

## PRE-CLINICAL PROSTHODONTICS LOGBOOK

STUDENT NAME:	

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### **LEARNING OUTCOMES:**

By the end of the preclinical Prosthodontics course, students will be able to:

- 1. Explain the importance of Prosthodontics in dental practice.
- 2. Identify the armamentarium used in Prosthodontics ward.
- 3. Complete the step-by-step fabrication of complete dentures on models, demonstrating proficiency in all related tasks.
- 4. Understand the standard operating procedures in the prosthodontics ward.
- 5. Demonstrate punctuality, appropriate dress code, and professional behavior in all ward activities
- 6. Engage in effective communication with peers, faculty, and staff.
- 7. Evaluate personal performance and progress through reflective practice and feedback.

### Standard Operating Procedures (SOPs) for Prosthodontics <u>Ward</u>

### **For Preclinical Prosthodontics - Second Year BDS Students**

### 1. General Conduct

- Punctuality: Students must arrive on time for all sessions.
- Dress Code: Wear appropriate clinical attire, including lab coats and name tags.
- Hygiene: Maintain high standards of personal and workspace hygiene.
- Attendance: Attendance is mandatory for all sessions.
- Behavior: Display professional and respectful behavior towards peers, faculty, and patients.

### 2. Safety and Infection Control

- Hand Hygiene: Perform hand hygiene before and after each procedure.
- **Personal Protective Equipment (PPE)**: Use gloves, masks, and eye protection as required.
- **Disinfection**: Ensure all instruments and surfaces are properly disinfected before and after use.
- **Waste Disposal**: Dispose of clinical waste in designated bins according to biohazard protocols.

### 3. Preclinical Activities

- **Preparation**: Ensure all materials and instruments are ready before the session.
- **Documentation**: Maintain accurate and complete records of all procedures in the logbook.
- **Supervision**: Work under the supervision of faculty or trained technicians at all times.

### 4. Use of Facilities

- **Practice**: Utilize models and simulators for practice as per the schedule.
- **Equipment**: Handle all equipment with care and return it to its designated place after use.
- **Laboratory Usage**: Use laboratory space responsibly and ensure it is clean before leaving.
- **Break Times**: Follow the schedule for breaks and ensure timely return to sessions.

### 5. Communication

 Queries and Concerns: Address any queries or concerns to the designated faculty member.

### **Junior Prosthodontics**

Define Prosthodontics:
Define Preclinical Prosthodontics:
Define branches of Prosthodontics:
refine branches of Prosthodontics.

Teacher's Sign:

### **ARMAMENTARIUM:**

- 1. Diagnostic instruments
  - Mouth mirror
  - Probe
  - Tweezer
  - Explorer
- 2. Impression trays:
  - Stock trays( dentate and edentulous)
  - Perforated trays
- 3. Fabrication tools
  - Bowl & Spatula
  - Mixing slab
  - Pliers---- Round, Flat, Adam's plier
  - Wire cutter
  - Glass bowl for Acrylic mixing
  - Wax knife
  - Plaster knife
  - Wax carver
  - Dental flask
  - Ruler/Scale(Flexible)
  - Spirit lamp/ torch
  - Measuring scoops
  - Magnifying glass
- 4. Cutting/Trimming Instruments:
  - Dental lathes
  - Bench grinders
  - Acrylic trimmers
  - Carborundum discs
  - Finishing burs
  - Trimming knives
  - Acrylic burs(Flame, barrel, round, fissure)
  - Carbide burs
  - Diamond burs

- Model trimmer
- Scalpel blades
- 5. Miscellaneous:
- articulators
- facebow

COMPLETE DENTURE:	
<u>Define Complete Denture:</u>	
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	D
Surfaces and parts of Complete Denture:	
Fabrication steps Of Complete Denture:	
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# IMPRESSIONS IN COMPLETE DENTURE: **Define Dental impression: Principles of Impression Making: Classify Dental Trays:**

Define Pi	imary Impres	sion:		
<u> Material</u>	s used for Prin	nary Impres	ssion:	
Define Se	econdary (fina	l) Impressio	<u>on</u> :	
Materials	s used for Seco	ondary Imp	ression:	

