

PROSTHODONTICS and CROWN & BRIDGE

All the students of the speciality departments shall complete the minimum
quota for the teaching and learning activities, as follows:

- (a) Journal Clubs: 5 in a year
- (b) Seminars: 5 in a year
- (c) Clinical Case Presentations: 4 in a year
- (d) Lectures taken for undergraduates: 1 in a year
- (e) Scientific Paper / Poster Presentations in State / National Level Conferences:
4 papers/posters during three years of training workshop period
- (f) Clinical Pathological Conferences: 2 presentations during three years of training period
- (g) Scientific Publications (optional): One publication in any indexed scientific journal
- (h) Submission of Synopsis: One synopsis within six months from the date of commencement of the course
- (i) Submission of Dissertation: One dissertation within six months before appearing for the university examination
- (j) Submission of Library Dissertation: One dissertation within eighteen months from the date of commencement of the course

I YEAR M.D.S.

- Theoretical exposure of all applied sciences of study
- Clinical and non-clinical exercises involved in Prosthodontics therapy for assessment and acquiring higher competence
- Commencement of Library Assignment within six months.
- Short epidemiological study relevant to Prosthodontics.
- Acquaintance with books, journals and referrals to acquire knowledge of published books, journals and website for the purpose of gaining knowledge and reference – in the fields of Prosthodontics including Crown & bridge and implantology
- Acquire knowledge of instruments, equipment, and research tools in Prosthodontics.
- To acquire knowledge of Dental Material Science – Biological and biomechanical & bio-esthetics, knowledge of using material in laboratory and clinics including testing methods for dental materials.
- Participation and presentation in seminars, didactic lectures
- Evaluation – Internal Assessment examinations on Applied subjects

II YEAR M.D.S.

- Acquiring confidence in obtaining various phases and techniques for providing Prosthodontic therapy.

- Acquiring confidence by clinical practice with sufficient numbers of patients requiring tooth and tooth surface restorations.
- Fabrication of Adequate number of complete denture prosthesis following, higher clinical approach by utilizing semi-adjustable articulators, face bow and graphic tracing.
- Understanding the use of the dental surveyor and its application in diagnosis and treatment plan in R.P.D.
- Adequate numbers of R.P.D. covering all partially edentulous situation
- Adequate number of Crowns, Inlays, laminates F.P.D. covering all clinical situation.
- Selection of cases and principles in treatment of partially or complete edentulous patients by implant supported prosthesis.
- Treating single edentulous arch situation by implant supported prosthesis.
- Diagnosis and treatment planning for implant prosthesis.
- Ist stage and IInd stage implant surgery
- Understanding the maxillofacial Prosthodontics
- Treating craniofacial defects
- Management of orofacial defects
- Prosthetic management of TMJ syndrome
- Occlusal rehabilitation
- Management of failed restoration
- Prosthodontics Management of patient with psychogenic disorder.
- Practice of child and geriatric prosthodontics
- Participation and presentation in seminars, didactics lectures
- Evaluation – Internal Assessment examinations

III YEAR M.D.S

- Clinical and laboratory practice continued from IInd year 16
- Occlusion equilibration procedures – fabrication of stabilizing splint for parafunctional disorders, occlusal disorders and TMJ functions.
- Practice of dental, oral and facial esthetics
- The clinical practice of all aspects of Prosthodontic therapy for elderly patients.
- Implants Prosthodontics – Rehabilitation of Partial Edentulous, Complete edentulism and for craniofacial rehabilitation
- Failures in all aspects of Prosthodontics and its management and after care
- Team management for esthetics, TMJ syndrome and Maxillofacial and Craniofacial Prosthodontics
- Management of Prosthodontics emergencies, resuscitation.
- Candidate should complete the course by attending by large number and variety of patients to master the prosthodontic therapy. This includes the practice management, examinations, treatment planning, communication with patients, clinical and laboratory techniques materials and instrumentation requiring different aspects of prosthodontic therapy, Tooth and Tooth surface restoration, Restoration of root treated teeth, splints for periodontal rehabilitations and fractured jaws, complete dentures, R.P.D. FPD. Immediate dentures over dentures implant supported prosthesis,

maxillofacial and body prosthesis, occlusal rehabilitation.

