

**8.1.2 The Institution Ensure Adequate Training for Students
In Pre-Clinical Skills**

List of Pre-Clinical Departments

- **Oral And Maxillofacial Pathology And Oral Microbiology**
- **Prosthodontics And Crown And Bridge**
- **Conservative Dentistry And Endodontics**
- **Oral And Maxillofacial Surgery**
- **Orthodontics And Dentofacial Orthopaedics**
- **Pedodontics And Preventive Dentistry**



PRIYADARSHINI
DENTAL COLLEGE AND HOSPITAL

(Approved by Dental Council of India, New Delhi & Affiliated to The Tamilnadu Dr. M.G.R Medical University, Chennai - 32.)

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY
No. 69, ANNA SALAI, GUINDY, CHENNAI – 600 032.

B.D.S.
DEGREE COURSES



SYLLABUS AND CURRICULUM

Signature

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3. DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

1. GOAL

To produce a dental graduate and clinician who is competent in examining, understanding and treating common oral disorders/diseases, alleviate pain, swelling, stomatodynia, stomatopyrosis, dysphagia and dysarthrosis using the best available evidence as per current knowledge and understanding of common oral diseases process; to employ reliable diagnostic modalities including but not limited to radiology, sialogram and to refer to a competent specialist in case of oral diseases with uncommon presentations, signs and symptoms.

2. OBJECTIVES

KNOWLEDGE AND UNDERSTANDING:

- To acquire an understanding of how cells, tissues, and organs develop and function in order to gain a clear perspective of these structures as a basis for understanding oral biology/ecology
- To develop a comprehension of the principles of embryogenesis and human development with emphasis on the face and structures of the oral cavity
- To understand, comprehend, describe, compare, and illustrate the histologic characteristics of oral tissues in health and diseased states
- To develop a professional vocabulary of terminology related to the head and neck, the oral complex, and the teeth so as to apply in clinical scenario
- To identify, locate, and relate the gross anatomical structures of the head and neck to include various teeth, the bones of the skull, musculature, major nerves, glands and the circulatory and lymphatic systems.
- To identify the histologic and anatomic features of the extra-oral and intraoral structures.
- To compare and contrast the human dentition in relationship to location, function, and morphology
- To identify, comprehend, describe the sequence and eruption patterns of primary and permanent teeth and their implications on future oral and overall health
- To understand the oral physiology, unique biochemical basis behind of oral musculature, glands and movements
- To be able to clinically apply and incorporate knowledge of tooth morphology, dental occlusion, head and neck anatomy, histology, and embryology into patient assessment, preventive management, treatment planning, and patient education in future

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SKILLS:

- Able to carve and reproduce the morphology of human permanent teeth in wax blocks
- Able to identify different oral hard tissues in clinical situations
- Able to differentiate normal from abnormal and diseased states
- Able to identify various types of human teeth based on their morphology
- Able to appreciate the influence of age, gender and race on oral and para-oral structures
- Able to locate the different areas/surfaces of the teeth
- Able to understand the implications of the disease process and ageing on normal oral structures
- Able to appreciate the eruption and shedding pattern of human teeth
- Able to appreciate and integrate the concept of occlusion, range of human jaw movements in preclinical and clinical situations
- Able to use effectively the terminologies and anatomical terms for clinical and patient communications

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7. PRE CLINICAL CONSERVATIVE DENTISTRY

1. GOAL

The IInd year BDS undergraduate students during the training in the preclinical conservative dentistry should acquire adequate knowledge, skills and attitude which are required for carrying out appropriate activities in dental practice which involves diagnosis treatment and prevention of disease of teeth. During the training program they should be able to identify and use instruments which are used in conservative dentistry and Endodontics. They should also be aware of various restorative procedures with emphasize on tooth conservation.

2. OBJECTIVES

The objectives are dealt under following headings

a. KNOWLEDGE AND UNDERSTANDING:

The student should acquire adequate knowledge during this period of training. Knowledge of the scientific foundation of conservative dentistry and understanding of various treatment procedures carried out in conservative dentistry with emphasize on biological principal to be followed during these treatment procedures and to acquire knowledge of various instruments and materials used in restorative procedures .They should also be aware of various manipulative techniques of restorative material.

b. SKILLS:

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1. Cavities:		
S no	Cavities	Preparation Restoration
	Class I	5 5
	Class I with extensions	2 2
<hr/>		
	Class II	
	DO conventional	10 10
	MO conventional	
	Conservative preparation in Upper molar	
<hr/>		
	Class II MOD	2 2
<hr/>		
	Class III and V	4 (glass ionomer)
	Class V	2 (amalgam)

