

**DEPARTMENT OF PROSTHODONTICS, CROWN AND BRIDGE INCLUDING
IMPLANTOLOGY**

TEACHING –LEARNING STRATEGIES

DIDACTIC (1/3RD)

<i>STRATEGY</i>	<i>TOTAL HOURS ALLOTTED</i>	<i>YEARWISE DISTRIBUTION</i>			<i>TEACHING MEDIA</i>
		<i>II BDS</i>	<i>III BDS</i>	<i>IVBDS</i>	
<i>LECTURES</i>	<i>135 hrs + REMEDIAL CLASSES</i>	<i>20hrs</i>	<i>35hrs</i>	<i>80hrs</i>	<i>LCD BLACKBOARD & CHALK POWERPOINT PRESENTATION ONLINE CLASSES</i>

COURSE CONTENT

DIDACTIC

<i>TOTAL HOURS ALLOTTED</i>	<i>YEAR</i>	<i>TOPICS</i>	<i>MUST KNOW</i>	<i>DESIRABLE TO KNOW</i>	<i>NICE TO KNOW</i>
<i>20 hrs</i>	<i>II BDS</i>	<i>Introduction to Prosthodontics – Scope and Definition (3 hrs)</i>	<i>Masticatory apparatus and function Various branches of Prosthodontics and prosthesis Requirements of prosthesis- Physical, biological, esthetic considerations.</i>		
		<i>Introduction to</i>	<i>Complete Denture</i>		

	<p>components of Prosthesis</p> <p>(3 hrs)</p>	<p>Prosthesis:</p> <ol style="list-style-type: none"> 1. Various surfaces (Border and surface anatomy). 2. Components – Base and Teeth. <p>Removable Partial Denture: introduction Classification & components</p> <p>Fixed Partial Denture: introduction Classification & components</p>		
	<p>All related definitions and terminologies from glossary</p> <p>(1 hr)</p>			
	<p>Fixed Partial Dentures</p> <p>3 hrs</p>	<p>Principles of tooth preparation</p>		
	<p>Introduction to all steps involved in fabrication of Prosthesis Impression making</p> <p>2 hr</p>	<p>Definition and requirements and types of impressions</p> <p>Various materials used for different impressions</p> <p>Different theories of impression making</p>		

	<p>Impression Trays</p> <p>1 hr</p>	<p>Definition, classification, materials, advantages and disadvantages</p> <p>Selection of trays</p>	<p>Special trays</p> <p>Spacer design</p>	
	<p>Introduction to jaw relation record</p> <p>1 hr</p>	<p>Definition and type</p> <p>Temporary denture base – Indications, Advantages, Disadvantages, materials used</p> <p>Occlusion rims – materials, shape, dimensions</p> <p>Level of occlusion plane</p> <p>Clinical procedures of jaw relation recording in brief</p>	<p>Guide for esthetics</p> <p>– central line, lip line, canine line, smile line</p>	
	<p>Articulators and face bow</p> <p>1 hr</p>	<p>Need for articulators</p> <p>Definition, classification, parts, advantages, disadvantages of articulators</p> <p>Definitions, classification, parts, advantages, disadvantages and</p>	<p>face bow transfer to an articulator on a dummy</p>	

			purpose of face bow transfer		
		Preliminary Arrangement Of Artificial Teeth 2 hrs	Guides for preliminarily arranging anterior teeth Setting Maxillary anterior teeth in wax for try in Setting mandibular anterior teeth in the wax for try in Setting posterior teeth for try in	Importance of proper Anteroposterior positioning of the anterior teeth	Relations hip to incisive papilla esthetics and leverage
		Processing Procedures 2 hrs	Flasking Dewaxing Packing Curing	Finishing and polishing of acrylic dentures	
		Casting Procedures 2 hrs		Preparation of die Wax pattern Investing Burnout Casting Finishing and polishing	

