patient's rights, particularly in regards to confidentiality and informed consent.
18. Producing and maintaining an accurate patients treatment and medico-legal record
19. Selecting and prioritizing treatment options that are sensitive to each individuals need.

### (C) ATTITUDES:

A graduate should develop during the training period the following attitudes.

At the conclusions of the course the student should be able to communicate the needs of the community efficiently, inform the society of all the recent methodologies in preventing oral disease

1. Willing to apply the current knowledge of dentistry in the best interest of the patients and the community.
2. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
3. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
4. Willingness to participate in the CPED Programmes to update the knowledge and professional skill from time to time.
5. To help and participate in the implementation of the national oral health policy.

### COMPETENCIES

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



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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.
- 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

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## 9. DEPARTMENT OF PAEDIATRIC & PREVENTIVE DENTISTRY

### LEARNING OUTCOME FOR UNDERGRADUATES

The dental graduates during training in the institutions should acquire adequate knowledge, necessary skills and reasonable attitudes which are required for carrying out all activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues. The graduate also should understand the concept of community oral health education and be able to participate in the rural health care delivery programmes existing in the country.

#### OBJECTIVES:

The outcomes are dealt under three headings (a) Knowledge and understanding (b) skills and (c) Attitudes.

#### KNOWLEDGE AND UNDERSTANDING:

The graduate should acquire the following during the period of training.

- Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and be able to evaluate and analyze scientifically various established facts and data.
- Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also bearing on physical and social well being of the patient.
- Adequate knowledge of clinical disciplines and methods which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws and preventive diagnostic and therapeutic aspects of dentistry.
- Adequate clinical experience required for general dental practice.
- Adequate knowledge of the constitution, biological function and behavior of persons in health and sickness as well as the influence of the natural and social environment on the state of health in so far as it affect dentistry.



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**SKILLS:**

A graduate should be able to demonstrate the following skills necessary for practice of dentistry.

- Able to diagnose and manage various common dental problems encountered in general dental practice keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible.
- Acquire the skill to prevent and manage complications if encountered while carrying out various surgical and other procedures.
- Possess skill to carry out certain investigative procedures and ability to interpret laboratory findings.
- Promote oral health and help prevent oral diseases where possible.
- Competent in the control of pain and anxiety among the patients during dental treatment.

**ATTITUDES:**

A graduate should develop during the training period the following attitudes.

- Willing to apply the current knowledge of dentistry in the best interest of the patients and the community.
- Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
- Seek to improve awareness and provide possible solutions for oral health problems and needs through out the community.
- Willingness to participate in the CPED Programmes to update the knowledge and professional skill from time to time.
- To help and participate in the implementation of the national oral health policy.

**COURSE OUTCOME FOR UNDERGRADUATE**

**1. Formative assessment-**

Over the study course the teachers use continuous evaluation to assess and enhance performance of the students. The approaches used generate valuable information to evaluate an individual's knowledge and skills development, assess strategic reasoning, decision-making and problem-solving capabilities. The methods employed include viva voce and internal assessment during delivery of the course. They allow trainers to monitor the Extension of achievement of course outcomes. Its main objective is to identify the shortcomings in such a way that the correct Learning interventions which encourage students to master the necessary skills and knowledge.

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**2. The clinical /practical examination:**

The clinical /practical examination includes different procedures for the candidate to express their skills. Examinations can include clinical procedures, lab experiments, spotters, instrument description, etc.

**3. Attendance & Records/Log Books:**

The candidate should be assessed based on regular attendance (Theory-75% & Practical/clinical-80%), clinical records books and scores obtained in the record.

**4. End posting Clinical and practical examinations:**

Clinical procedures/experiments to be performed and to be discussed with faculty. Faculty will assess their presentation and clinical skills.

**5. Viva voce:**

Viva voce can determine the student's problem solving skill. An effective-domain evaluation is also possible through viva voce.

**6. Seminar:**

The students are expected to present a seminar during course period. The purpose of the presentation of the seminar is to evaluate the interactions of students with students and teachers on assigned topic. The competencies in information, planning, presentation and communication are evaluated.

**7. Project work:**

To evaluate Students' skill-to prepare and then carry out the plan by planning and performing experiments; analyze& interpret data and produce results within a time frame is evaluated

**8. Summative assessment :**

Comprehensive evaluation of learning outcomes is carried out at the end of the academic year. The methods employed are the annual theory and practical University examination conducted at the end of the academic year covering the complete syllabus

**LEARNING OUTCOME FOR POSTGRADUATES**

**PROGRAM OUTCOME POSTGRADUATE**

**At the end of 3 years of training the candidate should be able to**

- Create not only a good oral health in the child but also a good citizen tomorrow.
- Instill a positive attitude and behavior in children.
- Understand the principles of prevention and prevention dentistry right from birth to adolescence Guide and counsel the parents in regards to various treatment modalities including different facets of preventive dentistry
- Prevent and intercept developing malocclusion.

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### SKILLS

- Obtain proper clinical history, methodological examination of the child patient, perform essential diagnostic procedures and interpret them and arrive at a reasonable diagnosis and treat appropriately.
- be competent to treat dental diseases which are occurring in child patient.
- Manage to repair and restore the lost *I* tooth structure to maintain harmony between both hard and soft tissues of the oral cavity.
- Manage the disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

### ATTITUDES


- Develop an attitude to adopt ethical principles in all aspects of Pedodontic practice.
- Professional honesty and integrity are to be fostered
- Treatment care is to be delivered irrespective of the social status, cast, creed, and religion of the patients.
- Willingness to share the knowledge and clinical experience with professional colleagues.
- Willingness to adopt, after a critical assessment, new methods and techniques of Pedodontics.
- Management developed from time to time, based on scientific research, which are in the best interest of the child patient.
- Respect child patient's rights and privileges, including child patient's right to information and right to seek a second opinion.
- Develop an attitude to seek opinion from allied medical and dental specialities, as and when required

### ASSESSMENT PROCESSES FOR POST GRADUATES:

**Attendance & Records/Log Books:** The candidate should be assessed based on regular attendance (Theory-75% & Practical/clinical-80%), clinical records books and scores obtained in the record.

**Journal club:** The journal club shall be held at least once a week. It is required that all PGs and staff associated will actively participate and enter relevant details in the logbook. A standard checklist to follow when assessing the presentation of journal clubs

**Case discussions:** Regular case discussions to be held with postgraduate students to evaluate their case based problem solving skills.

  
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**Clinical postings:** Each PG shall work in the department clinics on regular basis to gain adequate professional skills and competency in managing various cases of pertaining specialty.

**Teaching skills:** All PG's should be encouraged to engage either by lectures and case discussions in undergraduate teaching programmes. A model check list to be followed for assessment of the teaching

**Synopsis/Dissertation / Thesis:** The PG's should submit synopsis & prepare a dissertation based on the clinical or experimental work or any other research performed by them under the supervision of the guide.

**Short term studies:** The PG's are assessed for research skills through short term studies.

**Written and practical assessment exam:** Written and practical assessment exam should be conducted after completion of each academic year during post graduate curriculum at institutional level.

  
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