

SYLLABUS / COURSE DETAILS FOR:

OPERATIVE DENTISTRY INCLUDING PAEDODONTICS:

Introduction:

It is the branch of dentistry concerned with the diagnosis, prevention, and treatment of diseases of the tooth structure including the repair or restoration of defective teeth. It also includes the care and treatment of children's teeth.

Course Description / Objectives	Suggested Lecture Hours
OPERATIVE DENTISTRY Introduction Diagnosis & Treatment Planning History taking and record keeping. Reasons for restoration of teeth. Clinical diagnosis and pathology of disease. Application of radiology in operative dentistry. Instruments and their usage. Operators environment and self-protection. Methods of sterilization. Occlusion Restoration Selection of Materials, techniques according to the size and type of the tooth loss Black's and Minimal Intervention principles of cavity preparation. Fissure sealants, PRR, tunnel preparation. Amalgam restorations Treatment of surface lesions Composite and glass ionomer-related restorations Complex restorations Indirect tooth colored restorations. Additional conservative aesthetic procedures Common complications/failures of restorative dentistry. Maintenance of restorations in long term Cavity Lining Linings bases and Temporary restorations Pulp capping Direct and indirect pulp capping Dental trauma Diagnosis & Restorative management Causes and management of tooth discoloration Cast Restoration Direct filling gold, cast metal restorations and porcelain restorations for single crown	45
ENDODONTICS Introduction and scope of endodontics	15

<p>Normal anatomy of dental pulp Pulpal reaction to caries, operative procedures and materials Diagnosis and differential diagnosis of pulp disorders. Assessment for endodontic therapy Role of radiography in endodontics Endodontic microbiology, prevention and infection control in dental clinics Pathobiology of primary apical periodontitis. Sterilization in endodontic Application of rubber dam. Endodontic instruments and standardization Management of pain and anxiety, local anaesthesia in endodontics Non- odontogenic tooth ache Endodontic emergency and management Pulp capping, apexification Selection of cases and treatment planning Rationale of endodontic treatment. Access opening and anatomy of root canals Anatomical variations in individual tooth negotiation and preparation of root canals. Shaping and irrigation of root canal system Endodontic cement sealers Obturation techniques Traumatic injuries and their management Non-vital bleaching of teeth Over denture preparation of root treated teeth Single visit endodontic. Management of broken instruments in root canal Perforations and their management Endo-perio lesions and their management Non- surgical re- treatment Surgical endodontics: apicectomy and root resection, retrograde fillings and materials used for root end fillings Re implantation and transplantation Endodontic implants and their significance. Root resorption : types and management. Methods of removal of old fillings and posts from the root canals Endodontic failure and re-treatment.</p>	
<p>SINGLE UNIT INDIRECT RESTORATIONS Indications and contra indications History taking and clinical examination Diagnostic casts and related procedures Diagnosis and treatment planning Principles of occlusion Periodontal considerations Mouth preparation Basic principles of preparation</p>	<p>15</p>

<p>Types of crowns, indications and contra indications, advantages and disadvantages Porcelain crowns-indications and contraindications, clinical assessment and steps of preparation Cast Metal crown-indications and contraindications, clinical assessment .and steps of preparation. Partial veneer crown preparation Tooth preparation for All ceramic restorations Interim single unit indirect restorations Post and core crowns. Impression and impression materials, impression techniques Laboratory technique for single unit indirect restorations Cementation and try-in Follow up and repair Endodontic considerations in crown and bridges</p>	
<p><u>PEDODONTICS (SYLLABUS / COURSE DETAILS)</u> Child management in dental practice Prevention of Dental Disease Prenatal Counseling Oral prophylaxis Fluoride administration Dietary management Diet counseling Home care The Acid etch Technique in caries prevention Pit & Fissure Sealants & Preventive resin restorations Radiology Problem of Pain & Sedation Periodontal disease in children Injury to the primary & permanent teeth Pulp therapy for the primary & young permanent teeth Apexification Apexogenesis Restorative dentistry for the primary dentition Anesthesia Oral habits</p>	<p>25</p>

