

Prosthodontics

Theoretical: Studying the laboratory and clinical part of the steps of making mobile partial prostheses for patients who have lost part of their teeth.

Practical: It is done in the educational dental industry clinic and you learn to deal with the patient and the treatment steps to complete the prosthetic pieces.

Different Learning Methods in the Department of Dentistry

A- Auditory method: This method depends on communicating information in the form of sounds that are heard by the learner for analysis and storage.

B- Visual method: in which information is communicated by displaying color images, videos or any form of visual educational aids.

C- Reading method: It is one of the methods that depend on reading information to understand and store it.

D. Interdisciplinary professional education where dental students collaborate with other healthcare professionals, to promote a holistic approach to patient care.

Different evaluation methods for students in the Department of Dentistry

Daily tests with multiple-choice questions for subjects that require practical skills.

B- Daily exams with practical questions.

C- Semester and final exams.

D- Setting grades for the assigned homework .

H- Grades of participation of questions competing for the subjects of study.

G- Daily evaluation of the student's work in scientific laboratories and educational clinics.

Learning Outcomes for Dental Courses

Using health information technology in oral and dental health care effectively.

Apply appropriate professional, ethical and legal standards in the provision of patient care in accordance with health care rules and regulations.

Providing graduates with scientific knowledge and professional skills in the fields of oral and dental surgery, dental prosthesis, dental preservation, orthodontics, pediatric dentistry, periodontal pathology and surrounding tissues, as well as radiology

Knowledge of the principles of oral and dental health and understanding of the development, prevention and treatment of related diseases

Health promotion and disease prevention to serve the community .

Integrating basic and medical sciences into healthcare practice.

Develop decision-making and problem-solving skills in healthcare.

Evaluate the state of oral and dental health and the medical condition of the patient, request the necessary diagnostic analyzes, and interpret the results of various analyzes to reach the appropriate diagnosis.

Prepare a care plan for the prevention and treatment of diseases taking into account the needs of the patient.

Demonstrate competence in performing procedures safely in all aspects of dentistry and prevent injuries arising from treatment.

Providing graduates with theoretical knowledge and laboratory and clinical skills that increase the effectiveness of diagnosis.

Preparing dental graduates and training them to become distinguished in various fields of dentistry.

Lesson name and units

<i>Subject</i>	<i>1st Semester hours/week</i>		<i>2nd Semester hours/week</i>		<i>Units</i>	<i>Code</i>
	<i>Theory</i>	<i>Practical</i>	<i>Theory</i>	<i>Practical</i>		
8. Prosthodontics	1	6	1	6	8	PD435

A- Basic information

1-Subject title	Prosthodontics	
2-Number of credits	Theory:2	Clinical:3
3-Number of contact hours	Theory:1h/ wk.	Clinic: 3 h/ wk.
4-Subject time	Fourth Year	

No.	Title Of The Lectures		Hours
1	Anatomy and physiology as related to dental prosthesis	<ul style="list-style-type: none">• Osteology importance• Factors that influence the form and	1

	(osteology)	<p>size of the supporting structures</p> <ul style="list-style-type: none"> • Supporting structures in the maxillary edentulous foundation • The limiting structures of the upper denture • Osseous structures associated with the mandibular denture • Maxillary and mandibular stress-bearing areas • Areas requiring relief in impression • The pattern of bone resorption 	
2	Anatomy and physiology as related to dental prosthesis (Myology)	<ul style="list-style-type: none"> • Muscles of facial expression • Functions of muscles of facial expression • Muscles of mastication • Muscles of the soft palate • Tongue • Muscle physiology • Oral mucous membrane • Salivary gland and saliva <ul style="list-style-type: none"> ✓ Physiologic factors affect salivation ✓ Function of saliva 	1
3	Diagnosis and treatment plan for RPD	<ul style="list-style-type: none"> • Patient interview • The objectives of prosthodontic treatment • Oral examination • Sequences of oral examination 	1
4	To be continued Diagnosis and treatment	<ul style="list-style-type: none"> • Interpretation of Examination Data • Root morphology • Periodontal considerations • Needs for extraction • Indication of RPD • The Recommended Infection Control Practices for Dental Treatment 	1
5	Preparation of the mouth to receive an RPD	<ul style="list-style-type: none"> • Pre-prosthetic procedures <ul style="list-style-type: none"> ✓ Oral surgical preparation ✓ Exostosis and tori ✓ Hyperplastic tissue ✓ Bony spine and knife edge ridge ✓ Augmentation of alveolar bone 	1
6	Preparation of the mouth to receive an RPD (Continued).	<ul style="list-style-type: none"> ✓ Maximum benefit from using tissue conditioning material ✓ Periodontal preparation ✓ Abutment teeth preparation ✓ The sequences of abutment tooth preparation on sound enamel or existing restoration are as follow ✓ The procedure of rest seat preparation on sounds enamel surface 	1
7	Classification of impression technique	<ul style="list-style-type: none"> • Impression material <ul style="list-style-type: none"> ✓ Differences between reversible and irreversible hydrocolloid ✓ Important Precautions to Be Observed in the Handling of 	1

