

Program Structure Template

School of Dental Sciences

MDS

(Master of Dental Surgery)

(Prosthodontics and Crown & Bridge)

SDS0102 (2018-2021)



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

Transformative educational experience Enrichment by educational initiatives that encourage global outlook Develop research, support disruptive innovations and accelerate entrepreneurship Seeking beyond boundaries

Core Values

Integrity Leadership Diversity Community



1.2 Vision, Mission and Core Values of the School

4

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

Creating a stimulating and flexible learning environment amongst the faculty and students

Strongly promoting research, innovation, clinical excellence

Promote and inculcate ethical values and continued betterment in the dental profession and in all facets of life.

Core Values

Integrity

Leadership

Diversity

Community



1.3 Programme 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: Training programme in Prosthetic dentistry including Crown & Bridge & Implantology is structured to achieve knowledge and skill in theoretical and clinical laboratory, attitude, communicative skills and ability to research with understanding of social, cultural, educational and environmental background of the society.

PEO2: To have acquired adequate knowledge and understanding of applied basic and systemic medical science, knowledge in general and particularly of head and neck.

PEO3: The postgraduates will be able to provide Prosthodontic therapy for patients with competence and working knowledge with understanding of applied medical, behavioral and clinical science, that are beyond the treatment skills of the general BDS graduate and MDS graduate of other specialties, to demonstrate evaluative and judgment skills in making appropriate decisions regarding prevention, treatment, after care and referral to deliver comprehensive care to patients.

1.3.3 Program Outcomes (PO's)

PO1: Knowledge: Ability to diagnose and planned treatment for patients requiring a Prosthodontic therapy like tooth and tooth surface restorations, Complete denture Prosthodontics, removable partial denture Prosthodontics, fixed prosthodontics and maxillofacial and Craniofacial Prosthodontics, implants and implant supported Prosthodontics, T.M.J. and occlusion, craniofacial esthetic, and biomaterials, craniofacial disorders, problems of psychogenic origin.

PO2: Skills: Understand the prevalence and prevention of diseases of craniomandibular system related to Prosthetic dentistry and the candidate should be able to restore lost functions of stomatognathic system namely mastication, speech, appearance and psychological comforts. By understanding biological, biomedical, bioengineering principles and systemic condition of the patient to provide a quality health care of the craniofacial region.



PO3: Attitude: Adopt ethical principles in all Prosthodontic practice. Professional honesty and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of the patient.

PO4: Communications: Should be able to communicate in simple understandable language *with* the patient and explain the principles of Prosthodontics to the patient. He should be able to guide and counsel the patient with regard to various treatment modalities available. Develop the ability to communicate with professional colleagues through various media like Internet, e-mail, videoconference, and etc. to render the best possible treatment.

PO5: lab equipment's& Materials: Laboratory technique management based on skills and knowledge of Dental Materials and dental equipment and instrument management. Perform clinical and Laboratory procedure with understanding of biomaterials, tissue conditions related to prosthesis and have competent dexterity and skill for performing clinical and laboratory procedures in fixed, removable, implant, maxillofacial, TMJ and esthetics Prosthodontics.

PSO1: Train the student to know the proper diagnosis and plan the treatment of various prosthodontics conditions

PSO2: Should able to offer the Prosthodontic line of treatment complete denture cases, partial denture cases fixed partial denture cases Maxillofacialcases and all types of implant treatment

PSO3: should able to select the specific dental materials based on their properties, manipulation and of Prosthodontic conditions

PSO4: to encourage and promote innovation, research and publication and also to promote collaboration with various other universities and disciplines



Program Structure Template School of Dental Sciences Master of Dental Surgery (MDS) Batch: 2018-2021

S.	Paper ID	Subject	Subjects		Teaching Load		
No.		Code		L	T	P	Type of Course:
							1. CC
							2. AECC
							3. SEC
							4. DSE
THEO	RY SUBJEC	CTS					
1.	MDS301	MDS301	Prosthodontics And Crown & Bridge	132			CC
D (1	1/870 87	/*					
Practio	Practical/Viva-Voce/Jury						
2.	MDS301	MDS301	Prosthodontics And Crown & Bridge			4188	CC
۷.							
TOTAL CREDITS					NA		



