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|----|--|--------------------------------------|
| 1  | Course title   | Prosthodontics dentistry practical 3 |
| 2  | Course number  | 1304544                              |
| 3  | Credit hours<br>(theory, practical)                  | 2                                    |
|    | Contact hours<br>(theory, practical)                 | 60                                   |
| 4  | Prerequisites/corequisites                           | Removable Prosthodontics practical 2 |
| 5  | Program title  | DDS program                          |
| 6  | Program code   | NA                                   |
| 7  | Awarding institution                                 | The University of Jordan             |
| 8  | Faculty  | Dentistry                            |
| 9  | Department   | Prosthodontics                       |
| 10 | Level of course                                      | Bachelor                             |
| 11 | Year of study and semester (s)                       | first and second semester 2022/2023  |
| 12 | Final Qualification                                  | DDS                                  |
| 13 | Other department (s) involved in teaching the course | None                                 |
| 14 | Language of Instruction                              | English                              |
| 15 | Date of production/revision                          |                                      |

#### 16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

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Wednesday 11 – 1 Hospital Clinic Office

Thursday 8 – 10 Hospital Clinic Office

**17. Other instructors:**

*Office numbers, office hours, phone numbers, and email addresses should be listed.*

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*Dr. Salah Al-omoush. Office hours: Sun. 10-12. phone 23552. E-mail: [dr.omoush@ju.edu.jo](mailto:dr.omoush@ju.edu.jo)*

*Dr. Nadia Eriefij, office hours: Sun. 12-2., phone: 23552, E-mail: [nadia\\_ereifej@ju.edu.jo](mailto:nadia_ereifej@ju.edu.jo)*

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**18. Course Description:**

*Throughout the course and by treating clinical prosthodontic cases, the student is assisted to acquire the necessary skills in patient examination and assessment, diagnosis, treatment planning and construction of different types of removable dentures. It emphasizes management of special cases with understanding of basic principles and their scientific background together with the development of new clinical and technical skills.*

**19. Course aims and outcomes:****Aims:**

This clinical course concludes the last sequence of removable prosthodontic courses leading to a professional degree in dentistry. Experience attained to complete this level brings the student to a point of self-assessment. The student should make sound judgment independent of the instructor. The overall abilities should also show the formation of the student's progress to the point of attaining competency. This course is designed to develop clinical skills and provide information for utilizing removable prosthodontics (conventional and non-conventional complete and partial dentures) for the management of completely/partially edentulous patients.

1. Provide the students with more advanced, current, evidence based and updated information and sufficient practical clinical background to assist them in managing completely/partially edentulous patients using conventional and non-conventional removable complete or partial dentures. This is in the form of clinical sessions.
2. Provide clinical training on the various steps involved in fabrication of conventional and non-conventional complete and removable partial dentures.
3. Prepare the students to be more skilled and efficient with all clinical steps in conventional and non-conventional complete denture and Transitional/Definitive removable partial denture construction and how to manage edentulous patients.
4. Learn how to communicate with other professionals especially dental technicians by the work authorization.
5. Finish various requirements including conventional and non-conventional complete and partial dentures going through the entire clinical steps.

**Outcomes:**

1. Gain working knowledge on the advanced treatment modalities in removable prosthodontics.

2. Be more aware and familiarized with the conventional and non-conventional complete and partial denture components and terminology.

### **Intellectual skills**

1. Be more efficient, clinically oriented and able to tackle the problem solving issues and the more sophisticated prosthodontic treatment.

### **Subject specific skills**

1. Be more competent in history taking and clinical examination and in the formulation of the most appropriate treatment plan. Gain skills of gathering information from patients and establish ways of good communication
2. Be more competent in practicing the principles of making primary impressions for completely/partially edentulous ridges. Selection of appropriate size of stock tray, handling and mixing alginate or impression compound, and ability to evaluate the impression.
3. Be more experienced and practice the principles of making custom trays for completely/partially edentulous cases and practice the principles of making secondary impressions for teeth and edentulous ridges including special tray adjustments and border molding. Ability to trim the special tray to the appropriate dimensions and trace the borders accurately and then selecting the appropriate impression material for making the final impression.
4. Be more experienced and practice the principles of jaw relationships registration for completely/partially edentulous patients and dealing with record blocks intraorally. Ability to trim wax rim according to lip support, leveling of occlusal plane, vertical dimension, free-way space and ability to record the centric jaw relationship accurately, and shade selection.
5. Be more experienced and practice the principles of tooth selection and occlusion for partial and complete denture.
6. Be more experienced and practice the principles of mounting for completely/partially edentulous cases.
7. Be more experienced and practice the principles of setting teeth and the principles of waxing and festooning removable dentures.
8. Be competent at assessing the trial denture from all aspects mentioned in the registration stage: Aesthetics, phonetics, occlusion.
9. Be more experienced and practice the principles and techniques of providing postdams for complete dentures.
10. Be competent at assessing retention, stability, support, appearance of finished dentures, in addition to occlusal adjustment and clinical remount if necessary.
11. Be more efficient and skilled regarding the clinical techniques that are used in our daily practice during removable prosthodontic treatment.
12. Practice the principles of Removable partial denture (RPD) design. Practice surveying, designing partial denture, drawing the design on the form, and communicating with the laboratory.
13. Practice the procedure of cast surveying and the necessary tooth preparation procedures for RPDs. Practice rest seat and guiding planes preparation, and assessing undercut retention.
14. Practicing a mucocompressive impression of the free end saddles using the metal framework, and modifying the cast accordingly.

