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# REVISED SYLLABUS – OPERATIVE DENTISTRY

**Conservative Dentistry**

1. Examination
   Diagnosis and Treatment planning
2. Infection control
   As related to conservative dentistry and endodontics – Methods of sterilization of instruments, Equipments and materials.
3. Isolation of operating field
4. Control of pain during operative procedures
5. Instruments used in conservative Dentistry
   - Hand cutting instruments. Classifications, instrument formula, Description of hand cutting instruments.
   - Rotary cutting instruments: Dental burs, classification of speeds.
   - Advantages and disadvantages of low and high speed.
6. Matirces and retainers used in restorative dentistry
7. Separation of teeth
8. Management and gingival tissue during operative procedures
9. Contacts and contours
10. Various cavity designs for Amalgam restorations
    - Restoration, finishing and polishing
    - Pin retained Amalgam restorations
    - Bonded Amalgam restorations
    - Mercury Hygiene
11. Cast Gold restoration
    - Definitions of inlay and onlay
    - Indications and contra indications
    - Cavity designs for class II cat Gold inlay restorations wax patterns
    - Spruing, investing and casting
    - Seating, adjusting and polishing of the casting
    - Cementation, Burnishing
    - Casting defects, causes and prevention
12. Direct filling Gold indication, contra indication
    - Various cavity designs and preparation of cavities, types of

- Cohesive Gold
- Principles of manipulation
- Compaction techniques, finishing and polishing

**Endodontic Practice**

1. Definition – Aim and scope of Endodontics Rationale and principles of Endodontics
2. Anatomy of the pulp space (Internal Anatomy)
3. Clinical diagnosis methods
   Case history taking, clinical examination using various diagnostics tools
4. Case selection and treatment planning, Indications and contra indications
5. Armamentarium
   - Care and sterilization of instruments
   - Classifications & Standardization
   - Hand instruments – Engine driven instruments
   - Ultrasonic (Endodontics) sonic instruments
6. Diseases of pulp and periapical tissues and their management
7. Root resorption – Classification, etiology
8. Access opening and its principles
9. Preparation of root canal – cleaning, shaping & irrigation
10. Disinfections of root canal – Intra canal medicaments used in endodontics
11. Determination of working length/methods
12. Microbiology as related to endodontics
    - Microbial flora and infected pulp
    - Various culture tests – technique, culture media interpretation, antibiotic sensitivity
13. Root canal obturation
    - Obturation materials – classification & description
    - Composition and properties
    - Various techniques of root canal obturation including recent techniques
14. Endodontics & Periodontics interrelation – classification and management
15. Surgical Endodontics
    - Case selection – indication & contra indications
    - Incision and drainage trephination
    - Various flap designs for peri radicular Surgeries
    - Root end surgeries – Apicoectomy & curettage
    - Retrograde filling – root resection and Hemisection & Bicuspidation
    - Re implantation, Intentional reimplantation
    - Transplantation
    - Endodontic Endosseous Implants
16. Traumatic Teeth – Management only
17. Discoloration of teeth & management
18. Endodontic Emergencies and management
19. Post Endodontic Restoration
20. Miscellaneous – Xeroradiography, RVG & Laser in Endodontics. Use of Microscopes in Endodontics

13. Introduction properties
    - Indication of esthetic materials
    - Acid etching technique Enamel / dent in bonding system
    - Tooth preparation, Restorative techniques
    - Finishing and polishing procedures
    - Glass ionomer restorations
    - Clinical indications and contra indications
    - Tooth preparation and manipulation
    - Matrices, finishing and polishing procedures
    - Recent advances in Glass ionomer cements
14. Light cured composite inlay
15. Veneers
16. Hypersensitivity of teeth and management
17. Pulpal reaction/response to various materials and procedures
18. Diagnosis of dental caries and preventive restorative treatment
19. Non carious lesions
    - Attrition, Abrasion, Erosion
    - Management
20. Ceramic restorations
    - Ceramic inlays and Onlay
    - Clinical procedures for cerac – CAD/CAM
    - Inlay and Onlay
21. Miscellaneous
    - Laser
    - Air abrasion
    - Caries detector