- Prosthetic management of TMJ syndrome
- Management of failed restorations
- Complete and submit Library Assignment 6 months prior to examination.
- Candidates should acquire complete theoretical and clinical knowledge through seminars, symposium, workshops and reading.
- Participation and presentation in seminars, didactic lectures
- Evaluation – Internal Assessment examinations three months before University examinations

a) Final dissertation
(As per norms of the University)

M.D.S. Part II Clinical Programme Clinical Requirement During Training

1.	Complete Dentures		
a)	Routine Cases	:	30
b)	Balanced Occlusion	:	05
2.	Removable Partial		
A.	Dentures		02
	Cast Partial Dentures	:	
B.	Interim Partial Dentures	:	10
C.	Transitional Partial Denture	:	05
D.	Immediate	:	05
3.	Dentures		
A.	Crowns	:	20
	Posterior full metal crown		
B.	Posterior full metal ceramic	:	10
C.	crown		
D.	Anterior metal ceramic		1
	crowns : All ceramic		05
	crowns	:	
4.	Fixed Partial Dentures		15
	(Bridges):		
5.	Maxillofacial Prosthesis	:	05
6	Implant Prosthesis	:	02
7	Full mouth rehabilitation	:	02

PROSTHODONTIC TREATMENT MODALITIES

1. Diagnosis and Treatment plan in prosthodontics
2. Tooth and tooth surface
 - ☐ restoration Fillings
 - ☐ Veneers – composites and
 - ☐ ceramics Inlays – composite,
 - ☐ ceramic and alloys Onlay -
 - ☐ composite, ceramic and alloys
 - ☐

Partial crowns – 1/4th , 4/5th, 7/8th,
 ½ crowns Pin – ledge
 Radicular
 crowns Full
 crowns

Tooth Replacements PARTIAL

3. COMPLE

- TE
- Tooth supported Fixed partial denture Overdenture
- Tissue supported Interim partial denture Complete
- denture Intermediate partial denture Immediate
- denture Immediate complete denture
- Tooth & Tissue Cast partial denture Over
- denture Supported Precision
- attachment
- Implant supported Cement retained Bar
- attachment Screw retained Ball
- attachment
- Clip attachment
- Tooth Screw
- retained Supported
- Cement retained
- Root supported Dowel and core
- Overdenture Pin retained
- Precision attachments
- Intra coronal attachments
- Extra coronal attachments
- Bar – slide attachments
- Joints and hinge joint attachments.
- 4. Tooth and tissue defects (Maxillofacial and Cranio-facial prosthesis)
- A. Congenital Defects
- a. Cleft lip and palate)
- b. Pierre Robin Syndrome)
- c. Ectodermal dysplasia) cast partial dentures
- d. Hemifacial microsomia) Implant supported prosthesis
- e. Anodontia) complete dentures
- b) Library Dissetation
- f. Oligodontia) fixed partial dentures
- g. Malformed teeth)
- B. Acquired defects

- a. Head and neck cancer patients- prosthodontic splints and stents
- b. Restoration of facial defects
 - Auricular prosthesis
 - Nasal prosthesis
 - Orbital prosthesis
 - Cramofacial implants
- c. Midfacial defects) cast partial denture
- d. Restoration of maxillofacial trauma) Implant supported dentures
- e. Hemimandibulectomy) complete dentures
- f. Maxilloctomy)
- g. Lip and cheek support prosthesis
- h. Ocular prosthesis
- i. Speech and Velopharyngeal prosthesis
- j. Laryngectomy aids
- k. Esophageal prosthesis
- l. Nasal stents
- m. Tongue prosthesis
- n. Burn stents
- o. Auditory inserts
- p. Trismus applicances
- 5 T.M.J. and occlusal disturbances
- a. Occlual equilibrium
- b. Splints –
 - Diagnostic
 - Repositioners/Deprogra
 - mmers
- c. Anterior bite plate
- d. Posterior bite plate
- e. Bite raising appliances
- f. Occlusal rehabilitation
- 6 Esthetic/Smile designing
- a. Laminates/Veneers
- b. Tooth contouring (peg laterals, malformed teeth)
- c. Tooth replacements
- d. Team management
- 7 Psychological therapy
- a. Questionnaire
- b. Charts, papers, photographs
- c. Models
- d. Case reports
- e. Patient counseling
- f. Behavioral modifications
- g. Referrals
- 8 Geriatric Prosthodontics
- a. Prosthodontics for the elderly
- b. Behavioral and psychological counseling
- c. Removable Prosthodontics
- d. Fixed Prosthodontics

