

Paediatric and Preventive Dentistry

Sl. No	Course outcomes	Domain K/S/A/C	Level K/KH/ SH/P	Must know/ Nice to know/ Desirable to know	Teaching- Learning Methods	Assessment Methods	Vertical Integration	Horizontal Integration
Pediatric dentistry								
Topic 1: Introduction to pediatric dentistry						No of Competencies: 4		
1.	Define Pediatric dentistry	K	K	MK	Large group	Written exam Viva voce	-	-
2.	Discuss scope of pediatric dentistry	K	K	MK	Large group	Written exam Viva voce	-	With other dental and medical specialties.
3.	List objectives of pediatric dentistry	K	K	MK	Large group	Written exam Viva voce	-	-
4.	Describe the importance of pediatric dentistry	K	K	MK	Large group	Written exam Viva voce	-	-
Topic 2: Growth and development						No of Competencies: 4		
1.	Discuss importance of study of growth and development in Pedodontics.	K	K	MK	Large group	Written exam Viva voce	-	-
2.	List Prenatal and Postnatal factors in growth & development.	K	K	MK	Large group	Written exam Viva voce	-	-


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3.	Discuss theories of growth & development.	K	K/KH	MK	Large group	Written exam Viva voce	-	With dept. of Orthodontics
4.	Document Development of maxilla and mandible and related age changes.	K	K/KH/S	MK	Large group	Written exam Viva voce	Cephalometric analysis, growth assessment	With dept. of Orthodontics
Topic 3: Development Of Occlusion From Birth Through Adolescence.								
No of Competencies: 1								
1.	Discuss variations and abnormalities.	K	K/KH	MK	Large group	Written exam Viva voce	-	With dept. of Oral pathology
Topic 4: Dental Anatomy and Histology								
No of Competencies: 7								
1.	Describe development of teeth and associated structures.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
2.	Discuss Eruption and shedding of teeth.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
3.	Describe Teething disorders and their management.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
4.	Describe Chronology of eruption of teeth.	K	K	MK	Large group	Written exam Viva voce	-	-
5.	Identify Differences between deciduous and permanent teeth.	K	K/KH/S	MK	Large group	Written exam Viva voce	-	-
6.	Present development of dentition from birth to adolescence.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
7.	Discuss Importance of first permanent molar.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
Topic 5: Dental Radiology Related to Pedodontics.								
No of Competencies: 1								
5.1	Discuss dental radiology related to	K	K	NK	Large group	Written exam	Use of digital	With dept. of

	pedodontics					Viva voce	radiography	oral med. & Radiology
Topic 6: Oral Surgical Procedures in Children.						No of Competencies: 3		
1.	List Indications and contraindications of extractions of primary and permanent teeth in children.	K	K/KH/S H/P	MK	Large group DOAP	Written exam Skill assessment Viva voce	-	-
2.	Knowledge of Local and General Anesthesia.	K	K/KH	MK	Large group	Written exam Viva voce Local anis. –Skill assessment	Painless LA delivery Conscious sedation	With dept. of oral surgery
3.	Describe Minor surgical procedures in children.	K	K/KH	NK	Large group	Written exam Viva voce	Hospital pediatric dentistry	With dept. of oral surgery
Topic 7: Dental Caries:						No of Competencies: 7		
1.	Describe Historical background	K	K	MK	Large group	Written exam Viva voce	-	-
2.	Definition, a etiology & pathogenesis	K	K	MK	Large group	Written exam Viva voce	-	-
3.	Discuss Caries pattern in primary, young permanent and permanent teeth in children	K	K/KH	MK	Large group	Written exam Viva voce	-	-
4.	Clinical features, Complications & Management of Rampant caries, early childhood caries and extensive caries	K	K/KH/S/ SH	MK	Large group small group discussion	Written exam Viva voce	Oral microbiology	With dept. of Microbiology
5.	Discuss Role of diet and nutrition in Dental Caries	K	K	MK	Large group	Written exam Viva voce	-	-
6.	Describe Dietary modifications &	K/C	K/KH/	MK	Large group	Written exam Viva voce	-	-

	pedodontics					Viva voce	radiography	oral med. & Radiology
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2.	Knowledge of Local and General Anesthesia.	K	K/KH	MK	Large group	Written exam Viva voce Local anis. –Skill assessment	Painless LA delivery Conscious sedation	With dept. of oral surgery
3.	Describe Minor surgical procedures in children.	K	K/KH	NK	Large group	Written exam Viva voce	Hospital pediatric dentistry	With dept. of oral surgery
Topic 7: Dental Caries:						No of Competencies: 7		
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2.	Definition, a etiology & pathogenesis	K	K	MK	Large group	Written exam Viva voce	-	-
3.	Discuss Caries pattern in primary, young permanent and permanent teeth in children	K	K/KH	MK	Large group	Written exam Viva voce	-	-
4.	Clinical features, Complications & Management of Rampant caries, early childhood caries and extensive caries	K	K/KH/S/ SH	MK	Large group small group discussion	Written exam Viva voce	Oral microbiology	With dept. of Microbiology
5.	Discuss Role of diet and nutrition in Dental Caries	K	K	MK	Large group	Written exam Viva voce	-	-
6.	Describe Dietary modifications &	K/C	K/KH/	MK	Large group	Written exam Viva voce	-	-

