

## **Programme Structure**

## School of Dental Sciences MDS (Pediatric and Preventive Dentistry)

Programme Code: SDS0107 Batch :2023-2026



## Programme Structure School of Dental Sciences Master of Dental Surgery (MDS) Batch: 2023-2026

S.	Paper ID	Subject	Subjects	]	Teaching Load				
No.		Code		L	T	P	Type of Course <sup>1</sup> : 1. CC 2. AECC 3. SEC 4. DSE		
THEO	RY SUBJEC	CTS							
1.	MDS307	MDS307	Pediatric & Preventive Dentistry	0	3	45	CC		
Practio	cal/Viva-Voc	e/Jury							
2.	MDS307	MDS307	Pediatric & Preventive Dentistry	0	3	45	CC		

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21	Module	Syllahus	for	Theory	Subjects
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2.1 Module: Syllabus for Theory Subjects         School:       SCHOOL OF DENTAL SCIENCES         Batch: 2023-2026								
	ogramme:	MASTER OF DENTAL SURGERY- PEDIATRIC &						
	0	PREVENTIVE DENTISTRY						
1	Course	MDS307						
	Code							
2	Credits	NA 0.2.42						
3	Contact	0-3-45						
	Hours (L-T-P)							
4	(L-I-F) Course	Compulsory (Core)						
4	Туре	compulsory (Core)						
5	Course							
5	Objective	1. Be able to provide both primary and comprehensive, preventive, and therapeutic oral health care including interceptive orthodontics for infants, children and adolescent.						
		2 Be able to instill a positive attitude and behaviour in children towards oral health and be able to guide and counsel the parents/guardian in regard to various treatment modalities including different facets of preventive dentistry.						
		<ul> <li>3 Be able to manage and treat the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.</li> <li>4 Maintain high standard of professional ethics and conduct and apply these in all aspects of professional life.</li> </ul>						
6	Course Outcomes	<ul> <li>CO1- Student should be able to understand applied Anatomy, genetics, Applied Physiology, Applied Pathology, Nutrition, Dietics, Growth &amp; Development, Cariology and Fluoride.</li> <li>CO2-Student will be get acquainted with Dental health concepts, effects of civilization and environment, Dental Health delivery system, Public Health measures related to children along with principles of Pediatric Preventive Dentistry and to develop an attitude of counselling in Pediatric Dentistry</li> <li>CO1-Student should be competent to treat dental diseases which are occurring in child patient and should be able to manage to repair and restore the lost/ tooth structure to maintain harmony between both hard and soft tissues of the oral cavity.</li> <li>CO2-Student should be able to manage the disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.</li> <li>CO3-Student should be able to acquire skills in managing efficiency life threatening condition with emphasis on basic life support measure.</li> <li>CO1-Student should be able to understand the principles of prevention and preventive dentistry right from birth to adolescence</li> </ul>						



7	Course Description	CO2-Student should be able to guide and counseregards to various treatment modalities includes facets of preventive dentistry CO1-For a given case, the student after a critical able to adopt new methods and techniques of H is developed time to time, based on scientific in the best interest of the child and patient. CO2-Student should able to respect child patier privileges, including child patient's right to inference a second opinion. Paediatric and Preventive Dentistry deals with prof oral and dental ailments that may occur during objective of the post-graduate training is to train higher competence in both general and special at prepare him or her for a career in teaching, reseat practice.		
8	Outline syllab	bus		CO Mapping
	UNIT 1	Applied basic sciences		
	А	Topic 1	Applied anatomy and genetics	CO1
	В	Topic 2	Applied physiology, pathology, microbiology, nutrition and dietics	CO1
	С	Topic 3	Dental plaque	CO2
	UNIT 2	Growth and development, child psychology and behaviour management, child abuse and neglect.		
	A	Topic 1	Growth and development of prenatal and postnatal development of craniofacial structures.	CO1
	В	Topic 2	Development and classification of behaviour, personality, intelligence in children, theories of child psychology, stages of psychological child development	CO2
	С	Topic 3	Behavioral management- pharmacological and	CO3



		non- pharmacological	
		method, child abuse	
		and neglect.	
UNIT 3			
	Clinical pedodontics		
А	Topic 1	Case history	CO1
		recording, setting up	
		of pedodontic and	
		preventive dentistry	
		clinic dental radiology	
		related to paediatric	
		dentistry.	
В	Topic 2	Paediatric operative	CO1
		dentistry and	
		endodontics, dental	
		materials, interceptive	
		orthodontics, oral	
		habits, traumatic	
		injuries in children.	
С	1	Deep sedation and	CO1, CO2,
	Topic 3	general anaesthesia in	
	Topic 5	pediatric dentistry,	CO3
		oral manifestation of	
		systemic condition in	
		children and their	
		management,	
		management of minor	
		oral surgical	
		procedures in children,	
		pediatric medicine and	
		clinical pathology,	
		congenital	
		abnormalities in	
		children, dental	
		emergencies in	
		children and their	
		management, gingival	
		and periodontal	
		diseases in children	
		and their management.	
UNIT 4		Ţ	
	Preventive Pedodontics		
А	Topic 1	Preventive and	CO2
		community dentistry	
		as applied to paediatric	
		dentistry, preventive	
		pedodontics, fluorides,	
		comprehensive infant	
		oral health	
		care/comprehensive	
		cleft care, cariology.	
В	Tonia 2	Dental health	CO2, CO1
Б	Topic 2		02,001
		education and school	