35 hrs	III BDS	<i>Introduction to Prosthodontics</i> 1 Hr	<i>Definition Of Prosthodontics Anatomy, physiology & histology of the stomatognathic sysytem</i>	<i>Aims & objectives,</i>	<i>scope of prosthodont ics</i>
		<i>Biomechanics of the edentulous state</i> 2 hr	<i>Mechanism OF TOOTH & COMPLETE DENTURE support</i>	<i>Mandibular movements & occlusion</i>	<i>Changes in TMJ</i>
		<i>Effect of loss of teeth</i> 1 Hr	<i>On general health</i>	<i>On masticatory apparatus</i>	<i>Need to replace lost teeth</i>
		<i>Tissue response to complete denture prosthesis in the aging edentulous patient</i> 1 Hr	<i>Soft tissue changes</i>	<i>Denture stomatitis</i>	
		<i>Effects of aging</i> 1 Hr	<i>Oral changes</i>	<i>Maxillomandibu lar relation</i>	<i>Dietary & Psychologi c changes</i>
		<i>Preparing the patient for complete denture prosthesis</i> 1 Hr			
		<i>Diagnosis and treatment planning for patient with some teeth remaining</i> 3 hrs	<i>Diagnostic procedures</i>	<i>Systemic evaluation Treatment plan</i>	<i>Temporoma ndibular joint disorders</i>
		<i>Diagnosis of patient with no teeth remaining</i> 2hrs	<i>General observations affecting diagnosis</i>	<i>Intra oral examination</i>	
		<i>Development of treatment plan Communicating with the patient</i> 1 Hr	<i>Nutrition in complete denture patients</i>		
		<i>Identification and</i>	<i>Patient behavior characteristics</i>	<i>When and how</i>	

		<i>management of the patient with problems</i> <i>1 Hr</i>		<i>to refer the patient to a specialist for treatment</i>	
		<i>Use of Consultation Report</i> <i>3 hrs</i>	<i>Contents of the Report</i> <i>Economics of prosthodontic service</i>	<i>Surgical & non surgical procedures</i>	
		<i>Rehabilitation of the Edentulous Patient</i> <i>2hrs</i>	<i>Biologic considerations for Maxillary Impressions</i>	<i>Microscopic anatomy</i>	
		<i>Selecting artificial teeth for edentulous patient</i> <i>3 hrs</i>	<i>Anterior & posterior tooth selection</i>	<i>Dentogenic concept</i>	
		<i>Mouth preparation</i> <i>1hr</i>	<i>General considerations</i>	<i>Pre-prosthetic surgery</i>	
<i>80hrs</i>	<i>IV BDS</i>	<i>1. Impression procedures</i> <i>3 hrs</i>	<i>Classification of Impressions</i>	<i>Aims and objectives theories of impression making</i>	<i>Techniques of impression making</i>
		<i>2. Biologic considerations in jaw relations and jaw movements</i> <i>2 hrs</i>	<i>Anatomic factors</i> <i>Temporomandibular Articulation</i>	<i>Classification of Jaw relations</i>	<i>Face bow</i>
		<i>3. Movements of mandible</i> <i>1 hr</i>	<i>practical significance</i>	<i>methods of studying mandibular movements axes of rotation</i>	<i>Its influence on tmj</i>
		<i>4. Biological considerations in vertical jaw relations</i> <i>2 hrs</i>	<i>Anatomy and Physiology of Vertical jaw Relations</i> <i>Establishment of the vertical maxillomandibular relations for complete denture prosthesis</i>	<i>Methods of determining the vertical dimension</i>	<i>Tests of vertical jaw relations with the occlusion rims</i>
		<i>5. Biological considerations in horizontal jaw</i>	<i>Centric relation</i>	<i>Recording centric relation</i>	<i>Methods of recording centric</i>

