



# DR. G.D.POL FOUNDATION Y.M.T. DENTAL COLLEGE AND HOSPITAL

Institution Area, Sector- 4, Kharghar, Navi Mumbai - 410210

ENRICHING MINDS, EMPOWERING FUTURE

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## BDS PROGRAM OUTCOMES

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

### (A) KNOWLEDGE AND UNDERSTANDING

The undergraduate acquire the following during the period of training:

1. Adequate knowledge of the scientific foundation on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions; ability 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 in the state of health in so far as it affect dentistry.

### (B) SKILLS:

An undergraduate is being able to demonstrate the following skills necessary for practice of dentistry:

1. 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. Prevent and manage complications if encountered while carrying out various surgical and other procedures.

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3. Carry out certain investigative procedures and ability to interpret laboratory findings
4. Promote oral health and help prevent oral diseases where possible.
5. Control pain and anxiety among patients during dental treatment.

### (C) ATTITUDES:

An undergraduate develops the following attitudes during the training.

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

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## MDS PROGRAM OUTCOMES

The post-graduate training in various specialties is to train the graduate in Dental Surgery who will:

- I. Practice respective speciality efficiently and effectively, backed by scientific knowledge and skill;
- II. Exercise empathy and a caring attitude and maintain high ethical standards;
- III. Continue to evince keen interest in professional education in the speciality and allied specialties whether in teaching or practice;
- IV. Willing to share the knowledge and skills with any learner, junior or a colleague;
- V. To develop the faculty for critical analysis and evaluation of various concepts and views and to adopt the most rational approach.

The objective of the post-graduate program 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 specialty 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 post graduate course may be classified as under:-

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

### a) KNOWLEDGE:-

- i. Demonstrate understanding of basic sciences relevant to speciality;
- ii. Describe etiology, patho-physiology, principles of diagnosis and management of common problems within the speciality in adults and children;
- iii. Identify social, economic, environmental and emotional determinants in a given case and take them into account for planned treatment;
- iv. Recognize conditions that may be outside the area of speciality or competence and to refer them to the concerned specialist;
- v. update knowledge by self study and by attending courses, conferences and seminars pertaining to speciality;

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vi. Undertake audit, use information technology and carry out research in both basic and clinical with the aim of publishing the work at various scientific gathering.

## **(b) SKILLS:**

I. Take a proper clinical history, examine the patient, perform essential diagnostic and other relevant tests and interpret them to come to a reasonable diagnosis about the condition;

II. Acquire adequate skills and competence in performing various procedures as required in the speciality.

## **(c) HUMAN VALUES, ETHICAL PRACTICE AND COMMUNICATION ABILITIES.**

I. Adopt ethical principles in all aspects of practice;

II. Foster professional honesty and integrity;

III. Deliver patient care irrespective of social status, caste, creed, or religion of the patient;

IV. Develop communication skills, to explain various options available and obtain a true informed consent from the patient;

V. Provide leadership and get the best out of his team in congenial working atmosphere;

VI. Apply high moral and ethical standards while carrying out human or animal research.

VII. Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed;

VIII. Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

At the completion of the postgraduate training programme the graduates shall be competent in the following:

## **ORAL MEDICINE AND RADIOLOGY**

- Able to identify precancerous and cancerous lesions of the oral cavity and refer to concerned speciality for their management.
- Have an adequate knowledge about common laboratory investigations and interpretation of their results.
- Have adequate knowledge about medical complications that can arise treating systematically compromised patients and take prior precautions /consent from concerned medical specialist.

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- Have adequate knowledge about the radiation health hazards , radiation safety protection.
- Competent to take intraoral radiographs and interpret the radiographic findings.
- Gain adequate knowledge of extraoral radiographic procedures, TMJ radiographs and sialography.
- Be aware of the importance of intra and extra oral radiographs in forensic identification and age estimation.
- Become familiar with jurisprudence, ethics and understand the significance of records with respect to law.

## PAEDIATRIC AND 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 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.
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## ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

- 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 or guardian) about the necessity of the treatment.
- Plan and execute preventive orthodontics (space maintainers or space regainers)
- Plan and execute interceptive orthodontics (habit breaking appliances)
- Manage treatment of simple malocclusion such as anterior spacing using removable appliances.
- Handle delivery and activation of removable orthodontic appliances.

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## PERIODONTOLOGY

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

## PROSTHODONTICS AND CROWN AND BRIDGE

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

## CONSERVATIVE DENTISTRY AND ENDODONTICS

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

## ORAL AND 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 an oral implantology.

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- 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 procedure under LA like trans-alveolar extraction, frenectomy, dentoalveolar 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 patient management.

## **PUBLIC HEALTH DENTISTRY**

- Apply the principles of health promotion and disease prevention.
- Have knowledge of the organisation 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 sealing.
- Educate patients about the etiology and prevention of oral disease and encourage them to assure responsibility for their oral health.

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