

Program Structure Template

School of Dental Sciences MDS (Pediatric and Preventive Dentistry)

SDS0107 2019-2022



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

Core Values

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



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



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: 2019-2022

S.	Paper ID	Subject	Subjects		Teaching !	Load	
No.		Code		L	T	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	Practical/Viva-Voce/Jury						
2.	MDS307	MDS307	Pediatric & Preventive Dentistry	-	-	4187	CC
TOTAL CREDITS							NA



2.1 Template A1: Syllabus for Theory Subjects

CC		SCHOOL OF DENTAL SCIENCES Batch: 2019-2022			
	ogram:	MASTER OF DENTAL SURGERY- PEDIATRIC & PREVENTIVE DENTISTRY			
	T				
1	Course Code	MDS307			
2	Credits	NA			
3	Contact Hours (L-T-P)	134-0-4187			
4	Course Type	Compulsory (Core)			
5	Course Objective	Be able to provide both primary and comprehensive, preventive and therapeutic oral health care including interceptive orthodontics for infants, children and adolescent. 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			
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			



		prevention and preventive dentistry right from be	irth to adolescence		
		CO307.3.2-Student should able to guide and cou			
		regards to various treatment modalities including different			
		facets of preventive dentistry			
		CO307.4.1-For a given case, the student after a critical assessment			
		should able to adopt new methods and techniques of Paediatric			
		dentistry that is developed time to time, based on scientific			
		researches, which are in the best interest of the child and patient.			
		CO307.4.2-Student should able to respect child patient's rights a privileges, including child patient's right to information and right to			
		seek a second opinion.			
7	Course	Paediatric and Preventive Dentistry deals with pr	revention and treatment		
	Descriptio	of oral and dental ailments that may occur during			
	n	objective of the post-graduate training is to train			
		higher competence in both general and special and			
		prepare him or her for a career in teaching, resea	rch and speciality		
		practice.			
8	Outline sylla				
	MDS-	Unit A			
ļ	307.A	Applied basic sciences			
	MDS-	Unit A	Applied anatomy and		
	307.A1	Topic 1	genetics		
ļ					
	MDS-	Unit A	Applied		
	307.A2	Topic 2	physiology, pathology,		
			microbiology,nutrition		
ļ	1000		and diatics		
	MDS-	Unit A	Dental plaque		
	307.A3	Topic 3			
	MDS-	Unit B			
	307.B	Growth and development, child psychology			
		and behaviour management, child abuse			
ļ	MDG	and neglect.	C 1 1		
	MDS-	Unit B	Growth and		
	307.B1	Topic 1	development of		
			prenatal and postnatal		
			development of craniofacial structures.		
	MDC	Linit D			
	MDS-	Unit B	Development and classification of		
	307.B2	Topic 2			
			behaviour ,personality, intelligence in		
1			children, theories of		
			child psychology, stages of		
			psychological child		
			development		
1			uc ve iopinent		



			<u> </u>
	MDS-	Unit B	Behavioral
	307.B3	Topic 3	management-
		Tr	pharmacological and
			non pharmacological
			method, child abuse
			*
	7.55.0	77.1.6	and neglect.
	MDS-	Unit C	
	307. C	Clinical pedodontics	
	MDS-	Unit C	Case history
	307.C1	Topic 1	recording, setting up
			of pedodontic and
			preventive dentistry
			clinic dental radiology
			related to paediatric
			dentistry.
}	MDS-	Unit C	Paediatric operative
	307.C2		-
	307.C2	Topic 2	dentistry and
			endodontics, dental
			materials, interceptive
			orthodontics, oral
			habits, traumatic
			injuries in children.
	MDS-	Unit C	Deep sedation and
	307.C3	Topic 3	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-	Unit D	Ĭ
	307.D	Preventive Pedodontics	
	MDS-	Unit D	Preventive and
	307.D1	Topic 1	community dentistry
	20,.221		as applied to paediatric
			dentistry, preventive
			pedodontics, fluorides,
			comprehensive infant
			oral health
			care/comprehensive



Ī					cleft ca	re, cariology.		oundaries
	MDS-	Unit I)		Dental health		j	
	307.D2	Topic 2		educati	ion and school			
		dental health						
					programmes,			
ļ						niology.	_	
	MDS-	Unit I			Principles of biostatics			
	307.D3	Topic	3		and res			
		methodology and						
						tanding of		
					photog	ters and		
	MDS-	Modi	cally compromised	abild prosthatia	photog	тарпу.	-	
	307.E		deration in paediat					
	307.E		ging concepts in pe					
İ	MDS-		cally compromised c		Medica	ally	1	
	307.E1	Ivicuit	carry compromised c	iiiiq.		omised child.		
	307.121				Compre	omised emid.		
İ	MDS-	Prosth	netic consideration in	n paediatric dentistry	Prosthe	etic	1	
	307.E2			I	conside	consideration in		
					paediat	tric dentistry		
	MDS-	Emerg	ging concepts in ped	iatric dentistry.	Emerg	ing concepts in	1	
	307.E3				pediatr	ic dentistry.		
	Course	luatio		Minimum 75% is N				
1	evaluatio			for both theory and	l			
•	n			clinical practical				
	••			Taken in every 2 m			_	
				Seminars, Journal				
		Presentations		Case Presentations				
				and Library Disser	tation			
				Presentation				
				Project based learn	ing,			
		Any (Other	short studies,				
				Discussions, Assign	ments			
						Theory	1 st	3 rd year -
		End T	Term examination				year –	300 marks
				700 Marks			100 marks	
		<u> </u>		4		Practical	IIIaiks	3 rd year -
		1				Tactical		300 marks
								Joo marks
2	Text	SR	Author	Title				
2	Text	SR.	Author	Title			1	
2	Text book/s*				v infanc	y through adole	scence	
2		SR.	Author Pinkham,JR	Title Pediatric Dentistr	ry infanc	y through adole:	scence	
2		1	Pinkham,JR	Pediatric Dentistr			scence	
2							scence	
2		1 2	Pinkham,JR Mc Donald,RE	Pediatric Dentistr Dentistry for the	child and	d adolescent	scence	
2		1	Pinkham,JR	Pediatric Dentistr	child and	d adolescent	scence	
2		1 2	Pinkham,JR Mc Donald,RE	Pediatric Dentistr Dentistry for the	child and	l adolescent	scence	



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



		2.5	G1	Beyond Boundaries		
		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,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	TED learning				
	Referenc		OHOST	from various sources		
	es	Various scientific articles from various sources				
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