

Subject Code: 1DS1010303	Subject Title: Conservative Dentistry and Endodontics
Pre-requisite Subject	- NONE -

OBJECTIVES

- A. Knowledge and understanding
B. Skills and Attitude

A) Knowledge and understanding:

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

- To diagnose and treat simple restorative work for teeth.
- To gain knowledge about esthetic restorative material and to translate the same to patients need.
- To gain the knowledge about endodontic treatment on the basis of scientific foundation.
- To carry out simple endodontic treatment.
- To carry out simple luxation of tooth and its treatment and to provide emergency endodontic treatment.

B) Skills

He should attain following skills necessary for practice of dentistry

- To use medium and high speed handpieces to carry out restorative work.
- Poses the skills to use and familiarize endodontic instrument and materials needed for carrying out simple endodontic treatment.
- To achieve the skills to translate patient esthetic needs along the function.

ATTITUDE:

- Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
- Willingness to participate in CDE programme to update the knowledge and professional skill from time to time.
- To help and participate in the implementation of the national oral health policy.
- He should be able to motivate the patient for proper dental treatment at the same time proper maintenance of oral hygiene should be emphasise which will help to maintain the restorative work and prevent future damage.

Aims:

To acquaint the students with various diseases, which may require surgical expertise and to train the students to analyse the history and be able to do a thorough physical examination of the patient.

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)						
Lecture	Tutorial	Practical	Credit	Theory(T)				Practical (P)		
				University Assessment	Continuous Assessment	Viva Voce	Total Marks	University Assessment	Continuous Assessment	Total Marks
1	--	11	--	--	--	--	--	--	--	--

Syllabus**THEORY**

1. Nomenclature of Dentition: Tooth numbering systems A.D.A. Zsigmondy Palmer and F.D.I. systems.
2. Principles of Cavity Preparation: Steps and nomenclature of cavity preparation classification of cavities, nomenclature of floors angles of cavities.
3. Dental Caries: Etiology, classification clinical features, morphological features, microscopic features, clinical diagnosis and sequel of dental caries.
4. Treatment Planning For Operative Dentistry: Detailed clinical examination, radiographic examination, tooth vitality tests, diagnosis and treatment planning, preparation of the case sheet.
5. Armamentarium for Cavity Preparation: General classification of operative instruments, Hand cutting instruments design formula and sharpening of instruments. Rotary cutting instruments dental bur, mechanism of cutting, evaluation of hand piece and speed current concepts of rotary cutting procedures. Sterilization and maintenance of instruments. Basic instrument tray set up.
6. Control of Operating Field: Light source sterilization field of operation control of moisture, rubber dam in detail, cotton rolls and anti sialogagues.
7. Amalgam Restoration: Indication contraindication, physical and mechanical properties, clinical behavior. Cavity preparation for Class I, II, V and III. Step wise procedure for cavity preparation and restoration. Failure of amalgam restoration.
8. Pulp Protection: Liners, varnishes and bases, Zinc phosphate, zinc polycarboxylate, zinc oxide eugenol and glass Ionomers cements.
9. Direct Filling Gold Restorations: Types of direct filling gold indications and limitations of cohesive gold. Annealing of gold foil cavity preparation and condensation of gold foils.
10. Preventive Measures in Restorative Practice:
Plaque Control, Pit and fissure sealants dietary measures restorative procedure and periodontal health. Contact and contour of teeth and restorations matrices tooth separation and wedges.
11. Management of Deep Carious Lesions Indirect and Direct Pulp Capping.
12. Non Carious Destruction's Tooth Structures Diagnosis and Clinical Management
13. Hyper Sensitive Dentine and Its Management.
14. Control of Pain during Operative Procedures.
15. Treatment Planning For Operative Dentistry Detailed Clinical Examination Radiographic Examination
16. Vitality Tests, Diagnosis and Treatment Planning and Preparation of Case Sheet.
17. Applied Dental Materials.
 1. Biological Considerations- Evaluation, clinical application and adverse effects of the following materials. Dental cements, Zinc oxide eugenol cements zinc phosphate cements, polycarboxylates glass Ionomers cements, silicate cement calcium hydroxides varnishes.
 2. Dental amalgam, technical considerations mercury toxicity mercury hygiene.
 3. Inlay casting waxes
18. Dental Pulp: Anatomy, physiology, histopathology and function
19. Endodontics: introduction definition scope and future of Endodontics
20. Clinical diagnostic methods
21. Emergency endodontic procedures
22. Pulpal diseases causes, types and treatment.

- 23. Periapical diseases: acute Periapical abscess, acute periodontal abscess phoenix abscess, chronic alveolar abscess granuloma cysts condensing osteitis, external resorption.
- 24. Vital pulp therapy: indirect and direct pulp capping pulpotomy different types and medicaments used.
- 25. Apexogenesis and apexification or problems of open apex.
- 26. Rationale of endodontic treatment case selection indication and contraindications for root canal treatments.

Minimum working hours-

Lectures – 30 hrs

Clinical hours- 70 hrs

Total - 100 hrs

Clinics Quota:

Total patients quota- 15 amalgam restorations, 5 GIC restorations

One project in each clinical posting

Post-end exam: amalgam restoration and theory viva