

Programme Structure

School of Dental Sciences MDS (Master of Dental Surgery) Periodontology

Programme code : SDS0105 Batch : 2023-2026



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

S.	Paper	Subject	Subjects	Tea	ching L	oad	
No.	ID	Code		L	Т	Р	Type of
							Course:
							1. CC
							2. AECC
							3. SEC
							4. DSE
Theo	ory Subject	ts					
	MDS302	MDS302	Periodontology	0	3	45	CC
1.							
Practical/Viva-Voce/Jury							
2.	MDS302	MDS302	Periodontology	0	3	45	CC



Module: Syllabus

Sch	ool:	School of Dental Sciences				
Pro	gramme:	Master of Dental surgery (Periodontology)				
Bat	ch:	2023-2026				
1	Course Code	MDS302				
2	Credits	NA				
3	Contact Hours	0-3-45				
	(L-T-P)					
4	Course Type	Compulsory (CORE)				
5	Course Objective	 Knowledge of aetiology, pathophysiology, diagnosis and management of periodontal and peri-implant diseases. Knowledge of interrelationship between periodontal diseases and systemic conditions Recognize conditions that may be the outside the area of Periodontology and Oral Implantology and refer them to the concerned specialist. Motivate and educate the community regarding periodontal diseases, its prevention and consequences if not treated. Update knowledge and enhance skills by attending courses, conferences, seminars and workshops pertaining to Periodontology and Oral Implantology Carry out research in both basic and clinical aspects of Periodontology and Oral Implantology with the aim of publishing or presenting the work at various scientific gatherings. 				
6	Course Outcomes					
	302.1	 CO1 Should have an understanding on the structural anatomy and biology of the periodontium and be familiar with the biochemical, microbiologic and immunologic genetic aspects of periodontal pathology CO2 Should understand the clinical and biological factors to be considered in the appropriate use of antimicrobial drugs and be aware of the contemporary principles and practices of laboratory diagnostic techniques and interpretation of laboratory reports. CO3 Should have a basic knowledge on research methodology, biostatistics and be able to apply it in various research projects as well as dissertations. 				

		A+ P	SHARDA UNIVERSITY Beyond Boundarie
	302.2	• CO2 Should have a sound knowledge of the normal stru	cture of the
		periodontium and etiopathogenesis of periodontal diseas	ses and be
		able to apply it in diagnosing and deciding treatment of	various
		periodontal diseases	
		• CO2 Should be able to record indices and plan out epide	emiological
		survey to assess the prevalence and incidence of various	s oingival and
		periodontal diseases in the Indian Population	, Singi var and
		periodonal discuses in the matan ropulation	
	302.3	• CO3 Should be able torecord proper clinical history, pe	erform
		thoroughintra-oral and extra-oral examination, advisees	ssential
		diagnostic procedures and interpret them to come to a r	easonable
		diagnosis	
		• CO2 Should develop knowledge and skill of various not	n-surgicaland
		surgical periodontal therapies available for treatment of	periodontal
		diseases including an updated knowledge on the recent a	advancements
		and be able to effectively educate and motivate the patient	nt regarding
		periodontal maintenance after treatment	
		• CO3 Should develop knowledge and skill in the science	and practice
		of oral implantology including Implant Maintenance and	d diagnosis
		and treatment of peri-implant complications	C
	302.4	• CO4 Should adopt ethical principles in all aspects of tre	atment
		modalities and scientific research, adopt continuous lear	rning by
		attending conferences and workshops, demonstrate eval	uative and
		judgment skills in patient referral and be able to handle	medical
		emergencies arising in periodontal practise including pre-	oviding Basic
		Life Support	
7	Course	Periodontology is the science dealing with the health and d	isease of the
,	Description	investing and supporting structures of the teeth and oral mi	ICOUS
	Description	membrane. The objective of the post-graduate training is to	o train a
		student so as to ensure higher competence in both general a	and
		specialized areas, and prepare him or her for a career in tea	ching,
		research and speciality practice with a high degree of clinic	cal
		proficiency in the field of Periodontology and Oral Implan	tology.
8	Outline syllabus		CO
	Unit 1	Applied Basic Sciences	wapping
	A	Applied Anatomy including Normal Periodontal	CO1
	4.1	structure. Physiology and Biochemistry	
	В	Applied Pathology and Microbiology and Pharmacology	CO2
	С	Applied Research Methodology and Biostatistics	CO3
			CO1



