

Programme Structure

School of Dental Sciences

MDS

(Master of Dental Surgery) Conservative Dentistry & Endodontics

Programme Code: SDS0103

Batch: 2023-2026



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

				Te	aching 1	Load	Type of Course-				
S.No.	.No.Paper IDSubject CodeSubjects						Т	Р	1. CC 2. AECC 3. SEC 4. DSE		
			Theory Subjects								
1.	MDS304	MDS304	Conservative Dentistry And End	0	3	45	СС				
	Practical/Viva-Voce/Jury										
2.	MDS304	MDS304 MDS304 Conservative Dentistry And End		0	3	45	СС				



Course

2.1 Module: Syllabus

School:	School of Dental Sciences						
Programme:	Master of Dental Surgery - Conservative Dentistry and Endodontics2023-2026						
Batch:							
Course Code	MDS304						
Credits	NA						
Contact Hours	0-3-45						
(L-T-P)							
1. Course Type	Compulsory (CORE)						
2. Course Objective	 1.1 To make the student understand the intricacies and relevance of basic sciences as applicable to conservative / restorative dentistry and Endodontics 1.2. To make the student aware of infection control measures in the dental clinical environment and laboratories 1.3. To imbibe in students the ethical principles in all aspects of restorative and contemporary Endodontics including non-surgical and surgical Endodontics 1.4. To help the students develop communication skills, in particular to explain various options available management and to obtain a true informed consent from the patient 2.1 To make the student sound in describing etiology, pathophysiology, diagnosis and management of common restorative situations, that will include contemporary management of dental caries, non-carious lesions and hypersensitivity. 2.2 To train the student to take proper chair side history, examine the patient and perform medical and dental diagnostic procedures; as well as perform relevant tests and interpret them to come to a reasonable diagnosis about the dental condition 2.3 To train the student to perform all levels of restorative work including Aesthetic procedures and treatment of complicated restorative procedures 3. to make the student to describe aeitology, pathophysiology, periapical diagnosis and management of common restorative structive work including 						

	 contemporary management of trauma and pulpal pathoses including endormer arise periodontal pathoses 4. To make the student sound in diagnosing, planning and executioning challenging clinical cases requiring comprehensive management strategies using contemporary materials and techniques in the specialty of conservative dentistry and endodontics
3 Course Outcomes	 The student will be able to: CO1: To make the student understand the intricacies and relevance of basic sciences as applicable to conservative / restorative dentistry and Endodontics CO2 To make the student aware of infection control measures in the dental clinical environment and laboratories CO1: To make the student sound in describing aeitology, pathophysiology, diagnosis and management of common restorative situations, that will include contemporary management of dental caries, non-carious lesions and hypersensitivity. CO2To train the student to take proper chair side history, examine the patient and perform medical and dental diagnostic procedures; as well as perform relevant tests and interpret them to come to a reasonable diagnosis about the dental condition CO3 To train the student to perform all levels of restorative procedures CO1: To make the student to describe aeitology, pathophysiology, periapical diagnosis and management of common endodontic situations that will include contemporary management of trauma and pulpal pathoses including endoperiodontal pathoses CO2: To inbibe in students the ethical principles in all aspects of restorative and contemporary Endodontics including non-surgical and surgical Endodontics CO1: To make the student sound in diagnosing, planning and executioning challenging clinical cases requiring comprehensive management strategies using contemporary materials and techniques in the specialty of conservative dentistry and endodontics

		explain various options available management and to obtain a true informed arise consent from the patient
4	Course Description	The M. D. S. in Conservative Dentistry & Endodontics is three-year Postgraduate program. It is the branch of dentistry which deals with the treatment of caries, deformed, stained, nonesthetic, or broken teeth and endodontics deals with treatment of pulpal and periapical diseases and dental pain management. The curriculum provides training in the prevention and treatment of the disease and injuries of the hard tissues and the pulp of the tooth and associated periodical lesions. The purpose of the course is to provide advanced education in the subject to highly qualified graduate dentists who are interested in a career of specialized practice, teaching and research.