2.1 Template A1: Syllabus for Theory Subjects

School:		SCHOOL OF DENTAL SCIENCES				
Program:		MASTER OF PROSTHODONTICS, CROWN & BRIDGE				
Batch		2018-2021				
1	Course Code	MDS301				
2	Credits	NA				
3	Contact Hours (L-T-P)	132-0-4188				
4	Course Type	CC				
5	Course Objective	1. Training programme in prosthetic dentistry including Crown & Bridge & Implantology is structured to achieve knowledge and skill in theoretical and clinical laboratory, attitude, communicative skills and ability to research with understanding of social, cultural, educational & environmental background of the society. 2. To have acquired adequate knowledge & understanding of applied basic and systemic medical science, knowledge in general & particularly of head & neck. 3. The postgraduates will be able to provide Prosthodontic therapy for patients with competence and working knowledge with understanding of applied medical, behavioural and clinical science, that are beyond the treatment skills of the general BDS Graduate & MDS Graduate of other specialities, to demonstrate evaluative and judgement skills in making appropriate decisions regarding prevention, treatment, after care and referral to deliver comprehensive care to patients.				
6	Course Outcomes	The student will be able to: 301.1 The candidate would possess knowledge about applied basic and systematic medical sciences. 301.2 The candidate would diagnose the ailment, plan a treatment, communicate it with the patient and execute it, 301.3 the candidate would be able to examine the patients requiring prosthodontic therapy, investigate the patient systemically, analyze the investigation results. 301.4 The candidate would possess knowledge about age changes and Prosthodontic Therapy for the aged related to removable Prosthodontics and oral implantology, 301.5 The candidate would be able to demonstrate the clinical competence to restore lost functions of stomatognathic system namely mastication, speech, appearance and psychological comforts by removable prosthesis, 301.6 The candidate would be able to adopt ethical principles Prosthodontic practice. Professional honesty and integrity are to be				

*	SHARI	DA
	UNIVERS	

		Beyond Boundaries
		fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of patient.
		301.7- The candidate would be able to understand the prevalence and prevention of disease of craniomandibular system related to fixed prosthetic dentistry. The candidate would be willing to adopt new methods and techniques in fixed prosthodontics from time to time based on the scientific research, which is in patient's best interest.
7	Course Description	The M. D. S. in Prosthodontics, Crown & Bridge is a three year Postgraduate program. It is the dental speciality pertaining to the diagnosis, treatment planning, rehabilitation and maintenance of the oral function, comfort, appearance & health of patients with clinical conditions associated with missing or deficient teeth & or maxillofacial tissues by using biocompatible tissues. 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				
MDS-301.A	Unit A APPLIED	Unit A APPLIED BASIC SCIENCES		
MDS-301.A1	Unit A Topic 1	Applied Anatomy of Head & Neck		
MDS-301.A2	Unit A Topic 2	Applied Physiology & Nutrition		
MDS.301. A 3	Unit A Topic 3	Endocrines		
MDS-301.A4	Unit A Topic 4	Applied Biochemistry		
MDS-301.A5	Unit A Topic 5	Applied Pharmacology & Therapeutics		
MDS-301.A6	Unit A Topic 6	Applied Pathology & Microbiology		
MDS-301.A7	Unit A Topic 7	Biostatistics		
MDS-301.A8	Unit A Topic 8	Applied Radiology		
MDS-301.A9	Unit A Topic 9	Applied Medicine & Surgery		
MDS-301.A10	Unit A Topic 10	Applied Dental Materials		
MDS-301.B	Unit B REMOVA	it B MOVABLE PROSTHODONTICS		
MDS-301.B1	Unit B Topic 1	Prosthodontic Treatment for Completely Edentulous Patient- Complete Denture, Immediate Complete Denture, Single CD, Tooth- Supported CD, Implant- Supported Prosthesis.		
MDS-301.B2	Unit B Topic 2	Prosthodontic Treatment for Partially Edentulous Patient- Clasp Retained Partial Denture, Intracoronal & Extracoronal Precision Attachment Retained Partial Denture.		
MDS-301.C	Unit C MAXILLO	t C XILLOFACIAL REHABILITATION		
MDS-301. C1	Unit C Topic 1	Osseointegrated Supported Facial & Maxillofacial Prosthesis		
MDS-301.C2	Unit C Topic 2	Material & Lab Procedures for maxillofacial prosthesis		
MDS-301 D	Unit D FIXED P	ROSTHODONTICS		
MDS-301 D1	Unit D Topic 1	Diagnosis & Treatment Planning		
MDS-301 D2	Unit D Topic 2	Management of Carious Teeth		
MDS-301 D3	Unit D Topic 3	Periodontal Considerations		
MDS-301 D4	Unit D	Biomechanical Principles of Tooth Preparation		