- e. Implant supported Prosthodontics
- f. Maxillofacial Prosthodontics

- 9 Preventive measures
 - a. Diet and nutrition modulation and counseling
 - b. Referrals

The bench work should be completed before the clinical work starts during the first year of the MDS Course

- 1. Complete dentures
 - 1 Arrangements in adjustable articulator for
 - Class I
 - Class II
 - Class III
 - Various face bow transfer to adjustable articulators
 - Processing of characterized anatomical denture
- II. Removable partial denture
 - 1. Design for Kennedy's Classification (Survey, block out and design)
 - Class I
 - Class II
 - Class III
 - Class IV
 - 2. Designing of various components of RPD
 - 3 Wax pattern on refractory cast
 - Class I
 - Class II
 - Class III
 - Class IV
 - 4 Casting and finishing of metal frameworks
 - 5 Acrylisation on metal frameworks for Class I Class III with modification
- III Fixed Partial Denture
 - 1 Preparation in ivory teeth/natural teeth
 - PVC for metal
 - PVC for ceramic
 - Porcelain jacket crown
 - Acrylic jacket crown
 - PFM crown
 - 3/4th (canine, premolar and)
 - 7/8th posterior
 - Proximal half crown
 - Inlay – Class I, II, V
 - Onlay – Pin ledged, pinhole
 - Laminates
 - 2 Preparation of different die system
 - 3 Fabrication of wax pattern by drop wax build up technique
 - Wax in increments to produce wax coping over dies of teeth preparations on

substructures

Wax additive technique

c. Psychological and physiological considerations

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• 3-unit wax pattern (maxillary and Mandibular)

• Full mouth

4 Pontic design in wax pattern

• Ridge lap

• Sanitary

• Modified ridge lap

• Modified sanitary

• Spherical or conical

5 Fabrication of metal framework

• Full metal bridge for posterior (3 units)

• Coping for anterior (3 unit)

• Full metal with acrylic facing

• Full metal with ceramic facing

• Adhesive bridge for anterior

• Coping for metal margin ceramic crown

• Pin ledge crown

6 Fabrication of crowns

• All ceramic crowns with characterization

• Metal ceramic crowns with characterization

• Full metal crown

• Precious metal crown

• Post and core

7 Laminates

• Composites with characterization

• Ceramic with characterization

• Acrylic

8 Preparation for composites

• Laminates

• Crown

• Inlay

• Onlay

• Class I

• Class II

• Class III

• Class IV

• Fractured anterior tooth

IV. Maxillofacial prosthesis

1. Eye

2. Ear

3. Nose

4. Face

5. Body

6. Cranial

7. Maxillectomy

8. Finger prosthesis
9. Guiding flange
10. Obturator
- V. Implant supported prosthesis
 1. Step by sep procedures – laboratory phase
- VI Other exercises
 1. TMJ splints – stabilization appliances, maxillary and Mandibular repositioning appliances
 2. Anterior disclusion appliances
 3. Chrome cobalt and acrylic resin stabilization appliances
 4. Modification in accommodation in irregularities in dentures
 5. Occlusal splint
 6. Periodontal splint
 7. Precision attachments – custom made
 8. Over denture coping
 9. Full mouth rehabilitation (by drop wax technique, ceramic build up)

TMJ appliances – stabilization appliances

CROWNS

PVC for metal	1	2	2	10
PVC for Ceramic	1	2	2	10
Precious metal crown	1		1	5
Galvanoformed crown			1	1
3/4th Crowns (Premolars, canines and centrals)			1	5
7/8th Posterior Crown	1		5	
Proximal half crown	1		5	
Pin ledge and pin hole crowns	1		5	5
Telescopic Crowns	1			

Intraradicular crowns (Central, internal canine premolar and molar) 1

Crown as implant supported prosthesis 1 1 5

FIXED PARTIAL DENTURES

Cast porcelain (3 units)	1		5	
Cast metal – precious and non precious(3 unit posterior)	1			5
Porcelain fused metal (anterior and posterior)	1	1	1	10
Multiple abutment – maxillary and mandibular full arch	1	1	1	5
Incorporation of custom made and ready made precision joint or attachments	1	1	1	1

Interim provisional restorations (crowns and FPDs) 10 1 1 10

Adhesive bridge for anterior posterior

Immediate fixed partial dentures(interim) 1 5 1 5

Fixed prosthesis as a retention and rehabilitation for acquired and congenital defects – maxillofacial prosthesis 1 1 1 5