		<p>Hydrocolloid Impressions.</p> <ul style="list-style-type: none"> • Steps in impression making <ul style="list-style-type: none"> ✓ The step-by-step procedure and important points to observe in the making of a hydrocolloid impression 	
8	Classification of impression technique (To be continue)	<ul style="list-style-type: none"> ✓ Step-by-Step Procedure for Making a Stone Cast from a Hydrocolloid Impression • Possible Causes of an Inaccurate and/or a Weak Cast of a Dental Arch • Technique used for individual impression trays • McLean's physiologic impression • The Recommended Infection Control Practices for Dental Treatment 	1
9	Designing Support	<ul style="list-style-type: none"> • The main problems which might occur in tooth-tissue support • Factors influencing the support of a distal extension denture base • Anatomic form impression • Methods for obtaining functional support for the distal extension base 	1
10	Fitting the removable partial denture framework	<ul style="list-style-type: none"> • Initial inspection • Methods and procedures for fitting the framework • Laboratory inspection • Clinical procedures • Occlusal evaluation • Clinical procedures after fitting the framework 	1
11	Occlusal Relationship for Removable Partial Denture	<ul style="list-style-type: none"> • The establishment of satisfactory occlusion for RPD • Desirable occlusal contact relationships for various RPD • Occlusion in RPD's (Requirements) 	1
12	Jaw relation in RPD	<ul style="list-style-type: none"> • Methods for establishing occlusal relationship • Interocclusal records • Excellent occlusal recording materials 	1
13	Trial RPD	<ul style="list-style-type: none"> • The trial dentures on the mounted casts • The trial dentures in patient s mouth • Esthetic try-in • Denture base consideration • The patient evaluation • Phonetics evaluation • Verification of Jaw Relation • Choice of tooth materials 	1
14	Initial placement and adjustment of RPD	<ul style="list-style-type: none"> • Final inspection of the prosthesis before insertion • Verifying the removable partial denture (RPD) framework fit • Assessment of acrylic resin denture 	1

		<ul style="list-style-type: none"> base adaptation • Assessment of peripheral extension of the denture base • Evaluating occlusion • Adjusting retentive clasp assembly, if needed • Providing instructions for the patient in the use and care of the prosthesis 	
15	Pre- prosthetic surgery	<ul style="list-style-type: none"> • Surgical Guides (Templates) • Commonly Used Pre-prosthetic Procedures • Ridge Alveoloplasty with Extraction • Intra-septal Alveoloplasty • Edentulous Ridge Alveoloplasty • Buccal Exostosis • Maxillary Tuberosity Reductions <ul style="list-style-type: none"> ✓ Mandibular Tori ✓ Maxillary Tori ✓ Mylohyoid Ridge Reduction ✓ Genial Tubercle Reduction 	1
16	Pre-prosthetic Surgical Considerations (Continued).	<ul style="list-style-type: none"> • Soft Tissue Procedures <ul style="list-style-type: none"> ✓ Maxillary Soft Tissue Tuberosity Reduction ✓ Maxillary Labial Frenectomy ✓ Excision of Redundant/Hyper mobile Tissue Overlying the Tuberosities ✓ Excision of inflammatory Fibrous Hyperplasia (Epulis Fissuratum) ✓ Inflammatory Papillary Hyperplasia of the Palate 	1
17	Diagnosis and treatment plan CD	<ul style="list-style-type: none"> • Mental Attitude (Psychological factor) <ul style="list-style-type: none"> ✓ House classification ✓ Social information. ✓ Systemic (medical) status 	1
18	To be continued diagnosis and treatment plan for CD	<ul style="list-style-type: none"> • Past dental history <ul style="list-style-type: none"> ✓ Local factors ✓ Intraoral examination (mucosa, ridge, hard palate, soft palate, tongue and post mylohyoid space) ✓ Radiographic examination ✓ Diagnostic cast-advantages • Treatment planning • Prognosis • Patient education 	1
19	Impression in CD	<ul style="list-style-type: none"> • Definition • Objective of complete denture impression • Biologic considerations for mandibular impressions • Theories of impression techniques • Primary impression • Common errors in impression makings • Secondary (final) impression <ul style="list-style-type: none"> ✓ Materials used for final impression ✓ Steps for making final impression 	1

