

Program Structure Template

School of Dental Sciences MDS (Pediatric and Preventive Dentistry)

SDS0107 2020-2023

SU/SDS/MDS- Pediatric and Preventive Dentistry

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1.1 Vision, Mission and Core Values of the University

Vision of the University

To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.

Mission of the University

- 1. Transformative educational experience
- 2. Enrichment by educational initiatives that encourage global outlook
- 3. Develop research, support disruptive innovations and accelerate entrepreneurship
- 4. Seeking beyond boundaries

- 1. Integrity
- 2. Leadership
- 3. Diversity
- 4. Community

Core Values



1.2 Vision, Mission and Core Values of the School

Vision of the School

To serve the society by being a global center in pursuit of academic and professional excellence in the field of dentistry.

Mission of the School

- 1. Creating a stimulating and flexible learning environment amongst the faculty and students
- 2. Strongly promoting research, innovation, clinical excellence
- 3. Promote and inculcate ethical values and continued betterment in the dental profession and in all facets of life.

Core Values

- 1. Integrity
- 2. Leadership
- 3. Diversity
- 4. Community

SU/SDS/MDS- Pediatric and Preventive Dentistry



1.3 Program Educational Objectives (PEO)

Program educational objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

PEO1: Be able to provide both primary and comprehensive, preventive and therapeutic oral health care including interceptive orthodontics for infants, children and adolescent.

PEO2: Be able to instill a positive attitude and behaviour in children towards oral health.

PEO3: Be able to guide and counsel the parents/guardian in regards to various

treatment modalities including different facets of preventive dentistry.

PEO4: 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.

PEO5: Maintain high standard of professional ethics and conduct and apply these in all aspects of professional life.



1.3.3 Program Outcomes (PO's)

PO1: Demonstrate an in- depth art and science of pediatric dentistry.

PO2: Provide preventive and therapeutic oral health care for infants and children through adolescence including those with special health care needs

PO3: Employ pediatric dental procedures and behavioral management techniques in Ambulatory and hospital settings.

PO4: Work collaboratively with clinicians, parents and other medical specialties advocating for the health of the child patient.

PO5: Execute a research project based on a thorough knowledge of literature, data collection and analysis.

PO6: Maintain high standard of professional ethics and conduct and apply these in all aspects of professional life.

PSO1: Adequate knowledge of scientific foundations on which pediatric dentistry is based which includes growth and development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease.

PSO2: To prepare a student who is proficient in providing preventive and therapeutic oral health care for infants and children through adolescence including those with special health care needs in instituition, private or public health settings.

PSO3: Be able to instill a positive attitude and behaviour in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence.

PSO4: Be able to guide and counsel the parents in regards to various treatment modalities.**PSO5:** Acquire skill to prevent and manage complication if encountered and to carry out required investigative procedures and ability to interpret laboratory findings.



Program Structure Template School of Dental Sciences Master of Dental Surgery (MDS) Batch: 2020-2023

S. No.	Paper ID	Subject Code	Subjects		Teaching T	Load P	Type of Course ¹ : 1. CC	
							2. AECC 3. SEC 4. DSE	
THEO	RY SUBJEC	CTS						
1.	MDS307	MDS307	Pediatric & Preventive Dentistry	134	-	-	CC	
Practic	cal/Viva-Voc	e/Jury						
2.	MDS307	MDS307	Pediatric & Preventive Dentistry	-	-	4187	CC	
	TOTAL CREDITS							



2.1 Template A1: Syllabus for Theory Subjects						
CO Program:		SCHOOL OF DENTAL SCIENCES Batch: 2020-2023				
		MASTER OF DENTAL SURGERY- PEDIATRIC &				
	-	PREVENTIVE DENTISTRY				
1	Course	MDS307				
	Code					
2	Credits	NA				
3	Contact	134-0-4187				
	Hours					
	(L-T-P)					
4	Course	Compulsory (Core)				
	Туре					
5	Course 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 regards to various treatment modalities including different facets of preventive dentistry.				
		 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. 4 Maintain high standard of professional ethics and conduct and apply these in all aspects of professional life. 				
6	Course Outcomes	 CO307.1.1- Student should be able to understand applied Anatomy, genetics, Applied Physiology, Applied Pathology, Nutrition, Dietics, Growth & Development, Cariology and Fluoride. CO307.1.2-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 Paediatric Dentistry CO307.2.1-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. CO307.2.2-Student should be able to manage the disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions. CO307.2.3-Student should be able to acquire skills in managing efficiency life threatening condition with emphasis on basic life support measure. CO307.3.1-Student should able to understand the principles of 				