Implant supported prosthesis 1 1 1

Implant – tooth supported prosthesis REMOVABLE 1 1 1 10

PARTIAL DENTURE

Provisional partial denture prosthesis

Cast removable partial denture(Kennely's Applegate classification with

modification)	1	1
1 6		
Removable bridge with precision attachments and telescopic crowns for anterior and posterior		1
1 2 4		
Immediate RPD1 1 5		
Partial denture for medically compromised and handicapped patients	1	1 1
5		

COMPLETE DENTURES

Neurocentric occlusion & characterized prosthesis	1	5
Anatomic characterized prosthesis (by using semi adjustable articulator)		1 25
Single dentures	1	5
Overlay dentures	1	5
Interim complete dentures as a treatment prosthesis for abused denture supporting tissues		
1 5		
Complete denture prosthesis (for abnormal ridge relation, ridge form & ridge size)		
1 5		
Complete dentures for patients with TMJ syndromes	1	5
Complete dentures for medically compromised & handicapped patients		1 5

GERIATRIC PATIENTS

Tooth and tooth surface restorations, crowns, fixed prosthesis, removable prosthesis	1	5
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IMPLANT SUPPORTED COMPLETE PROSTHESIS

Implant supported complete prosthesis(Maxillary and mandibular)	1	1
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MAXILOFACIAL PROSTHESIS

Guiding flange and obturators	1	4
Speech and palatal lift		1 2
prosthesis Eye prosthesis	1	2
Ear Prosthesis	1	2
Nose Prosthesis	1	2
Face prosthesis		1
Maxillectomy	1	2
Hemimandibulectomy	1	2
Cranioplasty	1	1
Finger / head, foot	1	2
Body prosthesis	1	1
Management of burns, scars		1

TMJ SYNDROME

MANAGEMENT

Splints- periodontal, teeth, jaws		
TMJ supportive and treatment prosthesis	1	1

Stabilization appliances for maxilla and mandible with freedom to move from IP to CRCP 1

In IP without the freedom to move to CRCP 1

Repositioning appliances, anterior disclusion

Chrome cobalt and acrylic resin stabilization appliances for modification to

accommodate for the irregularities in the dentition 2
 Occulusal adjustment and occlusal equilibrium 1 4

FULL MOUTH REHABILITATION

Full mouth rehabilitation – Restoration of esthetics and function of stomatognathic system

INTER-DISCIPLINARY TREATMENT MODALITIES

Inter-disciplinary management – restoration of Oro craniofacial defects for esthetics, phonation,

mastication and psychological comforts 1 2

MANAGEMENT OF FAILED RESTORATION

Tooth and tooth surface restoration 5

Removable prosthesis 10

Crowns and fixed prosthesis 5

Maxillofacial prosthesis 2

Implant supported prosthesis 1

Occlusal rehabilitation & TMJ Syndrome 2

Restoration failure of Psychogenic origin 5

Failure to age changes 2

PRACTICAL

Presentations Of Treated Patients And Record During 3 Yrs Training Period

A C.D. 5 Marks

B R.P.D 5 Marks

C F.P.D 10 Marks

D I.S.P 10 Marks

E Occlusal Rehabilitation 10 Marks

F Maxillofacial Prosthesis

10 Marks Total 50 Marks

Presentation Of Actual Treated Patient.

A Treatment Plan 10 Marks

B Tentative Jaw Relation 5 Marks

C Face Bow Transfer 5 Marks

D Transferring It To Articulators 10 Marks

E Extra Oral Tracing And Securing Centric And Protrusive Record 25 Marks

F Transferring On Articulators 10 Marks

G Selection Of Teeth 5marks

H Arrangment Of Teeth 15 Marks

I Waxed Up Denture Trial 10

Marks J Denture

Insertion 5 Marks

Total 100 Marks

F.P.D

- A. Case Discussion And Selection Of Patient 10 Marks
- B. Abutment Preparation , Isolation And Fluid Control 50 Marks
- C. Gingival Retraction And Impression 20 Marks
- D. Provisionalization 20

Marks Total 100

Marks

R.P.D

- A. Surveying And Designing Of Partially Edentulous Cast 25 Marks
- B. Discussion On Components And Material Selection Including Occlusion Scheme 25 Marks Total 50 Marks

Viva-Voce

- A. Viva-Voce Examination 50 Marks
- B. Five Cases Presentation 30 Marks
- C. Pedagogue Exercises 20

Marks Total 100

Marks