### **Transferrable skills**

1. Ability to identify patient's complaints and try to solve them.
2. Be more experienced and practice how to authorize work to dental technicians.

**20- Intended Learning Outcomes (ILOs):**

Upon successful completion of this course, students will be able to:

Successful completion of the theoretical part of this course should lead to the following learning outcomes:

- 1- Be able to take history and examine edentulous and partially dentate patients
- 2- Understand the principles of formulating a treatment plan for edentulous and partially dentate patients
- 3- Be able to critically appraise the quality of prosthetic laboratory work
- 4- Understand the principles of balanced occlusion in complete dentures,
- 5- Be aware of the properties of materials used in removable prostheses construction
- 6- Gain working knowledge on immediate dentures, copy dentures, relining and rebasing techniques.

7- Understand the principles of fabricating and designing RPD

Upon successful completion of the clinical part of this course, the student should gain the following skills:

- 1- Concepts of clinical examinations, diagnosis, treatment planning.
- 2- Construction of the prostheses and maintenance of the hard and soft tissues.
- 3- Ability to survey diagnostic casts and input in the design process of acrylic partial dentures.
- 4- Ability to practice all clinical and laboratory steps of complete and partial denture construction.

## 21. Evaluation Methods and Course Requirements:

### 1- Students are required to complete the following two competencies successfully during the year:

- Accreditation and Quality Assurance Centre      Course Syllabus      The University of Jordan
- Complete denture final impression (mandibular or maxillary arch).
  - Maxillomandibular Relationship registration for Full Complete Denture.

### 2- Students final grade out of 100 is the sum of 60 (continuous clinical assessment) and 30 (OSCE) and 10 (Viva).

- Students' continuous clinical assessments in the clinics will be graded out of 60. This is divided into 30 marks for the points collected (quantity), and 30 marks for the average marks of each clinical case (quality).
- Students need to keep all the cases in a log book with a photo for each case before and after treatment.
- Students need to obtain a minimum of 30 points including a minimum of 4 major arches and a maximum of 50 points and 6 major arches.
- Full Complete Denture is a mandatory requirement.
- Two intermediate arches are considered one major arch.
- For the different clinical cases, a set of points are predetermined for each arch depending on the clinical steps required to finish the procedure and the complexity of the case. The points for each arch are presented in the table:

| Clinical tasks   |                             | Points               |                      |                      |
|--|-----------------------------|----------------------|----------------------|----------------------|
| Major arch   |                             | 1 <sup>st</sup> arch | 2 <sup>nd</sup> arch | 3 <sup>rd</sup> arch |
| 1  | Co-Cr RPD                   | 14                   | 7                    | 3.5                  |
| 2  | CD                          | 10                   | 5                    | 2.5                  |
| 3  | Overdenture                 | 12                   | 6                    | 3                    |
| 4  | Duplicated CD               | 8                    | 4                    | 2.5                  |
| 5  | Acrylic RPD (Class I & II)* | 10                   | 5                    | 2.5                  |
| Intermediate arch  |                             | 1 <sup>st</sup> arch | 2 <sup>nd</sup> arch | 3 <sup>rd</sup> arch |
| Acrylic RPD (class III & IV)**   |                             | 3                    | 2                    | 1                    |
| Minor arch***  |                             | 1 <sup>st</sup> arch | 2 <sup>nd</sup> arch | 3 <sup>rd</sup> arch |
| Reline / Rebase /<br>Repairing a prosthesis with a pick-up<br>impression |                             | 2                    | 1                    | 0.5                  |

\* For an Acrylic denture case to be considered as a major arch case, it should take at least 5 clinical sessions to be completed.

\*\* Class III and IV cases are considered an Intermediate arch case if there is sufficient occlusal stop and takes less than 5 sessions to be finished. However, if the case is with modifications and needs an occlusal registration step, please consult with the course coordinator first to label the case as a major arch.

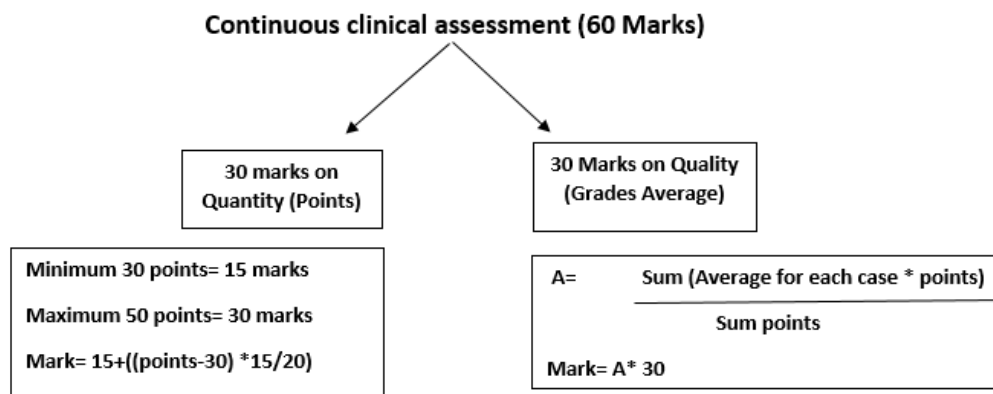
\*\*\* Irrespective of the case type, minor arch points are calculated as 2 points for the first case, 1 point for the second case and 0.5 point for the third case. A maximum of 3 minor cases is allowed for the whole year.