		relations 2 hrs			relation
		6. Perfection and verification of jaw relation records 1 hr	Verifying Vertical Dimension & the centric relation & occlusion	Facial And Functional Harmony With Anterior Teeth	concept of harmony with sex personality and age
		7. Completion of the try in : Eccentric Jaw relation adjustment, Protrusive and lateral relations 2 hrs	Arranging posterior teeth for functional harmony	Differences in artificial occlusion and natural occlusion Occlusal schemes used in complete dentures for the edentulous patients	Appearance and Functional Harmony of Denture Bases
		8. Occlusion 2 hrs	Balanced Occlusion	Various factors of balanced occlusion	
		9. Rehabilitation of the partially edentulous patients (overdentures) 2 hrs	tooth-supported complete dentures -indications and contraindications for over dentures	selection of abutment teeth	clinical procedures
		10. Immediate Denture Treatment 2 hrs	indication for immediate dentures -contraindications to immediate denture	delayed and transitional dentures	treatment planning clinical procedures
		11. Relining or Rebasing of Complete Dentures Repair Of Complete Dentures And Duplication Of Casts 2 Hrs	treatment rationale diagnosis clinical procedures Maxillary and mandibular fracture repair	duplication of casts	-functional impression technique -chair side technique

	<p><i>12. Osteo Integrated Supported Prosthesis (Dental Implants)</i></p> <p><i>Geriatric Dentistry</i></p> <p><i>1 hr</i></p>	<p><i>maladaptive denture behavior</i></p> <p><i>-use of dental implants</i></p>	<p><i>patient considerations</i></p> <p><i>-tissue integration in the edentulous patient</i></p>	<p><i>Management of aged, senior citizens, physically, mentally handicapped patients</i></p>
	<p><i>13. Removable partial denture prosthesis</i></p> <p><i>3 hrs</i></p>	<p><i>Introduction and scope</i></p> <p><i>Terminology</i></p> <p><i>Classifications</i></p>	<p><i>Examination, diagnosis and treatment planning</i></p>	<p><i>Components of removable partial dentures and their functions</i></p>
	<p><i>14. Major connectors</i></p> <p><i>3 hrs</i></p>	<p><i>Mandibular Major connectors</i></p> <p><i>Maxillary Major connectors</i></p>		
	<p><i>15. Minor connectors</i></p> <p><i>1 hr</i></p>	<p><i>Functions</i></p> <p><i>Form and location</i></p> <p><i>Tissue stops</i></p> <p><i>Finishing lines.</i></p> <p><i>Reaction of tissues to metallic coverage</i></p> <p><i>Form of occlusal rests and rest seats</i></p>		
	<p><i>16. Rests and rest seats</i></p> <p><i>1 hr</i></p>	<p><i>Types</i></p>	<p><i>Possible movements of partial denture</i></p> <p><i>Support for rests</i></p>	
	<p><i>17. Direct retainers</i></p> <p><i>3 hrs</i></p>	<p><i>Internal attachments</i></p> <p><i>Extra coronal direct retainers</i></p>	<p><i>Criteria for selecting a given clasp design</i></p> <p><i>Basic principles of clasp design</i></p> <p><i>Designs of clasps</i></p>	
	<p><i>18. Indirect</i></p>	<p><i>Denture rotation about an</i></p>	<p><i>Forms of indirect</i></p>	<p><i>Denture base</i></p>

<i>retainers</i> <i>2 hrs</i>	<i>axis</i> <i>Factors influencing effectiveness of indirect retainers</i>	<i>retainers</i>	<i>considerations</i> <i>Tooth supported partial denture base</i>
<i>19. Distal extension partial denture base</i> <i>1 hr</i>	<i>Functions of denture bases</i> <i>Methods of attaching denture bases</i>	<i>Ideal denture base material</i> <i>Advantages of metal bases</i> <i>Methods of attaching artificial teeth</i>	<i>Need for relining</i>
<i>20. Stress breakers</i> <i>1 hr</i>	<i>Types of stress breakers</i> <i>Advantages of stress breakers</i> <i>Disadvantages of stress breakers</i>	<i>Stress breaking principles</i> <i>Principles of removable partial denture design</i>	<i>Differentiation between two main types of removable partial dentures</i>
<i>21. Surveying</i> <i>3 hrs</i>	<i>Description of a dental surveyor</i> <i>Purposes of a surveyor</i>	<i>Step by step procedures in surveying a diagnostic cast</i>	<i>Blocking out the master cast</i> <i>Mouth preparation</i>
<i>22. Impression materials and procedures for removable partial dentures</i> <i>3 hrs</i>	<i>Rigid materials</i> <i>thermoplastic materials</i> <i>elastic materials</i> <i>impressions of the partially edentulous arch</i> <i>individual impression trays</i>	<i>support for distal extension removable partial dentures</i> <i>-factors influencing the support of distal extension bases</i>	<i>method for obtaining functional support for distal extension base</i>