CASTS IN COMPLE	TE DENTUR	<u>ES</u> :		
DEFINITION:				
PARTS:				
TYPES:				

<b>Denture Bearing Areas</b>
Define
Define:
Maxillary denture bearing areas:
A.Limiting structures:
1.Labial frenum:
1.Labiai irenum:
2.Labial vestibule:

3.Buccal freni				
4. Buccal vestibule	l:			
5. Hamular notch				
6.Post-dam area ,	posterior pa	latal seal:		
B.Supporting st	ructures:			
A. Primary str	ess bearing a	rea:		

a.Hard			
	palate:		
b.Poste	ro-lateral slopes of residual ridg	ge:	
c. Maxi	lary tuberosity:		
<b>D</b> (	ocondary stross boaring ar	221	
	econdary stress bearing are	ca.	
в. 3			
в. 3			
	:		
a.Rugae	::		

b. Alveolar ridges:			
b. Alveolal Huges.			
C. RELIEF AREAS:			
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to sistem as willer			
Incisive papilla:			
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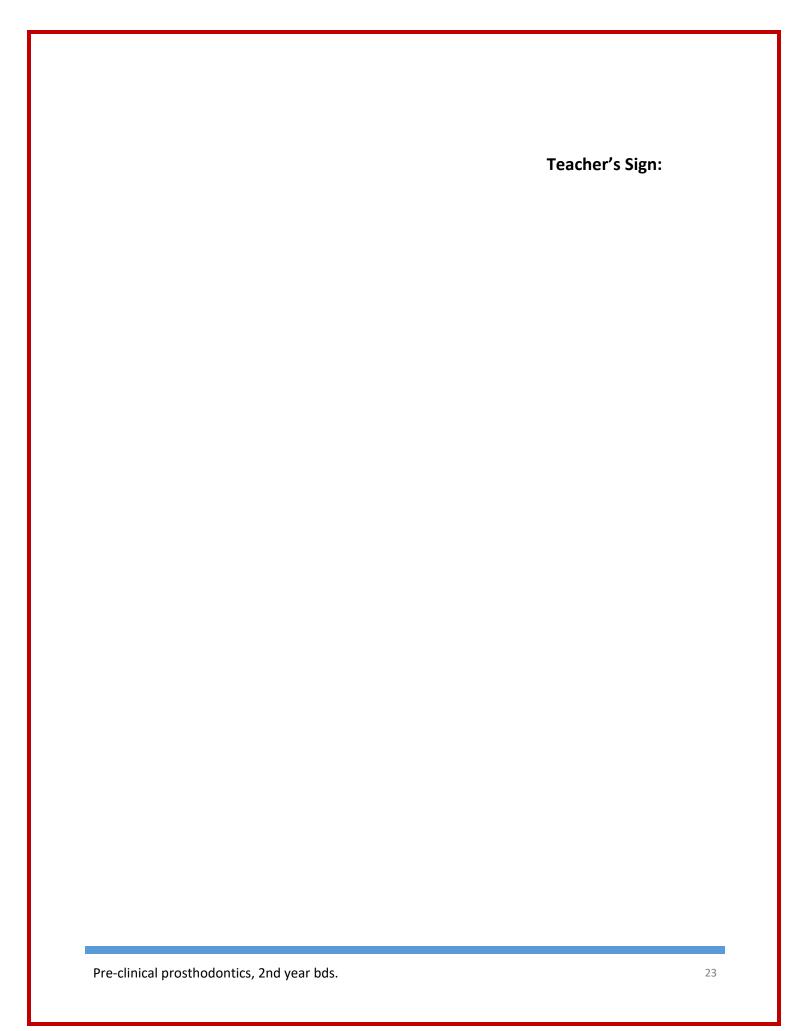
Mid-palatine raphe:	
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Fovea palatina:	
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Draw and label maxillary denture bearing areas	
	Teacher's sign
MANDIBULAR DENTURE BEARING AREAS:	
A. <u>Limiting structures:</u>	

1. Labial frenum:		
2. Labial vestibule		
3. Buccal frenum		
4. Buccal vestibule:		

	5. Lingual frenum:
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	6. Alveolo-lingual sulcus:
_	
	7. Retromolar pads:
_	
	8. Pterygo-mandibular raphae:

. <u>Primary S</u>	upporting	<u>structure</u>	<u>S:</u>	
1. Buccal sh	elf area:			
2. Retromol	ar Pad			

Genial tub	oreloc:				
Gernar tub	ercies.				
Torus man	dibularis:				
Draw an	d label mand	ihular dentu	re hearing a	reas	



### FABRICATION OF CUSTOM TRAY

1.Maxillary:		
2.Mandibular:		

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			Teacher's sign:
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### **Fabrication of Custom Tray**

Date	Work done	Remarks	Teachers Sign
	Acrylic mixing		
	Acrylic manipulation		
	<b>Custom tray Extension</b>		
	Thickness		
	Frenal Relief		
	Finishing		
	Tray Handles		

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### Wax pattern for denture base plates

1. Maxillary:		
2. Mandibular:		


Teacher's sign

### **FABRICATION OF DENTURE BASES**

### **MAXILLARY**

Date	Work done	Remarks	Teacher's sign
	Wax pattern		
	Flasking		
	Dewaxing		
	Use of separating media		
	Packing		
	Curing		
	Deflasking		
	Finishing		

**MANDIBULAR** 

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Date	Work done	Remarks	Teacher's sign
	Wax pattern		
	Flasking		
	Dewaxing		
	Use of separating media		
	Packing		
	Curing		
	Deflasking		
	Finishing		

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# **FABRICATION OF OCCLUSAL RIMS: Define Occlusal Rims: Materials Used: Rolled wax technique: Step- by- Step:**

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### MAXILLARY OCCLUSAL RIMS

Date	Area of adjustment	Ideal height	Adjusted height	Remarks	Teacher's sign
	From border of flange - canine eminence region	22mm			
	From crest of alveolar ridge - anterior region	10-12 mm			
	From border of flange - posterior region	18mm			
	From crest of alveolar ridge - posterior region	5- 7mm			
		Ideal width	Adjusted width		
	Anterior teeth region	4- 6mm			
	Premolar area	6- 8mm			
	Molar area	8- 12mm			
	Distance from incisive papilla	8mm			

### MANDIBULAROCCLUSAL RIMS

Date	Area of adjustment	Ideal height	Adjusted height	Remarks	Teacher's sign
	From border of flange - canine eminence region	18mm			
	From crest of alveolar ridge - anterior region	6-8mm			
	Flush with retro molar pad -posterior region	2/3 of its height			
	From crest of alveolar ridge - posterior region	3-6mm			
		Ideal Width	Adjusted width		
	Anterior teeth region	4-6mm			
	Premolar area	6-8mm			
	Molar area	8- 12mm			

### **MAXILLO-MANDIBULAR RELATIONS**

Define Maxillo-Mandibular relationship:			
Define orientation jaw relation:			
-			
Define vertical jaw relation:			

		Teacher's	Sign:

### **ARTICULATORS & ARTICULATION**

Define Articulation:
Define an articulator:
<del></del>
Uses of Articulators:
Classify articulators on basis of adjustability:

### **MOUNTING HINGE ARTICULATOR**

Date	Work done	Remarks	Teacher's sign
	Sealing of occlusal rims		
	Mounting of cast with occlusal rims		
	finishing		

Teacher's sign:

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# TOOTH SET-UP

Define		

### **GUIDE TO TOOTH SET-UP:**

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TEETH	FACIAL VIEW	PROXIMAL VIEW	OCCLUSAL PLANE RELATION
MAX. CENTRAL INCISOR	Long axis slightly mesially inclined	Labially inclined by 15°	Incisal edge contacts horizontal plane
MAX. LATERAL INCISOR	Slopes more mesially compared to centrals	Labially inclined by 20°	Incisal edge 1-2mm short of occlusal plane
MAX. CANINE	Long axis VERTICAL or slightly mesially inclined.  Mesial surface more visible than distal surface	Long axis VERTICAL	Canine tip in contact with occlusal plane
MAND.CENTRAL INCISOR	Long axis leans towards mesial	Labially inclined	Incisal edge 2mm above occlusal plane
MAND.LATERAL INCISOR	Long axis slopes mesially	Labial inclination less pronounced compared to centrals	Incisal edge 2mm above occlusal plane