Space maintenance in the primary dentition	
Treatment planning & interceptive orthodontics	
Rampant caries	
Space maintenance in the primary dentition	
Treatment planning & interceptive orthodontics	
Rampant caries	
Fluorides	
Treatment of handicapped children	

Synopsis of Course in Paedontics:

The theoretical learning and practical training in endodontics is to equip the student with knowledge, basic skills and caring attitude and communication skills with parents and child that are necessary for restoring the primary and mixed dentition and know when to refer a child for specialist advice and assistance in management. It also covers management of dental emergencies, appropriate diagnostic procedures in such circumstances, treatment planning with relation to dental care for the child.

BOOKS / TEACHING & LEARNING AIDS FOR OPERATIVE DENTISTRY / ENDODONTICS:

Sturdevant's Art and Science of Operative Dentistry: Theodore M. Roberson , Herald O. Heymann, Edward J. Swift. Mosby; (latest available edition)

Fundamentals of Operative dentistry; A contemporary approach. Summitt James B. , Robbins, William J. , Hilton, Thomas J. , Schwartz, Richard S. Quintessence publishing Co. (latest available edition)

T.R. Pitt Ford, FJ. Harty: Hartys endodontics in clinical practice. Wright Publishers (latest edition)

Inlays, crowns and bridges; a clinical handbook by Colin R. Cowell, Ivan Curzon, George F. Kantorowicz, David S. Shovelton, F. Ivor Whitehead. Edited by Kantorowicz, George (latest edition)

Reference Books:

Endodontics: Principles and practice by Torabinjad. Richard E Walton, Mahmoud Torabinjad. Saunders company Co. (latest edition)

Textbook of Operative Dentistry by Marzouk et al.

Fundamentals of fixed prosthodontics by Schillinberg HT, Jacobi R,Hobo S and Brackett S. ,Inc (latest edition)

BOOKS / TEACHING & LEARNING AIDS FOR PEDODONTICS:

Blinkhorn AS & Mackie IC Practical Treatment for the Paedodontic Patient Quintessence Publishing Co Inc

Curzon MEJ, Duggal MS, Fayle SA, Koch G, Robertson AJ & Toynba KJ Restorative Techniques in Paediatric Dentistry: An Illustrated Guide to the Restoration of Carious Primary Teeth Taylor & Francis.

Deery C, Hosey TM & Waterhouse P Paediatric Cariology Quintessence Publishing Co Inc

MacDonald RE, Avery DR & Dean JA (2004) Dentistry for the Child and Adolescent, 8th edition Mosby

Malamed SF (2004) Handbook of Local Anesthesia 5th edition Mosby.

Malamed SF (2004) Malamed's Local Anesthesia Administration DVD Mosby

Pinkham JR, Casarnassimo PS, Fields HW, McTigue DJ & Nowak A (2005) Pediatric Dentistry: Infancy Through Adolescence 4th edition Mosby.

Roberts G & Scheer B (2006) Oral and Dental Trauma in Children and Adolescents 2nd edition Oxford University Press

Scully C, Welbury R, Flaitz C & de Almeida OP Colour Atlas of Orofacial Health and disease in Children and Diagnosis and Management 2nd edition, Taylor & Francis, A Martin Dunitz Book.

Hosey MT & Chadwick BL. QuintEssentials 9—Child Taming: How to Manage Children in Dental Practice Quintessence Publishing Co Inc

Welbury RR, Duggal MS & Hosey MT (eds)(2005) Paediatric Dentistry 3rd edition Oxford University Press.

SYLLABUS / COURSE DETAILS FOR:

ORAL & MAXILLOFACIAL SURGERY:

Introduction:

The branch of dentistry that deals with the diagnosis and treatment of dental and oromaxillofacial injury, deformity, and disease by manual and instrumental means. A surgical operation or procedure, especially one involving the removal or replacement of a diseased tooth / teeth or orofacial tissue is involved.

Course Description / Objectives	Suggested Lecture Hours
Introduction to Oral Surgery Definition, Scope, Aims & Objectives of the	2