

M.D.S**SUBJECT: PROSTHODONTICS AND CROWN & BRIDGE**

Teaching Scheme (Hours)				Credits	Examination Scheme				
Lec(L)	Prac(P)	Clinical(C)	Total		External		Internal		Total
					Theory	Pract	Theory	Pract	
936	936	4860	6732		2	1	1	1	5

A. COURSE OVERVIEW

Training program for the dental post graduates in Prosthetic dentistry– removable dental prosthodontics, fixed dental prosthodontics (Crown & Bridge), implantology, maxillofacial prosthodontics and esthetic dentistry and Crown & Bridge including Implantology is structured to achieve knowledge and skill in theoretical and clinical laboratory, attitude, communicative skills and ability to perform research with a good understanding of social, cultural, educational and environmental background of the society

B. COURSE CONTENT

NO	TOPIC	L+P+C(hrs)	CLs
1	APPLIED ANATOMY OF HEAD AND NECK	15+10+10	CL1,2,3,6
2	APPLIED PHYSIOLOGY AND NUTRITION	15+10+10	CL1,2,3,6
3	APPLIED BIOCHEMISTRY	10+10+10	CL1,2,3,6
4	APPLIED PHARMACOLOGY AND THERAPEUTICS	10+10+10	CL1,2,3,6
5	APPLIED PATHOLOGY	10+10+10	CL1,2,3,4,5,6
6	APPLIED MICROBIOLOGY:	10+10+10	CL1,2,3,4,5,6
7	APPLIED ORAL PATHOLOGY	10+10+10	CL1,2,3,4,5,6
8	LABORATORY DETERMINATIONS	10+10+10	CL1,2,3,4,5,6
9	BIOSTATISTICS	10+10+10	CL1,3,6
10	RESEARCH METHODOLOGY	20+10+10	CL1,6
11	APPLIED RADIOLOGY	10+10+10	CL1,2,3,4,5,6
12	APPLIED MEDICINE	10+10+10	CL1,2,3,4,5,6
13	APPLIED SURGERY & ANESTHESIA	10+10+10	CL1,2,3,4,5,6
14	APPLIED PLASTIC SURGERY	10+10+10	CL1,2,3,4,5,6
15	APPLIED DENTAL MATERIALS	20+30+50	CL1,6
16	NON-SURGICAL AND SURGICAL METHODS OF PROSTHODONTICS AND IMPLANTOLOGY	350+376+2000	CL1,2,3,4,5,6
17	MAXILLOFACIAL REHABILITATION	50+40+200	CL1,2,3,4,5,6
18	OCCLUSION	30+20+200	CL1,2,3,4,5
19	FIXED PROSTHODONTICS	266+250+1570	CL1,2,3,4,5
20	ESTHETICS	30+20+200	CL1,2,3,4,5,6
21	Teaching / Learning Activities	30+60+500	CL1,2,3,4,5,6

C. TEXT BOOKS

D. REFERENCE BOOKS

1. Charles M. Heartwell Jr. and Arthur O. Rahn; Syllabus of Complete denture, 4th edition, Lea & Febiger, 1992.
2. Zarb, Bolender; Boucher's "Prosthodontic treatment for edentulous patients" , 13th edition, Mosby Publications, 2012.
3. Sheldon Winkler; Essentials of complete denture prosthodontics , 3rd edition, AITBS Publishers, 2015.
4. William R. Laney; Maxillofacial prosthetics, 1st edition, Psg Pub.Co., 1979.
5. McCracken's Removable partial prosthodontics, 12th edition, Elsevier Publications, 2012.
6. Ernest L. Miller and Joseph E. Grasso; Removable partial prosthodontics, 3rd edition, Mosby publications, 1990.

CL Number	Skill	Statement
CL1	Knowledge	<ul style="list-style-type: none"> • Possess knowledge of applied basic and systemic medical sciences. • Knowledge of various Dental Materials used in the specialty. • principles involved for support, retention, stability, esthetics, phonation, mastication, occlusion, behavioral, psychological, preventive and social aspects of Prosthodontics science of Oral and Maxillofacial Prosthodontics and Implantology
CL2	Patient Care: Diagnosis	<ul style="list-style-type: none"> • Students shall acquire knowledge and practice of history taking, Diagnosis, treatment planning, prognosis, record maintenance of oral, craniofacial and systemic region
CL3	Investigations	<ul style="list-style-type: none"> • Should be able to interpret various radiographs like IOPA, OPG, CBCT and CT. Should and be able to plan and modify treatment plan based on radiographic findings • adequate knowledge about common laboratory investigations and interpretation of their results
CL4	Patient Care: Treatment planning	<ul style="list-style-type: none"> • Ethically Integrate multiple disciplines into an individual comprehensive sequence treatment plan using diagnostic and prognostic information • Ability for comprehensive rehabilitation concept with pre prosthetic treatment plan including surgical re-evaluation and prosthodontic treatment planning, impressions, jaw relations, utility of face bows, articulators, selection and positioning of teeth, teeth arrangement for retention, stability, esthetics, phonation, psychological comfort, fit and insertion
CL5	Patient Care: Treatment	<ul style="list-style-type: none"> • To perform Clinical and Laboratory procedures with a clear understanding of biomaterials, tissue conditions related to prosthesis and have required dexterity & skill for performing clinical and laboratory all procedures in fixed, removable, implant, maxillofacial, TMJ and esthetics Prosthodontics. • To carry out necessary adjunctive procedures to prepare the patient before prosthesis like tissue preparation and preprosthetic surgery and to prepare the patient before prosthesis / prosthetic procedures
CL6	Research and Innovation	<ul style="list-style-type: none"> • Upgradation of knowledge and skill from time to time, familiarize with new concept and equipment in prosthodontics and crown & bridge.
CL 7	Evidence Based Learning	<ul style="list-style-type: none"> • Consolidate all the above mentioned major competencies acquired during the course and integrate newer evidence based knowledge in displaying expertise in the science of

E. COMPETENCY LEVEL

PROGRAM SPECIFIC OUTCOME (PSO)

PSO1	DIAGNOSIS	<ul style="list-style-type: none"> • Possess knowledge of applied basic and systemic medical sciences. • Knowledge of various Dental Materials used in the specialty and be able to provide appropriate indication, understand the manipulation characteristics, compare with other materials available, be adept with recent advancements of the same • The theoretical knowledge and clinical practice shall include principles involved for support, retention, stability, esthetics, phonation, mastication, occlusion, behavioral, psychological, preventive and social aspects of Prosthodontics science of Oral and Maxillofacial Prosthodontics and Implantology
PSO2	INVESTIGATIONS	<ul style="list-style-type: none"> • Should be able to interpret various radiographs like IOPA, OPG, CBCT and CT. Should and be able to plan and modify treatment plan based on radiographic findings • adequate knowledge about common laboratory investigations and interpretation of their results
PSO3	TREATMENT	<ul style="list-style-type: none"> • To ethically and morally carry out necessary

		adjunctive procedures to prepare the patient before prosthesis like tissue preparation and preprosthetic surgery and to prepare the patient before prosthesis / prosthetic procedures
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F. COURSE MATRIX

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PS O1	PS O2	PS O3
CL1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2
CL2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
CL3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2
CL4	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3
CL5	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3
CL6	3	3	3	3	3	2	2	2	2	2	3	3	3	3	3	3	2	2
CL7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Avg	3.0	3.0	3.0	3.0	3.0	2.9	2.6	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.0	3.0	2.6	2.4