- The final exam will include an OSCE computerized exam which weigh 30 marks out of 100, and a viva exam which weigh 10 marks out of 100.

### 3- Failure of the course happen when:

- The student fails to enter the final exam because of not successfully fulfilling the competencies.
- The student fails to reach the minimum points, which are 30 points with a minimum 4 arches.
- Getting less than 50 out of 100 at the end of the course.

### 4- Calculation of the continuous assessment:



### 5- Requirements (For Practical & Clinical Courses)

Students need to bring the following armamentarium during each clinical session:

- Impression trays of different sizes and for different purposes.
- Wax knife, Lacron carver and Stanly Knife
- Loop forming pliers and Wire cutter
- Rubber bowel and Plaster spatula
- Protective glasses Lighter and Pencil (indelible)
- Gloves, masks and Eye protective glasses
- Clean and Tidy Laboratory white coat available every clinic. Name badge mounted all the time during the laboratory sessions

This list will be checked during the clinical session

Students are not allowed to show instruments especially the indelible pen in order to prevent any infection

## 22. Teaching Methods and Assignments:

### Teaching methods:

- Clinical sessions are designed to achieve the course objectives
- The acquired clinical skills during this course will allow the student to manage completely/partially edentulous patients using conventional and non-conventional complete and partial dentures, be more efficient, and be more capable of problem solving during prosthodontic treatment.
- Discussions with the clinical supervisors are main component of the teaching methods.
- The students treat patients under strict supervision.
- 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.

During the course, once you finished a case with one supervisor; you should switch to the other supervisor to start a new case and you must not stick to one supervisor during the whole semester. This is essential and mandatory for the student to be exposed to the experience of all available supervisors and thus make the best of all their knowledge and experience.

### Lab Work:

- a lab form should be completed and signed by the clinical supervisor before sending the work to the lab. The instructions should be fully detailed and clear to avoid any lab errors.
- the student work should be marked with the student's name and university number
- The Lab work should be finished in the UJ dental technology labs and the students are allowed to finish their work outside the university.
- the student is responsible for fabrication and maintenance of primary models, special tray, secondary models, record blocks, mounting, setting of teeth, flasking, de-waxing, packing, curing, de-flasking, finishing and polishing of the denture.
- all the instruments needed should be brought to the clinic. (instruments needed are listed below)
- students should leave their worktop as clean as possible
- Cooperation and professionalism in the lab are very helpful and encouraged to facilitate students' progress in the course
- Dress code using lab coat should be adhered to all the time in the lab, and the coat should be on before entering the lab and only removed outside the lab after finishing the work.

Duration: 14 sessions per semester with one session (2 hours) per week

Lectures/Practical Sessions: 1.5 sessions (3 hours each) per week.

## 23. Course Policies:

### A- Attendance policies:

- It is mandatory for all clinical sessions.
- Every student is allocated to a clinic according to the serial number.
- UJ regulations are applied when a student exceeds 10% of an excused absence.
- Course drop date is according the UJ regulations.
- The dental nurse in the clinic will review the attendance in each clinic during the first 10 minutes of clinic time.
- Changing clinics is not allowed without previous arranged appointment under the supervision of the supervisor

who allowed for the change and on the condition that this will not disturb the clinic and will not affect the work of other students who attend that clinic according to the schedule.

B- Absences from exams and handing in assignments on time:

According to the roles and regulations of the University of Jordan

C- Health and safety procedures:

According to the roles and regulations of the Faculty of Dentistry

D- Honesty policy regarding cheating, plagiarism, misbehaviour:

According to the roles and regulations of the University of Jordan

E- Grading policy:

According to the roles and regulations of curriculum for the academic degree of Doctor of Dental Surgery (DDS)

F- Available university services that support achievement in the course: None

## 24. References:

A- Required book (s), assigned reading and audio-visuals:

Textbooks:

Complete Denture Prosthodontics:

- Essentials of Complete Denture Prosthodontics by Sheldon Winkler (1994)
- Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prosthodontics by George A. Zarb, Charles L. Bolender, Steven E. Eckert, and Aaron H. Fenton (2003)
- 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
- Complete denture Prosthetics, 3rd Edition. RJ Neill and RI Nairn; 1990
- 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

Handouts: According to the lecturer

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Name of Course Coordinator: -Wijdan R Elmanaseer--- Signature: ----- Date: 19/9/2022

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:

Head of Department  
Assistant Dean for Quality Assurance  
Course File