

Pre-clinical Conservative dentistry-1DS1010203

1. Identification and study of hand cutting instruments chisels, gingival margin trimmers, excavators and hatchet.
2. Identification and use of rotary cutting instruments in contra angle hand pieces burs (Micro motor)
3. Preparation class I and extended class I and class II and MOD's and class V amounting to 10 exercises in plaster models.
4. 10 exercises in mounted extracted teeth of following class I, 4 in number class I extended cavities 2, class II 4 in number and Class V 2 in number. Cavity preparation base application matrix and wedge placement restoration with amalgam.
5. Exercises on phantom head models which includes cavity preparation base and varnish application matrix and wedge placement followed by amalgam restoration.

Exercise	Number
Class I	5
Class I with extension	2
Class II 10	10
Class II Mods	2
Class V and III for glass ionomers	4

6. Polishing of above restorations.
7. Demonstration of Class III and Class V cavity preparation for composites on extracted tooth completing the restoration.
8. Polishing and finishing of the restoration of composites.
9. Identification and manipulation of varnish bases like Zinc Phosphate, Poly carboxylate, Glass Ionomers, Zinc Oxide, Eugenol cements.
10. Identification and manipulation of various matrices, tooth separators and materials like composites and modified glassIonomers cements.
11. Cast Restoration
 - Preparation of Class II inlay cavity
 - Fabrication of wax pattern
 - Sprue for inner attachment investing
 - Investing of wax pattern
 - Finishing and cementing of class II inlay in extracted tooth.
12. Endodontics
 - Identification of basic endodontic instruments
 - Coronal access cavity preparation on extracted. Upper central incisors
 - Determination of working length.
 - Biomechanical preparation of root canal space of central incisor

- Obturation of root canal spaces. Closure of access cavity

Lecture of conservative dentistry for second year

1. Nomenclature of Dentition:

Tooth numbering systems A.D.A. ZsigmondyPalmer and F.D.I. systems.

2. Principles Of Cavity Preparation :

Steps and nomenclature of cavity preparation classification of cavities, nomenclature of floors and angles of cavities.

3. Dental Caries :

Aetiology,classification clinical features, morphological features, microscopic features, clinical diagnosis and sequel of dental caries.

4. 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. sterilisation and maintenance of instruments. Basic instrument tray set up.

5. Control of Operating Field:

Light source sterilization field of operation control of moisture, rubber dam in detail,cotton rolls and anti sialogagues.

6. Amalgam Restorations.

Indication contraindication, physical and mechanical properties , clinical behaviour. Cavity preparation for Class I , II. V and III. Step wise procedure for cavity preparation and restoration. failure of amalgam restoration.

7. Pulp Protection :

Linings, varnishes and bases, Zinc phosphate, zinc polycarboxylate, zinc oxide eugenol and glass ionomer cements.

8. Anterior Restorations :

Selection of cases, selection of material, step wise procedures for using restorations,silicate (theory only) glass ionomers, composites, including sand wich restorations and bevels of the same with a note on status of the dentine bonding agents.

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. Management of Deep Carious Lesions; Indirect And Direct Pulp Capping.

11. 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 ionomer cements, silicate cement calcium hydroxides varnishes.
2. Dental amalgam, technical considerations mercury toxicity mercury hygiene.
3. Composite, Dentine bonding agents, chemical and light curing composites