

1	Course title	Fixed and Removable Prosthodontics and Related Surgery-1
2	Course number	1302726
3	Credit hours (theory, practical)	4 (1 theory & 3 practical)
	Contact hours (theory, practical)	2 theory/2weeks & 12 clinical
4	Prerequisites/corequisites	1304715
5	Program title	MSc in Fixed & Removable Prosthodontics
6	Program code	
7	Awarding institution	The University of Jordan
8	School	Faculty of Dentistry
9	Department	Department of Conservative Dentistry & Department of Removable Prosthodontics
10	Level of course	Masters
11	Year of study and semester (s)	Third year, First semester
12	Final Qualification	MSc
13	Other department (s) involved in teaching the course	Department of Conservative Dentistry & Department of Removable Prosthodontics
14	Language of Instruction	English
15	Date of production/revision	August 2017

16. Course Coordinator:

<i>Prof Fouad Kathem, office hours: Sun.11-12, Tue: 12-1, Ext 23552, E-mail: fouadk@ju.edu.jo</i>

17. Other instructors:

<i>Office numbers, office hours, phone numbers, and email addresses should be listed.</i>
<i>Dr Susan Hattar, office hours: Mon.12-2, Ext 23552, Email: s.hattar@ju.edu.jo</i>
<i>Prof Fouad Kathem, office hours: Sun.11-12, Tue: 12-1, Ext 23552, E-mail: fouadk@ju.edu.jo</i>
<i>Dr.Salah Al-omoush..E-mail: dr.omoush@ju.edu.jo</i>
<i>Prof Ameen Khraisat, E-mail: a.khraisat@ju.edu.jo</i>
<i>Dr Tarawneh E-mail: s_altarawneh@ju.edu.jo</i>
<i>Prof Jamani E-mail: kifah@ju.edu.jo</i>

18. Course Description:

This course takes the form of clinical sessions that aims at enabling the student to diagnose, provide treatment plan and manage cases that require advanced treatment techniques including full mouth rehabilitation. Postgraduate students will accompany teaching staff in supervising undergraduates to help them gain experience in clinical teaching, evaluation and to be exposed to a wide range of clinical scenarios and challenges. The course also include lectures in methods of pre-prosthetic preparation with emphasis on pre-prosthetic surgical procedures.

19. Course aims and outcomes:

A- Aims:

- This course enables the students to master clinical skills by treating the more advanced prosthetic cases.
- They will be exposed to clinical cases requiring complex oral rehabilitation, and through the multidisciplinary approach the students will be able to provide a comprehensive treatment for their patients.
- Special emphasis will be given to pre-prosthetic surgical procedures, in addition to implant surgery.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to

- 1) Manage cases requiring pre-prosthetic surgical intervention in collaboration with surgical team (interns).
- 2) Fully understand the physiology of bone regeneration and the healing process after different surgical interventions such as tooth extraction or implant placement.
- 3) Comprehend the surgical complications that might result from maxillofacial interventions. Understand the medical and surgical management for these complications as well as infections related to the head and neck region.
- 4) Gain in depth knowledge of implant planning, from basic methods of surgical guides, imaging to more advanced computer guided surgery.
- 5) Recognize the clinical steps for implant insertion and acknowledge the indications for immediate placement and loading.
- 6) Ability to perform implant placement in the maxilla and mandible. Proceed with treatment correctly, in terms of pre-surgical planning based on diagnostic wax-ups, proper radiological assessment and well-designed guides.
- 7) Apply knowledge of occlusal schemes and considerations in regard to full mouth rehabilitation cases.
- 8) Employ previous theoretical & clinical acquired skills to manage cases of full mouth rehabilitation.
- 9) Assist in supervision of undergraduate students, in preclinical labs and clinical sessions that involve fixed and removable prosthodontic work, in order to gain proper teaching experience.

20. Topic Outline and Schedule:

Seminar No.	Topic	Supervisor	Achieved ILOs	Evaluation Method	Reference
1 (week 2)	Alveolar Bone Bone physiology and regeneration Characteristics of alveolar bone in edentulous patients Functional effects of edentulism	Dr Al-Omoush	2	22	25 (A&B)
2 (week 4)	Wound Repair Physiology of wound healing after extraction and implant placement. Complications of wound healing Surgical anatomy of the maxillofacial region Dental infections and their management	Prof Baqain	2,3	22	25 (A&B)
3 (week 6)	Treatment Planning Medical evaluation of the implant patient Diagnostic casts and surgical guides Diagnostic imaging techniques Computer guided surgery	Dr Tarawneh & Dr Hadidi	4, 5, 6	22	25 (A&B)
4 (week 8)	Pre-prosthetic surgery Recontouring of alveolar ridges Exostosis and tori removal Soft tissue surgery for maxilla and mandible	Dr Al-Omoush	1	22	25 (A&B)
5 (week 10)	Implant insertion Flap vs flapless surgery Single vs double stage Late vs immediate placement	Dr Abu Karaky	4, 5, 6	22	25 (A&B)
6 (week 12)	Loading protocols and occlusal consideration in implant dentistry	Prof Khraisat	7	22	25 (A&B)
7 (week 14)	Full arch rehabilitation	Prof Khraisat	8	22	25 (A&B)

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

Clinical Sessions

Each clinic duration is 3 hours, 3 times a week. Students are asked to bring their patients and perform full examination and documentation of each case. Followed by a discussion of the comprehensive treatment plan with the instructors. After getting the approval for the clinical case, the student may start the clinical work that is continuously monitored and supervised by the instructor all through the semester.