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Finishing and polishing of above restorations

Inlay preparation:

Class II preparation

Wax pattern

Sprue attachment

Investment

Casting and finishing

Endodontics

Identification of basic endodontic instruments

Access cavity preparation in upper central incisors

Working length determination

Cleaning and shaping

Obturation of the root canal

Access seal

Demonstration:

Demonstration of class III, class V and incisal edge restoration on extracted teeth with composite resin

Finishing and polishing of the restorations

Identification and manipulation of cavity varnishes, bases like zinc phosphate, zinc poly carboxylate, zinc oxide eugenol cement

Manipulation of glass ionomer cement

Manipulation of amalgam

Identification and demonstration of placement of different types matrix retainers, matrices and looth seperators.

Demonstration of light cure composite and glass ionomer Restoration

Endodontics:

(a) Pulp capping direct indirect on extracted teeth

(b) Pulpotomy on extracted posterior teeth

(c) Root canal access cavity opening on upper Central Incisor (extracted teeth)

Demonstration of instrumentation and obturation of root canal

Prithvi

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8. PRE CLINICAL PROSTHODONTICS & CROWN & BRIDGE

1. GOAL

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 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.

2. OBJECTIVES

a. KNOWLEDGE

i) Adequate knowledge of the scientific foundations 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 deals.

ii) 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.

iii) 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.

iv) Adequate clinical experience required for the general dental practice.

v) Adequate knowledge of the constitution, biological functions 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. ATTITUDE

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

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Principals
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7. PRACTICAL EXERCISES

1. Preparation of special trays
2. Preparation of temporary and permanent denture bases
3. Preparation of occlusion rims
4. Orientation of occlusion rims on articulator
5. Arrangement of teeth
6. Processing of complete dentures

1. Arrangement of teeth - Must Know
2. Surveying of partially edentulous models and preparing modified master cast - Desirable to Know
3. Preparing of wax patterns spruing, casting and finishing (in batches of students not more than 8)
- Desirable to Know
4. Preparation of plaster models of various preparation of teeth to receive retainers for FPD
- Desirable to Know

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5. Prepare wax patterns for minimum of 3 unit FPD and investing, casting and porcelain facing (for Batch of 8 students) - Desirable to Know

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14. ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

1. GOAL

Practice respective speciality efficiently and effectively, backed by scientific knowledge and skill;

- exercise empathy and a caring attitude and maintain high ethical standards;
- continue to evince keen interest in professional education in the speciality and allied specialities whether in teaching or practice;
- willing to share the knowledge and skills with any learner, junior or a colleague;
- to develop the faculty for critical analysis and evaluation of various concepts and views and to adopt the most rational approach

2. OBJECTIVES

The objective of the Under 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 :

- Knowledge and Understanding
- Skills
- Attitude
- Knowledge about infections and cross infections in Dental Practice – HIV and Hepatitis control
- Computer Proficiency

a. KNOWLEDGE:

- (i) Demonstrate understanding of basic sciences relevant to speciality;
- (ii) Describe aetiology, pathophysiology, 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) Recognise conditions that may be outside the area of speciality or competence and to refer them to the concerned

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PRACTICAL EXERCISES REQUIRED TO BE PROFICIENT ABOUT :

- Basic wire bending exercise Gauge 22 or 0.7mm
- 1. Straightening of wire (4 Nos)
- 2. Bending of an equilateral triangle
- 3. Bending of a rectangle
- 4. Bending of a square
- 5. Bending of a circle
- 6. Bending of U.V.

Labial bows:

1. Short labial bow
2. Long labial bow

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3. Robert's retractor
4. Split labial bow
5. High labial bow with apron spring

CLASPS

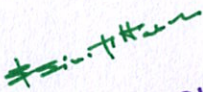
- Construction of clasps (Both sides upper / lower) Gauge 22 or 0.7mm
- $\frac{3}{4}$ clasp (C-Clasp)
- Full clasp (Jackson's Crib)
- Adam's clasp
- Triangular clasp

Construction of springs (on upper both sides) Gauge 24 or 0.5mm

- A) Finger spring
- B) Single cantilever spring
- C) Double cantilever spring (Z- spring)
 - Construction of canine retractors
- A. Buccal canine retractor
- B. Helical canine retractor
- C. U loop canine retractor
- D. Palatal canine retractor

Appliances:

- A. Upper hawley's appliance
- B. Upper hawley's appliance with anterior bite plane
- C. Upper hawley's appliance
- D. With tongue spikes
- E. Upper hawley's retainer appliance


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