				dental health programmes,				
				epidem				
-	С				les of biostatics	CO1		
	C	Topic 3		and rese	COI			
		Tople 5	ology and					
					anding of			
				comput				
				photogr				
	UNIT 5	Medically compromised child, prosthetic		photogi	apiry.			
	UNIT 5	consideration in paediatric dentistry,						
		emerging concepts in pediatric dentistry.						
-	A		_	Medica	11	CO3		
	А	Topic 1				005		
-	В	Taria 2		Prosthe	mised child.	CO1		
	Б	Topic 2			eration in	COI		
_	C				ric dentistry	<u>CO1</u>		
	C	Torris 2			ng concepts in	CO1		
$\vdash$		Topic 3			c dentistry.			
				inimu				
				75%				
	Course evaluation							
				eded				
		Attendance		both				
				eory				
			and					
				clinical				
				actical				
				Taken in every				
		Quizzes						
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		Any Other		earning				
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			stu	idies,				



			Discussi ons,Assi gnments			
		End Term examination	700 Marks	Theory Practical	1 <sup>st</sup> year – 100 marks	3 <sup>rd</sup> year - 300 marks 3 <sup>rd</sup> year - 300 marks
2	Text book/s*					

SR.	Author	
1	Pinkham,JR	Pediatric Dentistry infancy through adolescence
2	Mc Donald,RE	Dentistry for the child and adolescent
3	Ghai,OP	Ghai essential paediatrics
4	Goran Koch	Pedodontics Clinical Approach
5	Welbury	Pediatric Dentistry
6	Cameron, Angus	Handbook of pediatric dentistry
7	Stephen Wei	Pediatric Dentistry Total Patient Care
8	Curzon,MEJ	Kennedy's Pediatric Operative Dentistry
9	Stewart	Pediatric Dentistry
10	Mathewson,RJ	Fundamentals of pediatric dentistry
11	Pinkham,JR	Pediatric Dentistry
12	Nikiforuk	Understanding Dental Caries Vol 1
13	Scully, Crispian	A colour atlas of orofacial health: Diseases in
		children and adolescents
14	Welburg,Richards	Paediatric dentistry
15	Nikiforuk	Understanding Dental Caries Vol 2
16	JJ.Murray& Rug- Gunn	Fluorides in Caries Prevention
17	Fejerskov& Burt	Fluorides in Dentistry
18	Fejerskov&Thylstrup	Text book of Clinical Cariology
19	Mathewson	Fundamentals of Pediatric Dentistry
20	NewBurn	Cariology
21	Marwah,Nikhil	Comprehensive Pediatric Dentistry
22	Tandon,Shobha	Textbook of pedodontics
23	Chadwick,BL	Child Taming: How to manage children in



		dental practice
24	Ripa	Management of Dental Behaviour in children
25	Shearer	Treatment planning in primary dental care
26	Gutmann,James I	Problem solving in endodontics
27	Kaban,Leonard B	Pediatric oral and maxillofacial surgery
28	Kennedy's & Curzon	Pediatric operative dentistry
29	Koch,Goran	Pediatric dentistry : A clinical approach
30	Walker,W.allan	Nutrition in pediatrics
31	Casamassimo,Paul S	Pediatric dentistry infancy through adolescence
32	Sanger,Roger G	Clinical management of child abuse and neglect
33	Wright,Gerald Z	Behaviour management in dentistry for children
34	Finn	Clinical pedodontics
35	Muthu,MS	Pediatric dentistry: Principles and practices
36	Cameron, Angus C	Handbook of pediatric dentistry
37	Dean.Jeffery A	Mc Donald and Avery's dentistry for the child
		and adolescent
38	Joseph Sim	Minor tooth movement in children

3	Other References	TED learning
		EBSCOHOST
		Various scientific articles from various sources



## **Mapping**

Course	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO 307.1.1	MDS 307	3	2	2		2	2	3	2	1	1	1
CO 307.1.2	MDS 307	2	2	1	3			2	3	2	1	1
CO 307.2.1	MDS 307	3		3		1		2	1	3	3	
CO 307.2.2	MDS 307	2	2		3			1	2			3
CO 307.2.3	MDS 307	1	2	1		2	1	3	2	1	1	1
CO 307.3.1	MDS 307	3	2	2		1	2	3	2	1	1	1
CO 307.3.2	MDS 307	2	1	1	1	1	2	3	2	2	1	
CO 307.4.1	MDS 307	3	2	2		2	1	3	2	1	1	1
CO 307.4.2	MDS 307	2	1	3	1	3	1	2	1		1	2

1-Slight (Low) 2-Moderate (Medium)

3-Substantial (High)