Outline syllabus		A+ NAAC Beyond Boundaries	CO Mapping
Unit 1	APPLIE	D BASIC SCIENCES	
A	Topic 1	Applied Anatomy of Head and Neck, Development of Teeth, Applied Physiology	CO1,CO2
B	Topic 2	Pathology, Pharmacology, Biostatistics	C01,C02
C	Topic 3	Research Methodology, Applied Dental Materials	CO1, CO2
UNIT 2	CONSEI	RVATIVE DENTISTRY	
Α	Topic 1	Examination, diagnosis and treatment plan, Occlusion, Dental caries, Hand and rotary cutting instruments, Infection control, Direct concepts in tooth preparation for amalgam, composite, GIC and restorative techniques, failures and management, Hand and rotary cutting instruments	CO1, CO2
В	Topic 2	Infection control, Direct concepts in tooth preparation for amalgam, composite, GIC and restorative techniques, failures and management, Indirect tooth-colored restorations- ceramic, inlays and onlays, veneers, crowns, recent advances in fabrication and materials, Impression procedures used for direct restorations, Cast metal restorations, Direct gold restorations, Recent advances in restorative materials and procedures.	CO1, CO2

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		NAAC UNIVERSITY Beyond Boundaries								
С	Topic 3	Management of non-carious lesion restorative materials and procedures, Advance knowledge of minimal intervention dentistry Hypersensitivity, theories, causes and management, Lasers in Conservative Dentistry, CAD- CAM & CAD-CIM in restorative dentistry, Dental imaging and its applications in restorative dentistry, Principles of esthetics	CO1, CO2, CO3							
UNIT 1	ENDOD	ONTICS								
A	Topic 1	Rationale of Endodontics, Knowledge of internal anatomy, Dentin and pulp complex, Pulp and periapical pathology, Pathobiology of periapex	CO1, CO2							
В	Topic 2	Diagnostic procedure, Case selection and treatment planning, Infection control procedures. Access cavity preparation, Endodontic instruments and instrumentation, Working length determination / cleaning and shaping of root canal system, Root canal irrigants and intra canal medicaments	CO1							
С	Topic 3	Endodontic microbiology ,Obturating materials, various obturation techniques and recent advances, Traumatic injuries and management, Endodontic surgeries, recent developments, Endoperio interrelationship, Endo emergencies and management, Geriatric endodontics Lasers in endodontics, Endodontic radiology, Procedural errors in endodontics	CO1							
UNIT 4	LONG ESSAY									
A	Topic 1	Basic Sciences, Applied Sciences, Biostatistics	CO304.1.1, CO 304.1.2							
В	Topic 2	Conservative Dentistry, recent advances and application	CO304.2.1, CO304.2.2, CO 304.2.3 CO 304.4.1 CO 304.4.2							
С	Topic 3	Endodontics, recent advances and application, Recent advances, Tissue Engineering	CO 304.3.1, CO 304.3.2 CO304.4.2							



	Course evaluation	Attendance	Minimum	Minimum 75% is Needed for both theory and clinical/practical						
		Quizzes	Taken every 2 months							
		Presentations	Seminars, Journal Clubs, Case presentations, Thesis and Library Dissertation presentations							
1.		Any Other	Project based learning, flip learning, Assignments							
1.		End Term examination	700 Marks	Theor y	1 ST YEAR – 100 Marks	3 rd year – 300 marks				
				Practi cal		3 rd year – 300 marks				
		1. Sturdevant's – Art and Science of Operative Dentistry								
	Text book/s*	2. Pickard's Manual of Operative Dentistry								
2.		3. Ingle's Textbook of Endodontics								
2.		4. Cohen's Pathways of the Pulp								
		5. Grossman's Endodontic Practice								
		TED loorning								
3.	Other References	TED learning EBSCOHOST								
5.	Other References	Various scientific	articles fror	n various	sources					

Mapping of Course Outcomes with PO's and PSO's



CO's	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3
CO304.1.1	2	1	2	2	3	2	3	2	2
CO304.1.2	2	3	1	-	2	3	1	2	1
CO304.2.1	3	3	3	2	2	1	3	3	2
CO304.2.2	3	3	2	2	2	2	3	3	3
CO304.2.3	3	2	1	2	1	1	1	1	1
CO304.3.1	3	2	1	1	2	1	2	2	1
CO304.3.2	2	1	3	1	2	3	1	1	-
CO304.4.1	3	2	1	2	1	2	1	3	2
CO304.4.2	2	1	-	2	1	1	-	1	2