MAND. CANINE	Long axis straight or slightly mesially inclined	Long axis straight or leans very slightly to lingual	Incisal edge at a slightly higher plane than laterals
MAX.1 <sup>ST</sup> PREMOLAR	Long axis straight or slightly mesially inclined	Long axis straight or leans very slightly to lingual	Buccal cusp in contact with occlusal plane Palatal cusp 1mm shorter
MAX 2 <sup>ND</sup> PREMOLAR	Long axis vertical	Long axis straight or leans very slightly to lingual	Both cusps touch occlusal plane
MAX 1 <sup>ST</sup> MOLAR	Long axis inclined distally	Buccal inclination	Only mesiopalatal cusp in contact with occlusal plane
MAX 2 <sup>ND</sup> MOLAR	More distal inclination	Buccal inclination	None of cusps contact occlusal plane but mesiopalatal is still nearest to it
MAND.1 <sup>ST</sup> PREMOLAR	Long axis vertical	Long axis vertical	Buccal cusp is above occlusal plane and lingual cusp below occlusal plane
MAND.2 <sup>ND</sup> PREMOLAR	Long axis vertical	Long axis vertical	Both cusps 2mm above occlusal plane
MAND.1 <sup>ST</sup> MOLAR	Long axis mesially inclined	Long axis lingually inclined	DB cusp above occlusal plane, buccal cusps higher than lingual cusps, distal cusps higher than mesials.
MAND.2 <sup>ND</sup> MOLAR	More pronounced mesial inclination	More pronounced lingual inclination	All cusps higher than first molars.

Pre-clinical prosthodontics, 2nd year bds.

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XILLARY CEI	NTRAL INCISORS:	
XII I ARV I AT	TERAL INCISORS:	
AILEAINI EA	<u>ENAL INCISONS.</u>	

MAXILLA	RY FIRST PRE	MOLAR:		

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1AXILLAR	Y FIRST MO	DLAR		

MANDIB	JLAR CENTR	AL INCISOR	<u>'S</u> :	
MANDIB	JLAR CENTR	RAL INCISOR	<u>s</u> :	
MANDIB	JLAR CENTR	RAL INCISOR	<u>s</u> :	
MANDIB	JLAR CENTR	AL INCISOR	<u>s</u> :	
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MANDIB	JLAR CENTR	RAL INCISOR	<u>s</u> :	
MANDIB	JLAR CENTR	AL INCISOR	<u>s</u> :	

	TERAL INCISORS	<u> </u>	
ANDIBULAR CA	NINES:		

MANDIBE	ILAR FIRST P	PREMOLAR:		
MANDIBL	ILAR SECON	D PREMOLAR	<u>₹</u> :	

IANDIBULAR	R FIRST MOLAR:		
<u>IANDIBULAR</u>	R SECOND MOLA	<u>R:</u>	

## **GUIDE LINES FOR TEETH SETUP**

### **Key of occlusion**

1. Canine key of occlusion:
2. Molar key of occlusion:
3. Aligned occlusal groove concept

5. <u>Overjet</u>		
<u> </u>		
6. <u>Overbite</u>		

#### **COMPENSATING CURVES**

1. Curve of spee:			
2. Wilson's curve:			
3. Monson's curve:			

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Define:			

Date	Steps done in wax up	Remarks	Teacher's sign
	Pooling		
	Cooling		
	Festooning		
	Contouring		
	Stippling		

#### **LABORATORY PROCESSING:**

Date	Work done	Remarks	Teacher's sign
	Flasking		
	Dewaxing		
	Use of separating media		
	Packing		
	Curing		
	Deflasking		

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**FINAL FINISHING AND POLISHING** 

Date	Work done	Remarks	Teacher's sign
	Trimming / finishing		
	Sand paper finishing		
	Pumice wash		

## **ASSESSMENT CHART**

Date	Presentation topic	Remarks	Teacher's sign

Date	Assignment topic	Remarks	Teacher's sign
			,

Date	Dentures submitted	Remarks	Teacher's sign
	Maxillary		
	Mandibular		