		<ul style="list-style-type: none"> ✓ Correction of special tray ✓ Making the final impression ✓ Making final impression utilizing digital intraoral scanner 	
20	TMJ and mandibular movement.	<ul style="list-style-type: none"> • Anatomy of TMJ • How does the TMJ move during function? • The muscles and ligaments of TMJ • Mandibular axis • Mandibular movement. (Basic and functional movement) • Border movement (sagittal, horizontal and coronal) • Jaw registration of condylar movements • Articulator's classifications • Face-bow transfer 	1
21	Digital RPD	<ul style="list-style-type: none"> • Digital partial dentures and rapid prototyping procedure • Difference between conventional and digital RPD Procedure • Advantages highlight the benefits of the digital over the conventional method 	1
22	Vertical jaw relation	<ul style="list-style-type: none"> • Definition • Importance of Vertical Jaw Relation • Factors Affecting Vertical Jaw Relation • Effects of increased vertical relation • Effects of decreased vertical relation • Vertical Dimension at Rest • Facial measurements after swallowing and relaxing • Vertical Dimension at Occlusion • Methods of Measuring <ul style="list-style-type: none"> ✓ Mechanical methods ✓ Physiological methods 	1
23	Horizontal jaw relation (Centric occlusion)	<ul style="list-style-type: none"> • Centric relation ✓ Methods must be used to position the jaw in centric relation 	1
24	Try in stage in CD	<ul style="list-style-type: none"> • Definition • Importance of trial denture • Objective of trial denture • Extra oral examination of trial denture • Trial denture assessment in the mouth • Incorporation of posterior palatal seal • Patient role in trial denture • Technician role in trial denture 	1
25	Insertion of CD	<ul style="list-style-type: none"> • Complete denture insertion procedure • Denture base adjustment • Adjustment of denture border • Dentist evaluation 	1

		<ul style="list-style-type: none"> • Patient evaluation • Friend's evaluation 	
26	Adjustments of CD	<ul style="list-style-type: none"> • Errors in occlusion • Intra oral occlusal correction • Extra oral selective grinding (centric and eccentric correction) • Appearance with new denture • Mastication with new denture • Speaking with new denture • Oral hygiene with dentures 	1
27	Post insertion complications in CD	<ul style="list-style-type: none"> • Freeway space problem • Pain in the sulcus • Pain on crest of the alveolar ridge • Looseness of one or both dentures • Speech problems • Chewing problems 	1
28	relining and rebasing of CD	<ul style="list-style-type: none"> • Factors influencing the decision to reline an existing denture • Impression Technique for relining and rebasing 	1
29	Repair of fractured RPD	<ul style="list-style-type: none"> • Repair of fractured denture teeth • Complex fracture repairs 	1
30	Esthetic denture materials	<ul style="list-style-type: none"> • Denture base material • Clasp material • Types of clasps 	1
Total			30

Clinical requirements

Lab number	Study unit title
1	acrylic RPD (free end extension).
2	acrylic RPD (bounded saddles).
3	immediate or flexible RPD.
4	case repair.
Total	90 h/ year