	Topic 4	Beyond Boundaries		
MDC 201 D5	•	Tooth Description for Complete Metal Crown All		
MDS-301 D5	Unit D	Tooth Preparation for Complete Metal Crown, All-		
	Topic 5	Porcelain Crown, PFM Crown, Partial 3/4 th , Radicular		
		7/8 th , fronional half, telescopic, pin-ledge, laminates,		
		inlays, onlays, resin-bonded retainers.		
MDS-301 D6	Unit D	Isolation & Fluid Control		
	Topic 6			
MDS-301 D7	Unit D	Resins, Gold & its Alloys, Glass-Ionomer Restorations.		
	Topic 7			
MDS-301 D8	Unit D	Restoration of Endodontically- Treated Teeth		
	Topic 8			
MDS-301 D9	Unit D	Management of Failed Restorations		
	Topic 9			
MDS-301 E	OSSEOIN	TEGRATED SUPPORTED FIXED-		
	PROSTH	ODONTICS		
1 FD C 404 F14		_ _		
MDS-301 E1	Unit E	Rationale for Dental Implants-Diagnostic Imaging &		
	Topic 1	techniques, Prosthetic Options in Implant Dentistry,		
		Available Bone & Dental Treatment Plan.		
MDS-301 E2	Unit E	Treatment Planning- Pre-implant Prosthodontics,		
	Topic 2	Diagnostic Casts & Surgical Templates, Single- tooth		
		replacement, Treatment planning for the edentulous		
		maxilla & mandible.		
MDS-301 E3	Unit E	Fundamental Science- Medical Evaluation,		
	Topic 3	Pharmacology, Applied Anatomy, Biomaterials,		
		Biomechanics, Dental Implants Surface, Bone Response		
		to Mechanical Loads.		
MDS-301 E4	Unit E	Implant Surgery- Surgical Guidelines for posterior/		
	Topic 4	anterior Single-tooth replacement, Implant Insertion in		
		edentulous anterior & Posterior Mandible/Maxilla, Stage-		
		II Surgery.		
MDS-301 E5	Unit E	Soft & Hard Tissue Rehabilitation- Bone Grafting & it's		
	Topic 5	Materials, Socket Grafting, Barrier Membrane, Bone		
		Regeneration, Maxillary Sinus.		
MDS-301 E6	Unit E	Implant Maintenance- Implant Quality of Health Scale.		
	Topic 6			
MDS-301 F	TMJ-TEMI	POROMANDIBULAR JOINT DYSFUCTION- SCOPE,		
	DEFINITIO	TIONS AND TERMINOLOGY		
MDS-301 F1	Unit F	TMJ & its Function, Orofacial Pain & Pain from TMJ,		
MIDO-SUI I I	Topic 1	TMJ & its Function, Orolacial Fain & Fain from TMJ, TMJ Dysfunction, TMJ Disorders.		
MDS-301 F2	Unit F	Etiology, Diagnosis & Craniomandibular Pain-		
	Topic 2	Differential Diagnosis & Management of Orofacial Pain,		
		TMJ Pain-psychologic, physiologic.		
MDS-301 F3	Unit F	Occlusal Splint therapy-construction & fitting of occlusal		
HIDD-SUI I'S	Topic 3	splints, management of occlusal splints, therapeutic		
	Topic 3	spinits, management of occiusar spinits, therapeutic		



		effects of occlusal splints, TMJ Joint uploading & Anterior Repositioning appliances, Use & care of occlusal splints.	
MDS-301 F4	Unit F Topic 4	Occlusal Adjustment Procedures- reversible- Occlusal Stabilisation splints, jaw exercises, jaw manipulation. Irreversible- Occlusal repositioning Appliance, Orthodontic Treatment, Orthognathic Surgery.	



	Course evaluation	Attendance	Minimum 75% is Needed for	both theory and clinical practical			
		Quizzes	Taken in every 3 months				
		Presentation	Video Presentation				
		S					
1.		Any Other	Project based learning,	flip learning, Assignments			
		1 st year examination	100) Marks			
		3 rd year examination	600) Marks			
		1. Pr	osthodontic Treatment for				
2	Text	Edent	culous Patient, Bouchers, Mosby	Boucher			
2.	book/s*		Publications, 12 th Edition.				
		2. Rem	ovable Partial Prosthodontics	Mc. Cracken			
		3. Fundaı	mentals of Fixed Prosthodontics	H.T. Shillingburg			
		4. Conte	emporary Fixed Prosthodontics	S.F. Rosenstiel			
		5. Conten	nporary Implant Prosthodontics, 1 st edition	Carl.E.Misch			
		6. Mana	gement of Temporomandibular				
			Disorders & Occlusion	Jeffery.P. Okeson			
		7. Clin	ical Maxillofacial Prosthetics	T.D. Taylor			
		8. N	Iaxillofacial Rehabilitation	John Beumer III			
	Other		TED learnin				
3.	References		EBSCOHOST				
	References		Various scientific articles fro	m various sources			