- 1) Title of the course FELLOWSHIP COURSE IN PEDIATRIC & PREVENTIVE DENTISTRY
- 2) **Duration of the course-** 1 year or as per University rules and regulations
- 3) Course contents/ syllabus -
 - 1. Child psychology: development & classification of behaviour, personality, intelligence in children, theories of child psychology, stages of psychological child development, fear anxiety, apprehension & its management
 - 2. Behaviour management: non pharmacological & pharmacological methods.
 - 3. Conscious sedation, deep sedation & general anaesthesia in pediatric dentistry: (including other drugs, synergic & antagonistic actions of various drugs used in children
 - 4. Preventive Pedodontics: concepts, 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 & periodontal diseases. Diet & nutrition as related to dental caries. Diet counselling
 - 5. Pediatric operative dentistry
 - Principle of operative dentistry along with modifications of material/ past, current & latest including tooth colored materials.
 - Modifications required for cavity preparation in primary and young permanent teeth.
 - Various isolation techniques
 - Restorations of decayed primary, young permanent & permanent teeth in children using various restorative material like glass ionomer, composites, silver, amalgam & latest material
 - Stainless steel, polycarbonate & resin crowns / veneers & fibre post systems.

6. Pediatric endodontics:

• Primary dentition:- diagnosis of pulpal diseases & their management – pulp capping, Pulpotomy, Pulpectomy, controversies & recent

concepts.

- Young permanent teeth & permanent teeth, pulp capping, Pulpotomy, Apexogenesis, Apexification, concepts, techniques & materials used for different procedures.
- Recent advances in pediatric diagnosis & endodontics.
- 7. Prosthetic considerations in paediatric dentistry.
- 8. Traumatic injuries in children:
 - Classification & importance.
 - Sequelae & reaction of teeth to trauma.
 - Management of traumatized teeth with latest concepts.
 - Management of jaw fracture in children.
- 9. Interceptive orthodontics:
 - Concepts of occlusion and aesthetics: structure & function of all anatomic components of occlusion, mechanics of articulations, recording of masticatory function, diagnosis of occlusal dysfunction, relationship of TMJ anatomy & pathology and related neuromuscular physiology.
 - A comprehensive review of the local & systemic factors in the causation of malocclusion.
 - Recognition & management of normal & abnormal developmental occlusions in primary, mixed & permanent dentitions in children.
 - Biology of tooth movement: a comprehensive review of the principles of teeth movement. Review of contemporary literature.
 Histopathology of bone & periodontal ligament, molecular and ultra cellular consideration in tooth movement.
 - Myofunctional appliance: basis principles, contemporary appliances: design & fabrication
 - Removable appliances: basis principles, contemporary appliances: design & fabrication
 - Case selection & diagnosis in interceptive orthodontics
 - Space management: etiology, diagnosis of space problems, analysis,

biomechanics, planned extraction in interception orthodontics.

10. Oral habits in children:

- Definition, etiology, & classification
- Clinical features of digit sucking, tongue thrusting, mouth breathing & various other secondary habits.
- Management of oral habits in children

11.Dental care of children with special needs:

- Definition etiology, classification, behavioural, clinical features & management of children with:
- Physically handicapping conditions
- Mentally compromising conditions
- Medically compromising conditions
- Genetic disorders
- 12. oral manifestations of systemic conditions in Childrens & their management
- 13. Dental radiology as related to pediatric dentistry

14. Cariology

- Historical background
- Definition, aetiology & pathogenesis
- Caries pattern in primary, young permanent & permanent teeth in children.
- Rampant caries, early childhood caries & extensive caries. Definition, aetiology & pathogenesis, clinical features, complications & management.
- Role of diet & nutrition in dental caries
- Dietary modifications & diet counselling.
- Subjective & objective methods of caries detection with emphasis on caries activity tests, caries prediction, caries susceptibility & their

clinical applications

- 15. Congenital abnormalities in children: definition, classification, clinical features & management.
- 16. Dental emergencies in children & their management
- 17.Dental materials used in pediatric dentistry.

18. Fluorides:

- Historical background
- Systemic & topical fluorides
- Mechanism of action
- Toxicity & management
- Defluoridation techniques
- 19. Case history recording, outline of principles of examination, diagnosis, & treatment planning.
- 20. Comprehensive infant oral health care.
- 21. Comprehensive cleft care management with emphasis on counselling, feeding, Nasoalveolar bone remodelling, speech rehabilitation.