

1	Course title	Fixed & Removable Prosthodontics -1
2	Course number	1302727
3	Credit hours (theory, practical)	4 hrs (1 theory, 3 practical)
	Contact hours (theory, practical)	2 hrs (theory)/2 weeks, 12 hrs (clinical)/week
4	Prerequisites/corequisites	N/A
5	Program title	MSc in Fixed & Removable Prosthodontics
6	Program code	
7	Awarding institution	The University of Jordan
8	School	School of Dentistry
9	Department	Department of Conservative Dentistry & Department of Removable Prosthodontics
10	Level of course	Masters
11	Year of study and semester (s)	First 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	December 2018

#### 16. Course Coordinator:

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

**Prof Fouad Al Shammari**, office hours: Sun.11-12, Tue: 12-1, Ext 23552, E-mail: [fouadk@ju.edu.jo](mailto:fouadk@ju.edu.jo)

#### 17. Other instructors:

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

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## 18. Course Description:

The theoretical content of this course will be in the form of seminars and will include the basic principles of diagnosis and treatment planning for all types of fixed and removable cases whilst the practical component of the course will be conducted as clinical sessions. The course in its theoretical and practical components aims at enabling the students to diagnose, provide a treatment plan and manage cases that require treatment using various types of fixed and removable prosthesis.

## 19. Course aims and outcomes:

### A. Aims:

The objective of this course is to enable the students to diagnose, provide a treatment plan and manage advanced cases of fixed and removable prosthesis, including the laboratory procedures, such as diagnostic wax-ups, cast mounting through facebows and semi-adjustable articulators.

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

- 1) Accomplish clinical examination of patients, including extra-oral and intra-oral examination, radiographic assessment, occlusal analysis and mounting study casts.
- 2) Establish proper diagnosis and comprehensive treatment plans for the clinical cases.
- 3) Apply the principle of tooth preparation when treating patients requiring fixed prosthodontics work.
- 4) Restore endodontically treated teeth, through different types and techniques of post & core restorations.
- 5) Apply different impression techniques for the treatment of simple cases of completely edentulous patient.
- 6) Master jaw relation registration at different centric and eccentric positions
- 7) Record and transfer accurately the appropriate occlusal relationship through the use of facebows and semi-adjustable articulators.
- 8) Manage cases of partially edentulous patients by constructing appropriate well designed Co-Cr removable partial denture.
- 9) Aptitude in **comprehensive treatment** of cases requiring fixed or removable prosthodontics work while including all other restorative treatment such as direct restorations and endodontic treatment.
- 10) Provide appropriate provisional restorations for intermediate stages of treatment whilst understanding the biological, aesthetic & functional requirements of this restoration.
- 11) Design and achieve full diagnostic wax up of the clinical cases treated.
- 12) Design a portfolio that represents the students work at the end of the semester

## 20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
1 (week 2)	Diagnosis and Treatment Planning Prosthodontics (including fixed prosth. Design):	Prof. Al Shammari	1, 2	22	25 (A & B)

	<ul style="list-style-type: none"> <li>- Introduction</li> <li>- History</li> <li>- Examination</li> <li>- Diagnosis</li> <li>- Treatment planning</li> <li>- Design</li> </ul>				
2 (week 4)	Principles of tooth preparation <ul style="list-style-type: none"> <li>- Complete cast and metal ceramic crowns</li> <li>- All-ceramic crown</li> <li>- Partial veneers crown, inlay and onlay</li> </ul>	Prof. A. Khraisat	3	22	25 (A & B)
3 (week 6)	Restoring of endodontically treated teeth (ETT) <ul style="list-style-type: none"> <li>- Cusp fractured of ETT</li> <li>- Endodontically treated teeth as abutment</li> <li>- The need of extra-coronal support</li> <li>- The importance of remaining tooth structure</li> <li>- Criteria for post placement</li> <li>- Post selection</li> <li>- Post preparation</li> <li>- Post cementation</li> </ul>	Prof. Al Shammari	4	22	25 (A & B)
4 (week 8)	Special impression techniques in completely edentulous patient <ol style="list-style-type: none"> <li>a. Highly atrophic ridges:             <ol style="list-style-type: none"> <li>I. Admix-technique</li> <li>II. Functional impression technique</li> <li>III. Neutral zone impression technique (Piezographic or denture space)</li> </ol> </li> <li>b. Flabby ridges:             <ol style="list-style-type: none"> <li>I. Muco-compression without displacement</li> <li>II. Open-window technique (Mucostatic)</li> </ol> </li> <li>c. Biometric impression             <ol style="list-style-type: none"> <li>I. Mandibular impression</li> <li>II. Maxillary impression</li> </ol> </li> <li>d. Unemployed mandibular impression technique</li> </ol>	Dr. S. Omoush	5	22	25 (A & B)
5 (week 10)	Jaw relation registration <ol style="list-style-type: none"> <li>I. The maxilla-mandibular relations</li> <li>II. Methods of measuring the vertical dimension</li> <li>III. Recording the retruded contact position</li> </ol>	Prof. W. Amin	6,7	22	25 (A & B)
6 (week	Classification system of partial edentulism and treatment planning for RPDs	Prof. K. Jamani	8,9	22	25 (A & B)

12)	I. Different classification system II. Examination, diagnosis and assessment of partially edentulous patient				
7 (week 14)	The effect of RPD clasp design on abutment tooth mobility and RPI system concept for free-end saddle RPD I. Different clasp design II. RPI concept	Prof. K. Jamani	8,9	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 led 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:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

- Requirements:

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

1. A treatment of patient with at least 6 units of crown/bridge work (min 4 preparations)

2. A treatment of patient with combined fixed and removable prosthodontic work (Co-Cr), treatment includes min (2-3) full coverage preparation.
3. 2 Complete denture patients (upper and lower arches)
4. An overdenture retained by natural teeth.
5. A Cr-Co partial denture patient
6. Any extra case of the above mentioned categories
7. Miscellaneous work: cast post, endo molar, immediate denture, occlusal splint, crown lengthening.

**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

• Evaluation:

*Student overall grade will be comprised of:*

- 15% midterm written exam
- 25% final written exam
- 10% seminar evaluation
- 50% continuous clinical assessment
  - 25% on quality
  - 25% on quantity

**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
- 25% final written exam
- 10% seminar evaluation
- 50% continuous clinical assessment
  - 25% on quality
  - 25% on quantity

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

- 1) Contemporary Fixed Prosthodontics; by Rosenstiel FS, Land MF, Fujimoto J. 4<sup>th</sup> 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. 11<sup>th</sup> Edition 2015. Mosby Co. St.Louis.
- 5) McCracken's Removable Partial Prosthodontics; by Carr A, Brown D. 12<sup>th</sup> 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: ----Prof Fouad Kadim----Signature: ----- Date: -----

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

Head of Department: -Dr Susan Hattar & Dr Sandra Al-Tarawneh----- Signature: -----

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

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