<p>23. Occlusal relationship for removable partial denture</p> <p>3 hrs</p>	<p><i>difference in natural and artificial occlusion</i></p> <p><i>materials for artificial posterior teeth</i></p>	<p><i>labatory procedures</i></p> <p><i>duplicating a stone cast</i></p> <p><i>waxing the partial denture framework</i></p>	<p><i>remounting and occlusal corrections to an occlusal template</i></p> <p><i>polishing the denture</i></p>
<p>24. Repair and additions to removable partial denture</p> <p>1 hr</p>	<p>Broken clasp arms</p> <p>Fractured occlusal rests</p> <p>Distortion or breakage of other components</p> <p>Loss of teeth not involved in the support or retention of the restoration</p> <p>Loss of an abutment tooth necessitating its replacement and making a new direct retainer</p>		<p><i>Repair by soldering</i></p>
<p>25. Temporary removable partial denture</p> <p>1 hr</p>	<p>Appearance</p> <p>Space maintenance</p> <p>Reestablishing occlusal relationships</p> <p>Conditioning teeth and residual ridge</p> <p><i>Conditioning the patient for wearing a prosthesis</i></p>		
<p>26. Removable partial denture considerations in maxillofacial prosthodontics</p> <p>1 hr</p>	<p>Maxillofacial Prosthodontics</p> <p>Intraoral prosthesis design considerations</p>	<p>Intraoral prosthesis design considerations</p> <p>Maxillary prosthesis</p> <p>Mandibular</p>	<p>Class I resections</p> <p>Class II resections</p> <p>Mandibular flange prosthesis</p>

		prosthesis <i>Treatment planning</i>	
27. <i>Fixed prosthodontics (crown and bridge prosthesis)</i> <i>2 hrs</i>	<i>Introduction and definitions.</i> <i>Terminologies</i>	<i>Indication and contraindications</i>	
28. <i>Examination, diagnosis and treatment planning and radiological interpretations.</i> <i>1 hrs</i>	<i>Radiological interpretations</i>		
29. <i>Selection and choice of abutment teeth</i> <i>1 hr</i>			
30. <i>Biomechanical principles of tooth preparation</i> <i>3 hrs</i>	<i>Preservation of tooth structure</i> <i>Retention and resistance form</i> <i>Structural durability of the restoration</i> <i>Marginal integrity</i> <i>Preservation of the periodontium</i> <i>Finish lines and the periodontium</i>	<i>Occlusal bevels</i> <i>Flares</i>	<i>Armamentarium</i> <i>Instrumentation</i>
31. <i>Full veneer crowns</i> <i>3 hrs</i>		<i>Maxillary and mandibular posterior three quarter crowns</i> <i>Anterior three quarter crown</i> <i>Pin modified three quarter crowns</i> <i>Seven eighths</i>	

		<i>crown Proximal half crowns Inlay MOD onlay</i>	
<i>32. Anterior/ posterior porcelain fused to metal crowns All ceramic crowns 3 hrs</i>	<i>Preparation modifications for damaged teeth Modifications for damaged vital teeth Conversion of defects into retentive features</i>	<i>Solution to common problems</i>	
<i>33. Endodontically treated tooth 3 hrs</i>	<i>Preparation modifications for special situations Preparation for fixed bridge abutment Preparation for removable partial denture abutments</i>		
<i>34. Isolation of working field and temporary protections of prepared tooth Gingival retractions and impression procedures 3 hrs</i>	<i>Construction of DIES of working models, direct and indirect technique.</i>		<i>Techniques of fabrication of retainers and materials used, its application with reference of Fabrication & esthetics.</i>
<i>35. Selection and fabrication of pontics and esthetics. 2 hrs</i>	<i>Pontic design Connectors, stress - breakers and assembly of fixed bridges.</i>		<i>Finishing, cementing and maintenanc e of crowns and bridges</i>
<i>36. Implants 3 hrs</i>	<i>Osseo integrated - Supported prosthesis. Introduction and scope advantages and disadvantages.</i>	<i>Evaluation pre- osseointegratio n and preparation treatment plan, applied surgical</i>	<i>Examinatio n, diagnosis and treatment planning and other clinical and</i>