Seminars

- Seminars will be lead by the faculty members listed in the course outline.
- Every other week a seminar of 2 hours is given to the students corresponding the designated topic.
- Faculty members will distribute a number of "*Key Scientific Articles*" at least one week before the scheduled date of the seminar.
- Each student will be responsible for reading and understanding all articles.
- The seminar consists of a brief introduction of the subject (instructor), followed by a discussion of the most recent literature review.
- Each student will be responsible for presenting one or two of the key articles during the seminar (10 – 15 min) and provide a typed and printed handout to everyone attending the seminar.
- The seminar ends with an interactive discussion and exchange of ideas between students and staff members.

22. Evaluation Methods and Course Requirements:

Students must accomplish by the end of the semester the following **MINIMUM** clinical requirements:

1. Complete arch restoration that involves that involves (Fixed Prosthodontics only OR Fixed and Removable prosthodontics)
2. Partial arch restoration that involves (at least 8-10 units) (Fixed Prosthodontics only OR Fixed and Removable prosthodontics)
3. 2 complete denture patients (advanced restoration cases)
4. 3-5 unit implant retained fixed prosthesis OR implant retained complete denture.
5. Aesthetic treatment (6-8 porcelain laminate veneers, OR 6-8 anterior ceramic crowns).
6. Advanced Co-Cr partial denture case
6. Presentation of one case at the end of the semester.

IMPORTANT :

- o All treatment procedures must be supervised and carried out in the graduate clinics.
- o Students are obliged to demonstrate a high professional level of clinical skills and carry out treatment tasks obeying very strictly the ethical code of conduct.
- o Students are strongly encouraged to complete a comprehensive case from the above requirements, to be submitted in the portfolio or presented at the end of the semester.
- o All patients must be approved by the faculty of the graduate program.
- o All surgical procedures should be discussed with and supervised by the oral surgery faculty according to the arrangement:
- o All postgraduates **MUST** abide by cross infection control measures and regulations.
- o All students **MUST** submit a portfolio containing the following:
 - Digital records of all their clinical cases including photographs
 - A table containing all the clinical requirements performed.
 - Seminars prepared
 - Any publications, audits, abstracts presented by the student during the semester
 - The case presentation

- Evaluation:
 - 45% of the mark is attributed to written exams (15% mid-term and 30% final)
 - 55% of the mark is attributed to the students clinical work (requirements)

23. Course Policies:

A- Attendance policies:

Seminar and clinic attendance is mandatory. However, 15% allowed absence is granted for students by the university law.

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

A make up exam is allowed in cases where the students misses the exam due to an acceptable excuse, and the excuse is submitted in due time according to the university regulations.

C- Health and safety procedures:

All patients must be approved by the faculty of the graduate program.
All postgraduates MUST abide by cross infection control measures and regulations.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

We follow the rules and regulations set by the University of Jordan.

E- Grading policy:

Student overall grade will be comprised of:

- 15% midterm written exam
- 30% final written exam
- 15% seminar evaluation
- 40% continuous clinical assessment
 - 20% on quality
 - 20% on quantity
 - 10% case presentation

F- Available university services that support achievement in the course:

Students can utilize the university main library, medical library or the electronic library (ezlibrary) for references. In addition, they can access staff websites for additional information related to the course.

24. Required equipment:

Students are required to have:

- 1) **Semiadjustable articulator**
- 2) **Macrolens camera, intra-oral mirrors and retractors.**
- 3) **Laptop**
- 4) **Dental loops (optional)**

25. References:

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

B- Key Scientific articles and the most updated literature articles are given for each seminar (The topics covered in the seminars constitutes the main exam material)

26. Additional information:

PG students must prepare the following documentation during the course of their study and clinical training:

- A cumulative logbook outlining all treatment provided to patients as well as a copy of the patient file
- All treatment plans should be co-signed by two supervisors BEFORE any treatment is started and registered at the academic coordinator. Any treatment carried out before a treatment plan is signed will not be counted towards requirements.
- PG students should make sure that their clinical cases are supervised by attending faculty members.
- A portfolio folder containing documentation of all clinical cases including clinical photographs and relevant radiographs as a brief PowerPoint presentations.

Name of Course Coordinator: -----Signature: ----- Date: -----

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

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

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

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