



**University of Jordan
Faculty of Dentistry
Dept. of Prosthetic Dentistry
Fourth Year
Removable Prosthodontics Didactic 2**

Course Title: Removable Prosthodontics Didactic (2)

Course Code: 1304445

Prerequisite: Removable Prosthodontics Didactic (1)

Lecture Time: Sunday 1:30 - 2:30 PM

Lecture Venue: Medical Lecture Hall Compound,
Lecture Hall 8

If the lecture day is a Holiday; the lecture will be automatically transferred to the next week.

Course Description:

This is a theoretical based Prosthodontics course where students are theoretically trained on the various steps and aspects involved in the construction of complete dentures and removable partial dentures. Theoretical background is given in the form of 1hour lecture once a week.

The course is given in form of theory based slide shows and lectures to ensure that the students understand each practical step of removable dentures.

This course introduces the students to the conventional techniques used in the construction of removable prosthesis. Knowledge attained to complete this level brings the student to a point of competency in complete and partial dentures.

Objectives and Goals:

- ❖ This course is designed to develop skills and provide information for utilizing removable prosthodontics (conventional complete and partial dentures) for the management of completely/partially edentulous patients. It also provides the students with knowledge of the principles and practice of complete dentures, partial dentures, treatment planning, pre-prosthetic surgery, and dental technology in relation to prosthetic dentistry.
- 1. Provide the students with basic, current, evidence based and updated information and sufficient theoretical background to assist them in managing completely/partially edentulous patients using removable complete or partial dentures. This is in the form of lectures from history taking and examination to the recall and assessment stage.
- 2. Prepare the students for the clinics to be familiar with all clinical and laboratory steps in complete denture and Transitional/Definitive removable partial denture construction and how to manage edentulous patients
- 3. Learn how to communicate with other professionals especially dental technicians by the work authorization
- 4. Provide the student with sufficient theoretical background to assist them in managing edentulous and partially dentate patients. This is in the form of slide show and lectures on the various steps involved in fabrication of complete and removable partial dentures from history taking and examination to the recall and assessment stage.

Learning Outcomes:

1. Understand and get familiarized with the consequences of edentulousness, complete and partial denture components and terminology.
2. Gain competency in history taking, clinical examination and the formulation of the most appropriate treatment plan. Identifying patient's problems and rendering a diagnosis requires insight to a patient's social and medico dental background.
3. Be familiar with the anatomy of the denture bearing areas in the mandible and maxilla. Understand the classification of edentulous arches.
4. Be familiar with the principles and theories of impression for complete and partial dentures.
5. Be familiar with required jaw relationships for edentulous patients.
6. Understand the principles of tooth selection, occlusion and setting of teeth for partial and complete denture.
7. Understand the principles of wax denture trial and phonetics for removable denture
8. Be familiar with the principles and techniques of providing postdams for complete dentures
9. Be familiar with the requirements of denture delivery & how to follow it up.
10. Be familiar with the clinical techniques that are used in our daily practice for construction of the prostheses and maintenance of the hard and soft tissues.
11. Gain theoretical knowledge on the management of problems and complication of the removable prosthesis
12. Be familiar with the principles of preprosthetic surgery.
13. Know the functions, shape, form and location of different components of RPD.
14. Understand the basic principles of Removable partial denture (RPD) design.
15. Understand the basic procedure of cast surveying and know the necessary tooth preparation procedures for RPDs.
16. Know how to authorize work to dental technicians.

Teaching and Learning Methods:

- Class lectures, handouts and presentations are designed to achieve the course objectives.
- The acquired skills and knowledge during this course will prepare the student for working on real patients and their models.
- The students are responsible of the material covered during the course.
- Any difficulty or concern during the course should be passed to the instructors and course coordinator immediately.

Attendance:

- It is mandatory for all lectures and laboratory sessions.
- Every student will be allocated to a seat according to the serial number.
- UJ regulations will be applied when you exceed 10% of an excused absence.
- Course drop date is according the UJ regulations.
- Cooperation and professionalism during the lecture time are very helpful and encouraged to facilitate your progress in the course.
- Making any kind of disruption during lecture time will affect you negatively.
- Mr Falah Zubaidi will review the attendance in lectures each time.

Participation:

- All students are highly encouraged to participate in the classes.
- Quizzes and brain storming questions will be essential part of the course.
- Being a positive party during this course will be helpful.
- Never be shy to participate during this course and ask where you get it wrong.
- Students are encouraged to ask questions during the lectures. This will let the staff member know the difficult areas. The student should not think that the question is wasting the time of the lecture. Ask the staff member to repeat the explanation as many as needed to get the answer.
- It is sometimes possible for the staff member not to be sure of the answer. It is the responsibility of the staff member to dig around for the answer and report back to his students.
- Every student should prepare and review for every lecture. Quizzes and assessments are possible through out the lecture time and will include materials covered in the 3rd and 4th years.
- Concerns or complaints should be expressed in the first instance to the course instructor. If no resolution is forthcoming then the issue should be brought to the attention of the Department Chair and if still unresolved to the Dean. Questions about the material covered in the lecture, notes on the content of the course, its teaching and assessment methods can be addressed to the course coordinator and the lecturer.