	<p><i>Classification</i></p> <p><i>Applied material science, patient</i></p>	<p><i>procedures.</i></p> <p><i>Osseointegrated supporting prosthesis occlusion, esthetics, insertion and maintenance.</i></p>	<p><i>Laboratory procedures</i></p>
<p><i>37. Maxillofacial prosthesis</i></p> <p><i>3 hrs</i></p>	<p><i>Restoration of congenital and acquired oral and para-oral defects. (facial prostheses, including osseointegrated support facial prosthesis).</i></p>	<p><i>Splints</i></p> <p><i>Obturators</i></p> <p><i>Carriers</i></p> <p><i>Bruxism and management of occlusal attrition</i></p>	
<p><i>38. Miscellaneous</i></p> <p><i>2 hrs</i></p>	<p><i>Ethics, law,</i></p>	<p><i>Patient and practice management in prosthodontic clinic</i></p> <p><i>jurisprudence an forensic odontology - in prosthodontic practice</i></p> <p><i>Assistants - laboratories and clinic</i></p> <p><i>Communication methods - technician work</i></p> <p><i>Authorization, methods and legality</i></p>	

<p>39. Emergencies in prosthodontics</p> <p>2 hrs</p>	<p><i>During impression recording in partial, complete edentulous situation and maxillofacial defects.</i></p> <p><i>Precautions and management of traumatic accidents in tooth preparation use of constrictor in anaesthetic solutions and retraction cords.</i></p> <p><i>Ill fitting dentures broken clasps, facings</i></p> <p><i>Broken prosthesis</i></p> <p><i>Swallowing prosthesis</i></p> <p><i>General management of elderly and c.v.s. and immuno compromised patients.</i></p>		
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NON-DIDACTIC

<i>STRATEGY</i>						
<i>YEAR</i>	<i>PRACTICAL</i>	<i>CLINICAL</i>	<i>DEMONSTRATION</i>	<i>TUTORIAL</i>	<i>SEMINAR</i>	<i>INTEGRATED TEACHING</i>
<i>TOPICS</i>						
<i>III BDS</i>	<p><i>Journal write up on topics</i></p> <p><i>Case history</i></p> <p><i>Treatment planning</i></p> <p><i>Preclinical work</i></p> <p><i>Rpd designing</i></p>	<p><u><i>Complete denture:</i></u></p> <p><i>Case history taking on patient-02</i></p> <p><i>Complete denture patient: 02</i></p>	<p><u><i>Complete denture steps:</i></u></p> <p><i>1. Primary impression</i></p> <p><i>2. Final Impression</i></p> <p><i>3. Jaw relation</i></p>	<p><i>Infection control</i></p> <p><i>Case history taking</i></p> <p><i>Pouring & mounting dentulous cast</i></p>		<i>Library utilization</i>

		<u>Removable Partial denture:</u> Case history taking on patient-02 RPD: 02-03 patients	4. Try-in 5. Denture insertion <u>Removable partial Denture:</u> 1. Alginate impression <u>Fixed partial denture:</u> tooth preparation on patient	on articulator		
IV BDS	1) Journal write up on topics Case history Treatment planning Preclinical work Tooth Preparation on model – 10 RPD – Surveying of cast	Case history taking on patient-03 Complete denture patient: 02 <u>Removable Partial denture:</u> Case history taking on patient-02 RPD: 02-03 patients		Discussion on case history Relining & rebasing Repair of denture	Seminar write up submission	Library utilization