4B.4.2 SYLLABUS (Including Teaching Hours.)

MUST KNOW
1. Introduction to Pedodontics 01HR
2. Growth & Development:
   a. Prenatal & Postnatal Development arches of Cranium, face, jaws, teeth and supporting structures.
   b. Chronology of dental development and development of occlusion.
3. Child Psychology:
   a. Development & Classification of behavior, personality, intelligence in children, theories of child psychology management.
   b. Behavior Management: Non- Pharmacological.
   c. Child Abuse & Dental Neglect.
   d. Conscious sedation, Deep Sedation & General anesthesia in pediatric Dentistry (Including Other Drugs, Synergic & Antagonistic Actions Of Various Drugs Used In children)
4. Dental Caries 10HRS
   a. Historical background
   b. Definition, Aetiology & Pathogenesis.
   c. Caries pattern in primary, Young permanent and permanent teeth in children.
   d. Rampant caries, early childhood caries and extensive caries.
   e. Definition, aetiology, pathogenesis, Clinical features Complications Management.
5. Case History:
6. Pediatric Oral Medicine & clinical Pathology:
   a. Recognition & Management of development dental anomalies, teething disorders, stomatological conditions, mucosal lesions, viral infections etc.
7. Preventive Pedodontics:
   a. Concept, chair side preventive measures for dental diseases, high-risk caries including rampant & extensive caries: Recognition, Features & preventive Management, Pit Fissures Sealants, Oral Hygiene measures, correlation of brushing with dental caries and periodontal diseases.
8. Microbiology & Immunology as related to oral Diseases in Children: 02 HRS
   a. Basic concepts, Immune system in human body, Auto Immune diseases
9. Dental Material used in pediatric Dentistry. 05 HRS
   a. Pediatric Operative Dentistry.
10. Gingival & Periodontal diseases in children:
    b. Gingival & Periodontal diseases – Etiology. Pathogenesis & Management In Short
11. Pediatric Endodontics: 08 HRS
   Primary Dentition: Diagnosis of Pulpal diseases and their management – Pulp capping, pulpotomy, pulpectomy, (Materials & Methods), Controversies & recent concepts.
   Young Permanent teeth and permanent teeth, pulp capping, pulpotomy, Apexogenesis, Apexification, concepts, Techniques and materials used for different procedures.
   Prosthesis consideration in pediatric Dentistry. 02 HRS

12. Traumatic Injuries in Children: 09 HRS
   Classification & Importance
   Sequelae & reaction of teeth to trauma
   Management of trauma.
   Management of Traumatized teeth with latest concepts

14. Space Maintenance 07 HRS
   Oral Habits in Children:
   Definition, Etiology, Classification.
   Factors to be considered before giving a space maintainer.
   Different space maintainers according to clinical situations.
   Clinical features of digit sucking, tongue thrusting, mouth breathing & various other secondary habits.
   Management of oral habits in children.

15. Fluorides: 07 HRS
   Historical background.
   Systemic & topical fluorides.
   Mechanism of action.
   Toxicity & Management.
   Defluoridation techniques

16. Management of handicapped child and management of patients with systemic condition. 08 HRS
   Definition, Etiology & Classification, Behavioral, clinical features, & Management of Physically handicapping Conditions
   Mentally compromising Conditions

DESIRABLE TO KNOW

History of Pedodontics & Pedodontics treatment triangle 01 HR
Dimensional Changes in dental arches & Cephalometric evaluation of growth. 01 HR
Stage of Psychological child development, fear, anxiety, apprehension and Pharmacological Methods of management. 01 HR
Dietary Modifications & Diet Counseling 01 HR
Congenital Abnormalities in Children
Definition, Classification, Clinical Features & management
Dental Emergencies in children and their Management
Diet & Nutrition as related to dental caries & Diet Counseling
Histopathology, Pathogenesis, Immunology of dental caries, Periodontal diseases, Tumors, Oral Mucosal Lesions etc. 01HR
Nanotechnology & Recent advances in dental materials. 01 HR
Genetics related to gingival & periodontal diseases. 01 HR
Recent Advances in Paediatric Endodontics 01 HR
Management of Jaw fracture in children 01 HR
Space Analysis & Cephalometrics. 01 HR
Genetic disorders 01 HR

4B.4.3EXAMINATION PATTERN

<table>
<thead>
<tr>
<th>Name of Exercise</th>
<th>Time Allotted</th>
<th>Marks</th>
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<tbody>
<tr>
<td>Case history taking and radiograph</td>
<td>1 hour</td>
<td>90 marks</td>
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