

1	Course title	Fixed & Removable Prosthodontics related surgery -2
2	Course number	1304720
3	Credit hours (theory, practical)	4 hrs (1 theory, 3 practical)
	Contact hours (theory, practical)	2 hrs (theory)/2 weeks, 13 hrs (clinical)/week
4	Prerequisites/corequisites	Fixed & Removable Prosthodontics related surgery- 1 (1302726)
5	Program title	MSc in Fixed & Removable Prosthodontics
6	Program code	
7	Awarding institution	The University of Jordan
8	Faculty	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)	Second year, Second 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	January 2018

16. Course Coordinator:

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

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

17. Other instructors:

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

Prof. Zaid Baqain: Email: zbaqain@ju.edu.jo
 Dr Sukaina Ryalat: Email: salryalat@yahoo.com
 Dr Ashraf Abukaraky: Email: a.abukaraky@ju.edu.jo
 Dr. Hazem Al Ahmad: Email: halahmad@hotmail.com
 Dr Mouhammad Shyyab: Email:

18. Course Description:

As stated in the approved study plan.

This course includes a detailed coverage of all the advanced procedures used to surgically prepare oral tissue for fixed and removable prosthodontics. This course is also concerned with training students in minor reconstructive surgical procedures related to prosthetic work. An integral part of the course is to participation in the advanced pre-prosthetic surgical procedures. 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.

19. Course aims and outcomes:

Aims:

- 1) Ensure that the students are up to date with latest developments and demonstrate a specialty level of treatment of prosthodontics cases
- 2) The practical components aim at having the student capable of evaluating his/her gained skills, and develop new diagnostic and clinical skills related to fixed and removable prosthodontics, including laboratory procedures.

B- Intended Learning Outcomes (ILOs):

- 3) Communicate well with patient in a professional ethical manner, ability to explain and discuss treatment plan and phases of treatment.
- 4) Present clinical cases in a didactic manner and defend the treatment modality and progress of the case in front of peers and staff.
- 5) Design a portfolio that represents the students work at the end of the semester, including photographs & short description of the clinical cases.
- 6) Devise strategies and treatment plans while weighing the benefits and limitations of different treatment options to achieve the best outcome and prognosis.
- 7) Demonstrate clinical proficiency in the delivery of preventive and interventional general and prosthodontic care as part of a holistic, comprehensive treatment plan.
- 8) Show competency in examination and diagnosis of clinical cases, working with other specialties (interdisciplinary approach) and referring patients when needed.
- 9) Appraise systematically current evidence in Prosthodontics and appreciate how research activity can inform practice, with ability to assess different research.
- 10) Supervise and guide undergraduate students in various preclinical prosthodontic labs, in addition to clinical sessions.
- 11) Formulate appropriate treatment plans for implant-retained or supported fixed or removable prostheses, while working as part of a multi-disciplinary team to achieve optimum outcomes for the patient.
- 12) Provide high quality treatment for patients requiring implant retained prosthesis with a well-planned execution. Perform surgical and radiographic guides. Realize cases in need of bone grafting.
- 13) Knowledge in different types of bone grafts, recognize their indications and surgical procedures.
- 14) Understand the different modalities of treatment related to implant dentistry in particular specific procedures involving sinus lifts and zygomatic implants.
- 15) Management of complex cases of edentulism involving severely resorbed ridge in a professional manner based of previous knowledge of different impression techniques.
- 16) Develop the ability to systematically plan the management of a clinical problem and the necessary practical surgical skill and refer to the surgical or emergency department when deemed necessary.

20. Topic Outline and Schedule:

Seminar No.	Topic	Supervisor	Achieved ILOs	Evaluation Method	Reference
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1 (week 2)	<p>Bone substitute materials:</p> <ul style="list-style-type: none"> - Types - Indications - Handling techniques - Healing process <p>New advances and future research</p> <p>Management of localized bone defects</p> <ul style="list-style-type: none"> - Types of bony defects - Rational for treatment prior to implantation <p>Surgical treatment options</p> <p>Bone morphogenetic proteins and platelet rich plasma</p>	Prof Hazem	13	22	25 (A&B)
2 (week 4)	<p>Autogenous bone grafts (intra-oral sites)</p> <ul style="list-style-type: none"> • Sites • Advantages/disadvantages • Techniques • Indications <p>Autogenous bone grafts (extra-oral sites)</p> <ul style="list-style-type: none"> • Commonly used sites • Indications • Techniques <p>Complications</p>	Prof Baqain	13	22	25 (A&B)
3 (week 6)	<p>Short dental implants</p> <ul style="list-style-type: none"> • Definition • Rational behind their use (evidence based) • Challenges • Biomechanics of loading 	Dr Shyyab	11, 12	22	25 (A&B)
4 (week 8)	<p>Severely resorbed Maxilla & Mandible</p> <ul style="list-style-type: none"> • Definition • Types • Challenges in prosthodontics rehabilitation • Surgical options 	Dr Abu Karaky	15	22	25 (A&B)
5 (week 10)	<p>Maxillary sinus floor elevation</p> <ul style="list-style-type: none"> • Definition • Indications • Techniques • The need for bone graft • Complications • Recent advances • Implants placed into augmented sinuses 	Dr Abu Karaky	14	22	25 (A&B)
6 (week 12)	<p>Zygomatic implants</p> <ul style="list-style-type: none"> • Historical perspective • Types • Indications • Techniques 	Prof Baqain	14	22	25 (A&B)

	<ul style="list-style-type: none"> Alternative treatment options Extra-oral implants <ul style="list-style-type: none"> Types Biological considerations Prosthetic requirements and indications				
7 (week 14)	Managing complications <ul style="list-style-type: none"> Patient perspective Clinician perspective Implant related complications Bone graft related complications 	Dr Ryalat	16	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.

- Seminar Sessions**

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:

Requirements:

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

1. Complete arch rehabilitation (Full fixed prosthodontic treatment or Combined) with at least 4 preparations.

2. Full Mouth Rehabilitation upper and lower complete arches including at least 12 preparation, (Fixed or combined)
3. 2 Arches (1 upper and 1 lower) Complete Denture, **advanced case** (flat or flabby or unemployed ridge, i.e. cases that require special impression techniques)

IMPORTANT:

- All patients must be approved by the faculty of the graduate program.
- All postgraduates MUST abide by cross infection control measures and regulations. .
- All students MUST submit a portfolio containing the following:
 - I. Digital records of all their clinical cases including photographs
 - II. A table containing all the clinical requirements performed.
 - III. Seminars prepared
 - IV. Any publications, audits, abstracts presented by the student during the semester

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% Case presentation
- 40% continuous clinical assessment
 - 20% on quality
 - 20% on quantity

F- Available university services that support achievement in 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:**A. Required book (s), assigned reading and audio-visuals:**

- 1) Contemporary Fixed Prosthodontics; by Rosenstiel FS, Land MF, Fujimoto J. 4th Edition. St Louis: Mosby.
- 2) Fundamentals of Fixed Prosthodontics; by Shillingburg HT, Hobo S, Whitset LD.. Quintessence, Chicago
- 3) Sturdevant's Art and Science of Operative Dentistry; by Sturdevant, C. M., Barton, R. E., Sockwell, C. L., Strickland, W. D. The C. V. Mosby Co. St. Louis.
- 4) Cohen's Pathways of the pulp; by Cohen, S., and Berman, R. C. 11th Edition 2015. Mosby Co. St.Louis.
- 5) McCracken's Removable Partial Prosthodontics; by Carr A, Brown D. 12th Edition 2010.

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: **DR Susan Hattar**-Signature: ----- Date: -----

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