Assessment and Exams policy:

Exams' Format: Theory exams are likely to be in the form of MCQs. However; they might be in other forms including projects, quizzes and viva.

Graded exams: MCQs will be computer based and the answers will be discussed in the class.

Make up Exams: It is applicable when an acceptable and valid excuse is presented at the applicable time.

Cheating:

- It is unethical and illegal by any means
- UJ regulations will be applicable
- The work should be your own, otherwise it will be scored zero

Dates: According to Registration Unit and the Examination committees.

Quizzes and Participation form portion of the assessment

The following is a suggestion of exams, assessment dates and grade distribution:

Assessment policy		
Assessment Type	Expected Due Date	Weight
Midterm Theoretical exam	According faculty Examination committees	
Participation and Quizzes	Throughout the Module	
Final Theoretical exam	According to Registration Unit	
Total		100

Students with special needs:

- Any student who feels that s/he may need accommodation for any type of disability is encouraged to contact the course coordinator who will be happy to help in any way.
- Accommodations to the course plan can be tailored to the needs of specific individuals after consultations with the dean.

Professionalism:

- Professions tend to be autonomous and self-sufficient i.e having a high degree of control of own affairs while having freedom to exercise professional judgment.
- As it is a trait, which can be easily enhanced, it is thus subject to self-interest and a continuous process of critical evaluation of ethics and procedure.
- As the students have been part of the university for some considerable time, they would be familiar with general principles about it's beliefs on matters such as quality studentship within this environment. We thus expect our students to develop their professionalism even further together with a high Morality. And Dentistry is one of these professions based on such Ethical codes.
- Gross violations of these formal codes are governed by University laws, which delineate the procedures to determine whether a violation of the code of ethics occurred and, if so, what remedies should be imposed.
- This does not mean the list is complete. We encourage students to abide with the more sensitive approach to this by allowing the practice of a high Morality (or proper behavior), which defines right and wrong by the society, philosophy, religion, and individual conscience.
- Students and their instructors often make ethical choices reflexively. But ethically sensitive situations, where time, emotions and marks are pressured, it becomes all too easy to be blind-sided by temptation. The best antidote to ethical lapses is to commit in advance to a set of ethical principles - your personal ethical code that follows or grows to it.
- The course coordinator is always available to talk with the student when problems arise. If a student must talk with the course coordinator after office hours, an appointment can be made for that time.
- If you have any problems that require the attention of an instructor, do not wait until the problem is insurmountable. Do not allow tension to build-up to unsolvable proportions.

Course changes:

- Information contained in this course outline is correct at the time of publication.
- Content of the courses is revised on an ongoing basis to ensure relevance to changing educational, employment needs.
- The course coordinator reserves the right to add or delete material from courses and will endeavor to provide notice of changes to students as soon as possible.
- The timetable may be revised accommodating to holidays & unexpected off days.

University of Jordan, Faculty of Dentistry
Prosthodontics 2
Fourth year Students

Lecture no.	Lecture	Materials covered
1	Examination 1	The edentulous patient; principles of examination and candidate selection for complete denture treatment : History taking, patient's attitude to complete denture, existence of old dentures, past denture experience, past dental history, patient's age; occupation and attitude to appearance
2	Examination 2	Extraoral and intraoral examination, digital examination, radiographic examination
3	The primary impression	review of materials & techniques, the position of the patient & operator, impression trays, impression materials and method for upper and lower arch
4	Prosthodontics management of the gagging reflex:	Mechanism of gagging, cause of gagging, impression taking, management of gagging during denture insertion
5	The final impression:	Special tray, materials and methods for U/L arches Theories behind secondary impressions. Impression technique for abnormal cases of flabby tissues, knife edge ridge, resorbed ridge...etc.
6	Pre-prosthetic surgical procedures	Objectives, conditions requiring surgery: buried roots, unerupted teeth, dental cysts, ridge irregularities, feather and knife-edge ridge, torus palatinus and mandibularis, undercut ridge, myloheid ridge, prominent tuberosities, prominent freni, flabby or fibrous ridges
7	Retention, Stability and Support of complete dentures	Definitions, factors influencing retention stability and support. Viscoelastic behavior of supporting tissues and mechanisms of recovery.
8	Mandibular movements and positions	<i>The temporomandibular joint and Mandibular movements</i>
9	Reviewing the principles of maxillomandibular relationships I	The orientation relation of the Maxilla to the axis of rotation" facebow transfer" The vertical relation of the Mandible to Maxilla: the rest vertical dimension (RVD), the occlusal vertical dimension (OVD)
10	Reviewing the principles of	The Horizontal relations of the mandible to the maxilla: in the sagittal plane RCP,ICP, Protrusive position. In the horizontal plane: the working and balancing positions of the Mandible