2.1 Template A1: Syllabus for Theory Subjects



		prevention and preventive dentistry right from b. CO307.3.2-Student should able to guide and couregards to various treatment modalities inc facets of preventive dentistry CO307.4.1-For a given case, the student after should able to adopt new methods and technique dentistry that is developed time to time, base researches, which are in the best interest of the c CO307.4.2-Student should able to respect ch privileges, including child patient's right to inf seek a second opinion.	unsel the parents in luding different r a critical assessment es of Paediatric d on scientific hild and patient. ild patient's rights and
7	Course Descriptio n	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 ar prepare him or her for a career in teaching, resear practice.	g childhood. The a student so as to ensure rea of interest and
8	Outline sylla	ibus	
	MDS-	Unit A	
	307.A	Applied basic sciences	
	MDS-	Unit A	Applied anatomy and
	307.A1	Topic 1	genetics
	MDS-	Unit A	Applied
	307.A2	Topic 2	physiology,pathology, microbiology,nutrition and diatics
	MDS-	Unit A	Dental plaque
	307.A3	Topic 3	
	MDS- 307.B	Unit B Growth and development, child psychology and behaviour management, child abuse and neglect.	
	MDS- 307.B1	Unit B Topic 1	Growth and development of
			prenatal and postnatal development of craniofacial structures.
1	MDS-	Unit B	Development and
	307.B2	Topic 2	classification of behaviour ,personality, intelligence in children, theories of child psychology, stages of psychological child development

			SHARDA UNIVERSITY
MDS- 307.B3	Unit B Topic 3	Behavioral management- pharmacological and non pharmacological method, child abuse and neglect.	
MDS- 307.C	Unit C Clinical pedodontics		
MDS- 307.C1	Unit C Topic 1	Case history recording, setting up of pedodontic and preventive dentistry clinic dental radiology related to paediatric dentistry.	
MDS- 307.C2	Unit C Topic 2	Paediatric operative dentistry and endodontics, dental materials, interceptive orthodontics, oral habits, traumatic injuries in children.	
MDS- 307.C3	Unit C Topic 3	Deep sedation and general anaesthesia in pediatric dentistry, 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.	
MDS- 307.D	Unit D Preventive Pedodontics		
MDS- 307.D1	Unit D Topic 1	Preventive and community dentistry as applied to paediatric dentistry, preventive pedodontics, fluorides, comprehensive infant oral health care/comprehensive	



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					cleft ca	are, cariology.]	
	MDS-	Unit D)		Dental health education and school			
	307.D2	Topic	2					
						dental health		
					program			
ļ						niology.	_	
	MDS-	Unit D				oles of biostatics		
	307.D3	Topic	3		and res			
						dology and		
						tanding of		
						ters and		
					photog	raphy.		
	MDS-		cally compromised					
	307.E	consid	leration in paediati	ric dentistry,				
		emerg	ging concepts in peo	liatric dentistry.				
	MDS-	Medic	ally compromised c	hild.	Medica	ally		
	307.E1				compre	omised child.		
							J	
	MDS-	Prosth	etic consideration ir	paediatric dentistry	Prosthe	etic		
	307.E2				consid	eration in		
					paedia	tric dentistry		
	MDS-	Emerg	ging concepts in ped	iatric dentistry.		ing concepts in		
	307.E3				pediatr	ric dentistry.		
					1	2		
	C			Minimum 75% is N	Veeded			
	Course evaluatio	Attend	dance	for both theory and	l			
1				clinical practical				
Ì	n	Quizz	es	A	Taken in every 2 months		Ī	
		Presentations		Seminars, Journal			1	
				Case Presentations				
				and Library Disser				
				Presentation	uution			
				Project based learn	ning		-	
		Any C)thar	short studies,	ing,			
		Any C	Julei	,	monto			
				Discussions, Assign	ments	Theory	1 st	3 rd year -
						Theory	year –	300 marks
		End T	erm examination				100 year –	500 marks
				700 Marks			marks	
				-		Practical	marks	3 rd year -
						Tactical		300 marks
2	Text	SR.	Author	Title			1	
-		GIC.	110101	11110				
	book/s*	1	Pinkham,JR	Pediatric Dentistr	w infano	v through adalas	cence	
		1	1 IIIKIIAIII,JK		y mane	y unough adoles		
		2	Mc Donald,RE	Dentistry for the	ohild on	dadagaant		
		2	Nic Dollalu, KE	Denusuy for the	ciniu and	audiescent		
		3	Ghai,OP	Ghai essential pa	adiatrias			
		5	Ollai,OP	Unai essential pa	culatrics			
	4 Goran Kash Dadadartias Clin		linical Approach					
		4 Goran Koch Pedodontics			Clinical Approach			
				1				



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&Thylst rup	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



				Beyond Boundaries
		25	Shearer	Treatment planning in primary dental care
	26		Gutmann,James I	Problem solving in endodontics
	27 Ka		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,Pau 1 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	Hand book 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 Referenc es	TED learning EBSCOHOST Various scientific articles from various sources		