	to dental treatment					Viva voce		
Topic 10: Behavior Management:								
						No of Competencies: 3		
1.	Define behavior management	K	K	MK	Large group	Written exam Viva voce	-	-
2.	Discuss Types of behavior encountered in the dental clinic.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
3.	Describe Non-pharmacological & pharmacological methods of Behavior Management.	K/S/A/C	K/KH/SH/P	MK	Large group	Written exam Viva voce DOPS/DOAP	Conscious sedation	-
Topic 11: Pediatric Operative Dentistry:								
						No of Competencies: 4		
1.	Describe Principles of Pediatric Operative Dentistry	K/S	K/KH/SH	MK	Large group	DOPS Skill assessment	Pre-clinical	-
2.	Discuss Modifications required for cavity preparation in primary and young permanent teeth.	K/S	K/KH/SH	MK	Large group	Written exam Viva voce	Minimal intervention	-
3.	Describe Various Isolation Techniques.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
4.	Demonstrate Restorations of decayed primary, young permanent and permanent teeth in children using various restorative materials like Glass Ionomer, Composites & Silver Amalgam. Stainless steel, Polycarbonate & Resin Crowns.	K/S	K/KH/SH	MK	Large group	DOPS Skill assessment	Use of newer materials	-
Topic 12: Pediatric Endodontics								
						No of Competencies: 3		
	Discuss Principles & Diagnosis	K	K/KH	MK	Large group	Written exam	-	-

	Classification of Pulpal Pathology in primary, young permanent & permanent teeth.	K	K/KH	MK	Large group	Viva voce Written exam Viva voce	-	-
	Describe Management of Pulp ally involved primary, young permanent & permanent teeth. <ul style="list-style-type: none"> • Pulp capping – direct & indirect. • Pulpotomy • Pulpectomy • Aerogenesis • Apexification • Obturation Techniques & material used for primary, young permanent & Permanent teeth in children. 	K/S	K/KH/SH	MK	Large group	Written exam Viva voce	Use of digital radiography, apex locators magnifying loupes	With dept. of Conservative & Endodontics

Topic 13: Traumatic Injuries in Children.


						No of Competencies: 3		
1.	Classifications & Importance.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
2.	Discuss Sequelae & reaction of teeth to trauma.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
3.	Describe Management of Traumatized teeth.	K/S/A/C	K/KH	MK	Large group	Written exam Viva voce	Newer storage media	With dept. of Oral surgery

Topic 14: Preventive & Interceptive Orthodontics:

						No of Competencies: 4		
1.	Define preventive & interceptive orthodontics	K	K	MK	Large group	Written exam Viva voce	-	-
2.	Describe Problems encountered during primary and mixed dentition phases & their management.	K	K/KH	MK	Large group	Written exam Viva voce	-	-
3.	Discuss Serial extractions.	K	K/KH	MK	Large group	Written exam	-	With dept. of

Topic 21: Dental Health Education & School Dental Health Programmes						No of Competencies: 1		
1.	Counselling for Dental health education & school dental health programmes	K/S/A/C	K/KH/P	DK	Small group discussion	Written exam Viva voce	-	-
Topic 22: Fluorides:						No of Competencies: 5		
1.	Discuss Historical background.	K	K	MK	Large group	Written exam Viva voce	-	-
2.	Demonstrate use of Systemic & Topical fluorides.	K/S	K/KH/P	MK	Small group discussion Skill assessment	Written exam OSCE Viva voce	-	-
3.	Discuss Mechanism of action.	K	K	MK	Large group	Written exam Viva voce	-	-
4.	Describe Toxicity & Management.	K	K	MK	Large group	Written exam Viva voce	-	-
5.	Describe Defluorination techniques.	K	K	MK	Large group	Written exam Viva voce	-	-
Topic 23: Case History Recording:						No of Competencies: 3		
1.	Perform examination of child in dental operatory	K/S/A/C	K/KH/P	MK	Large group Small group DOAP Skill assessment	OSCE Viva voce	-	-
2.	Interpret diagnosis	K/S/A/C	K/KH/P	MK	Small group discussion Skill assessment	OSCE Viva voce	Newer technology	With dept. of Oral Medicine & dept. of Oral Pathology
3.	Inform treatment planning	K/S/A/C	K/KH/P	MK	Small group discussion Skill assessment PBL	OSCE Viva voce	-	-

Topic 24: Setting Up of Pedodontics Clinic.						No of Competencies: 1		
1.	Discuss Setting up of pedodontics clinic with respect to play area, zones, sterilization, machinery, and consultation area	K/A/C	K	DK	Large group	Written exam Viva voce	Dental practice in pandemic	-
Topic 25: Ethics.						No of Competencies: 1		
2.	Discuss ethical aspects in pediatric dentistry	K	K	MK	Large group	Written exam	-	-



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