	Unit 2	Etiopath						
	А	Etiology	Etiology, Epidemiology and Risk Factors of Periodontal			CO1,CO2		
		Diseases						
	В	Patholog	Pathology, Microbiology and Immunology of Periodontal					
		Diseases						
	С	Relationship of Periodontal Diseases with systemic				CO2, CO3		
		diseases						
	Unit 3	Clinical	and Therapeutic P	eriodontolog	gy and Oral			
		Implant	ology					
	A	Gingival	and Periodontal Dis	seases, Histor	у,	CO2, CO3		
		Examina	tion, Diagnosis, Pro	gnosis and T	reatment			
		Planning	5					
	В	Non-Sur	gical and Surgical P	eriodontal Th	erapy including	CO2, CO3		
		Recent a	dvances in surgical	Techniques a	ndSupportive			
	~	Periodor	tal Therapy					
	С	Biologic	al, Clinical and Surg	gical aspects of	of Dental	CO3, CO4		
		Implants	including Diagnosi	s and Treatmo	ent of peri-			
		implant of	complication sand In	mplant Mainte	enance,			
		Manager	Management of Medical Emergencies in Periodontal					
	TT 1 / 4	Practice	Practice including Basic Life Support					
	Unit 4	Long Es	say			001		
	A	Applied	Basic Sciences	(1 D'		COI		
	B	Etiopath	CO2					
	C	Clinical and Therapeutic Periodontology and Oral				CO3,CO4		
		Implanto						
0	A 1	emergen	cies	1				
9	Attendance	/5% The	eory and Practical ea	ich				
10	Presentation	Seminar	s, Journal Clubs, Cli	inical Case Pr	esentations,			
11	A 0.1	Dissertat						
11	Any Other	Short Stu	ch, Discussions					
10	M 1 C	and Dem						
12	Mode of	I neory//						
	examination							
	weigniage Distribution	/UU Mortra	Theory	1 ^o rear	3 ⁻ I ear			
	Distribution	WIATKS	Drastical	100 Marks	200 Marks			
				-	200 Marks			
			v iva voce &	-	100 Marks			
			redagogy					



13	Text book/s*	 Carranza's Clinical Periodontology - Newman, Takei Klokkevold, Carranza Clinical Periodontology and Implant Dentistry – Lang, Lindhe Contemporary Implant Dentistry – Misch Periodontal Medicine - Rose, Mealey, Genco Textbook of Preventive and Social Medicine – Park Atlas of cosmetic and Reconstructive Periodontal surgery - Cohen
14	Other References	 Journal of Clinical Periodontology Journal of Periodontal Research Periodontology 2000 Journal of Periodontology International Journal of Periodontics and Restorative Dentistry Journal of Oral Implantology EBSCO Host

<u>Mapping</u>

COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	1	1	1	1	1	-	-	1	-
CO302.1.2	1	3	1	1	1	1	2	1	1	1	2
CO302.1.3	-	-	3	3	1	3	-	-	-	-	-
CO2	3	3	2	1	1	1	3	2	2	2	-
CO302.2.2	-	-	3	2	1	3	-	-	-	-	-
CO3	2	3	2	-	1	1	3	1	1	1	1
CO302.3.2	1	3	3	1	1	2	2	3	3	3	-
CO302.3.3	1	3	1	1	1	1	1	2	3	3	-
CO4	-	1	1	2	3	3	3	-	-	-	3

1-Slight (Low)

2-Moderate (Medium)3-Substantial (High)

TEACHING / LEARNING ACTIVITIES:



The post graduate is expected to complete the following at the end of :