	Maxillo mandibular relationships II	
11	Phonetics	Phonetics in relation to complete dentures, validity in determination of the level of occlusal plane, vertical dimension of occlusion lip support...etc.
12	Try-in wax dentures	Try in and check record in try-in stage Insertion of complete dentures
13	Denture hygiene and cleansers also Clinical remount and selective grinding	Use of denture cleansers for acrylic dentures, dentures with metal components, dentures with temporary soft liners.
14	Dentures post delivery problems: (I)	Causes and their solutions
15	Dentures post delivery problems :(II)	Causes and their solutions
16	Examination of the RPD patient,	treatment planning, primary impressions and diagnostic casts
17	RPD mechanics	Denture movements, effect of various components and design features on the elimination of this movement.

18	RPD Components:	Rests, saddles, direct and indirect retainers, major and minor connectors. retention, support, stability, bracing
19	Surveying	Surveying, method, transfer of intended path of insertion to the tooth preparations.
20	RPD design for Kennedy Classes: I and II	
21	RPD design for Kennedy Classes II and IV	
22	Mouth preparation:	Surgical, periodontal, restorative procedures
23	Tooth preparations:	Guide planes, rest seats, recontouring of tooth surfaces, the use of adhesive restorations, inlays, prosthetic crowns to modify unfavorable survey lines.
24	Secondary impressions	Anatomic and physiologic impressions
25	Metal framework try in and the Altered Cast Technique.	The need to fit the denture in the mouth, methods to ensure that.
26	Bite registration and	

	wax try in	
27	Insertion and review	
28	Repairs of RPD and acrylic partial dentures	Management of acrylic resin and metal failures. The Every acrylic RPD

References:

Textbooks:

Complete Denture Prosthodontics:

- Essentials of Complete Denture Prosthodontics by Sheldon Winkler (1994)
- Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Protheses by George A. Zarb, Charles L. Bolender, Steven E. Eckert, and Aaron H. Fenton (2003)
- G.A Zarb; C.L. Bolender; J.C. Hickey and G.E Carlsson: Prosthodontic Treatment for Edentulous Patients 12th edition,2004. Mosby Company
- Prosthetic Treatment of the Edentulous Patient, 4th Edition. RM Basker and JC Davenport; 2002, Blackwell Munksgaard Publishers
- The Complete Denture: A Clinical Pathway. Michael MacEntee; 1999. Quintessence Publishing Co, Inc
- Clinical dental Prosthetics, 4th edition. Roy MacGregor
- McCord JF, Grant AA: A clinical Guide to Complete Denture Prosthetics. 2000, BDJ Books
- McCord JF, Smith P, Grey N: Treatment of Edentulous Patients. 2004, Churchill Livingstone
- Complete denture Prosthetics, 3rd Edition. RJ Neill and RI Nairn; 1990
- Clinical Removable Prosthodontics. Davenport et al, 2000, BDJ Books.

Partial Denture prosthodontics:

- McCracken's Removable Partial Prosthodontics (Carr, McCracken's Removable Partial Prosthodontics) by Alan B. Carr, Glen P. McGivney, David T. Brown. Elsevier, 2005, 11th ed.
- A color Atlas of Removable Partial Dentures by Basker R.M., Heath J.R., Ralph, J.P. Wolfe Medical Publications Ltd, 1988.
- Stewart's Clinical Removable Partial Prosthodontics by Rodney D. Phoenix, David R. Cagna, Charles F. Defreest. Quintessence Publishing (IL); 4 edition (October 2008)
- Dental Laboratory Procedures. Removable Partial Dentures, Volume 3 (v. 3) (Hardcover) by Kenneth D. Rudd, Robert M. Morrow, Harold F. Eissmann
- Removable Partial Denture Design. Outline Syllabus.5th edition Krol et al: 1999
- Davenport JC, Basker RM, Heath JR, Ralph JP, Glantz PO, Hammond P: A Clinical Guide to Removable Partial Denture Design. 2000, BDJ Books.
- Davenport JC, Basker RM, Heath JR, Ralph JP, Glantz PO, Hammond P: A Clinical Guide to Removable Partial Denture. 2000, BDJ Books.

Handouts: According to the lecturer