S.No.	Year Wise	ACTIVITIES WORKS TO BE DONE		
1.	Module 1	Orientation to the PG programme		
	(First Year)	Pre-clinical work (4 months)		
		a. Dental		
		1. Practice of incisions and suturing techniques on the typodont		
		models.		
		2. Fabrication of bite guards and splints.		
		3. Occlusal adjustment on the casts mounted on the articulator		
		4. X-ray techniques and interpretation.		
		5. Local anaesthetic techniques.		
		6. Identification of Common Periodontal Instruments.		
		7. To learn science of Periodontal Instruments maintance		
		(Sharpening , Sterlization and Storate)		
		8. Concept of Biological width		
		a. Typhodont Exercise		
		(i) Class II Filling with Band and Wedge Application		
		(ii) Crown cuttings		
		b. Medical		
		1. Basic diagnostic microbiology and immunology, collection		
		and handling of sample and culture techniques.		
		2. Introduction to genetics, bioinformatics.		
		3. Basic understanding of cell biology and immunological		
		diseases.		
		Clinical work		
		1. Applied periodontal indices 10 cases		
		2. Scaling and root planning:- with Proper written history		
		a. Manual 20 Cases		



		b. Ultrasonic 20	Cases			
		3. Observation / assessment of all periodo	ntal procedures			
		including implants.				
2.	Module 2	1. Interpretation of various bio-chemical i	1. Interpretation of various bio-chemical investigations.			
	(First Year)	2. Practical training and handling medical	emergencies and			
		basic life support devices.				
		3. Basic biostatistics – Surveying and data analysis.				
		Clinical				
		1. Case history and treatment planning	10 cases			
		2. Root planning	50 cases			
		3. Observation / assessment of all periodo	ntal procedures			
		including implant.				
		4. Selection of topic for Library dissertation	on and submission of			
		Dissertation Synopsis.				
3.	Module 3	Minor surgical cases	20 cases			
	(First Year)	(i) Gingival Depigmentation	3 Cases			
		(ii) Gingival Curettage	no limits			
		(iii) ENAP	1 Case			
		(iv) Gingivectomy/ Gingivoplasty	5 cases			
		(v) Operculectomy	3 cases			
		Poster Presentation at the Speciality confer	rence			
4.	Module 4	Clinical work				
	(Second Year)	1. Case history and treatment planning	10 cases			
		2. Occlusal adjustments	10 cases			
		3. Perio splints	10 cases			
		4. Local drug delivery techniques	5 cases			
		5. Screening cases for dissertation				
5.	Module 5	1. Periodontal surgical procedures.				
	(Second Year)	a. Basic flap procedures	20 cases			
		2. Periodontal plastic and esthetic	10 cases			
		a. Increasing width of attached gingival	5 cases			

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		b. Root coverage procedures / Papilla Prese	rvation and
		Reconstruction	5 cases
		c. Crown lengthening procedures	5 cases
		d. Frenectomy	5 cases
		e. Vestibuloplasty	5 cases
		3. Furcation treatment (Hemisection, Rootse	ection, Tunelling)
			5 cases
		4. Surgical closure of diastema.	2 cases
6.	Module 6	1. Ridge augmentation procedures	5 cases
	(Third Year)	2. Implants Placements and monitoring	5 cases
		3. Sinus lift procedures	2 cases
		4. Case selection, preparation and investigation	tion of implants.
		5. Interdisciplinary Periodontics	2 each
		(i) Ortho – Perio	
		(ii) Endo – Perio	
		(iii) Restorative Perio	
		(iv) Preprosthetic	
		(v) Crown Prep	
		6. Osseous Surgery	2 each
		(i) Resective	
		(ii) Regenerative	
		7. Scientific paper/ poster presentation at th	e conference.
7.	Module 7	Clinical work	
	(Third Year)	1. Flap surgeries & regenerative techniques	25 cases
		(using various grafts & barrier membranes)	
		2. Assistance / observation of advanced surg	gical procedure
			5 each
		3. Microsurgery	5 each
		4. Record maintenance & follow-up of all the	reated cases
		including implants.	
		5. Submission of dissertation – 6 months be	efore completion of



		III year.		
		6. Scientific paper presentation at conferences.		
8.	Module 8	1. Refining of surgical skills.		
	(Third Year)	2. Publication of an article in a scientific journal.		
		3. Preparation for final exams.		
9.	Module 9	1. Preparation for final exams.		
	(Third Year)	2. University exam		

ASSESSMENT EXAMINATION:

In addition to regular evaluation, logbook etc., Assessment examination should be conducted after every 3 modules & progress of the student monitored.

MONITORING LEARNING PROGRESS:

It is essential to monitor the learning progress of each candidate through continuous appraisal and regular assessment. It not only helps teachers to evaluate students, but also students to evaluate themselves. The monitoring is to be done by the staff of the department based on participation of students in various teaching / learning activities. It may be structured and assessment be done using checklists that assess various aspects.