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| 1 | Course title | Removable Prosthodontics theory (1) |
| 2 | Course number | 1304343 |
| 3 | Credit hours (theory, practical) | One credit hour (theory) |
| | Contact hours (theory, practical) | One hour/week |
| 4 | Prerequisites/corequisites | None |
| 5 | Program title | Doctor of Dental Surgery (DDS) |
| 6 | Program code | NA |
| 7 | Awarding institution | The University of Jordan |
| 8 | Faculty | Faculty of Dentistry |
| 9 | Department | Department of Prosthodontics |
| 10 | Level of course | Bachelor |
| 11 | Year of study and semester (s) | Third year first and second semesters 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.

Dr.Rasha Alamoush. Email: r.amoush@ju.edu.jo

Phone 23552

Office hours Thursday 12-2

17. Other instructors:

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

Dr. Nadia Ereifej, Phone: 23552 email: Nadia.ereifej@ju.edu.jo

Dr. Nisreen Salem, Phone: 23552 email: n.salim@ju.edu.jo

Dr. Samiha Sartawi. Phone: 23552 email: s.sartawi@ju.edu.jo

Dr. Motasum Abu Awwad. Phone 23552 email: m.abuawwad@ju.edu.jo

Dr. Wijdan Elmanaseer. Phone 23552 email: w.almanaseer@ju.edu.jo

Dr. Mohamed Bustani. Phone 23552 email: m.bustani@ju.edu.jo

18. Course Description:

This course discusses the principles of removable Prosthodontics. Besides reviewing the relevant anatomy and physiology of the craniofacial region and occlusion, it explores equipment, instruments, materials and various steps of procedures and techniques used for the construction of complete and partial removable dentures with interest to characterization of dentures basis for esthetics

19. Course aims and outcomes

A- Course aims:

1. Provide the students with basic 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. Provide slide shows on the various steps involved in fabrication of complete and removable partial dentures.
3. Prepare the students for the clinics to be familiar with all clinical and laboratory steps in complete/removable partial denture construction and how to manage edentulous patients

A- Intended Learning Outcomes (ILOs):

1. Dental student should become well versed in the knowledge of basic principles of complete dentures and removable partial dentures terminology and construction.
2. Ability to distinguish differences between dentate and edentulous statuses in regards to consequences of edentoulism and the available treatment options for completely/partially edentulous patients.
3. Be familiar with the anatomy of the denture bearing areas in the mandible and maxilla. Understand the classification of edentulous arches.
4. Become familiar with primary impression making and understand factors influencing degree of tissue displacement, types of trays and materials used for primary impression making.
5. Become familiar with secondary impression making, special tray fabrication, border moulding, impression making and production of master cast.
6. Become familiar with mandibular movements and maxillomandibular relationships of the edentulous patient, and principles of articulators and facebow use.
7. Become familiar with artificial teeth types, selection, and setting guidelines.
8. Become familiar with principles of dentures wax up and festooning and try in assessment as well as denture processing steps.
9. Become familiar with RPD types and components.
10. Become familiar with principles of surveying, tooth modifications, and RPD design philosophies.
11. Become familiar with the sequence of RPD fabrication.
12. Know the functions, shape, form and location of different components of RPD.
13. Become familiar with altered cast technique.
14. Be able to write lab authorization form and communicate with the dental technician.

20. Topic Outline and Schedule:

| 1. | | | | | |
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| Topic | Week | Instructor | Achieved ILOs | Evaluation Methods | Reference |
| Introduction to the complete denture prosthodontics. Terminology | 1 | Dr. Wijdan | 1,2 | 22 (A,C) | 25. A (1,2,3) |
| Anatomy of the maxillary and mandibular denture bearing areas | 2 | Dr. Wijdan | 3 | 22 (A,C) | 25. A (1,2,3) |
| The primary impression | 3 | Dr. Wijdan | 4 | 22 (A,C) | 25. A (1,2,3) |
| The secondary impression | 4 | Dr. Wijdan | 5 | 22 (A,C) | 25. A (1,2,3) |
| Mandibular movements | 5 | Dr. Nisreen | 6 | 22 (A,C) | 25. A (1,2,3) |
| Vertical dimension and horizontal relations of the mandible to the maxilla | 6 | Dr. Nisreen | 6 | 22 (A,C) | 25. A (1,2,3) |
| Articulators and face bow registration | 7 | Dr. Nisreen | 6 | 22 (A,C) | 25. A (1,2,3) |
| Artificial teeth | 8 | Dr. Samiha | 7 | 22 (A,C) | 25. A (1,2,3) |
| Arrangement of artificial teeth | 9,10 | Dr. Samiha | 7 | 22 (A,C) | 25. A (1,2,3) |
| Wax up of dentures | 11 | Dr. Rasha | 8 | 22 (A,C) | 25. A (1,2,3) |
| Flasking, Packing, curing cycles | 12 | Dr. Rasha | 8 | 22 (A,C) | 25. A (1,2,3) |
| Processing errors laboratory remount and Occlusal adjustments | 13 | Dr. Rasha | 7 | 22 (B,C) | 25. B (1,2,3) |
| Finishing the denture, insertion and clinical remount | 14 | Dr. Rasha | 8, 13 | 22 (A,C) | 25. A (1,2,3) |
| Types of RPD | 15 | Dr. Motasum | 9 | 22 (B,C) | 25. B (1,2,3) |
| Surveying | 16, 17 | Dr. Motasum | 10 | 22 (B,C) | 25. B (1,2,3) |
| Guide planes: definition and preparation of anterior and posterior guide planes | 18 | Dr. Motasum | 7 | 22 (B,C) | 25. B (1,2,3) |
| Direct retainers: types components, requirements (support, retention, reciprocation) | 19 | Dr. Nadia | 7 | 22 (B,C) | 25. B (1,2,3) |

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| Maxillary major connectors | 20 | Dr. Nadia | 6 | 22 (B,C) | 25. B (1,2,3) |
| Mandibular major connectors and minor connectors | 21 | Dr. Nadia | 6 | 22 (B,C) | 25. B (1,2,3) |
| Principles of design of the tooth borne partial dentures | 22 | Dr. Nadia | 5 | 22 (B,C) | 25. B (1,2,3) |
| Principles of design of the tooth and tissue borne partial dentures, the need for stress breaking elements in such situations | 23 | Dr. Nadia | 10 | 22 (B,C) | 25. B (1,2,3) |
| Special trays. Final impressions and production of master casts. Surveying master casts | 24 | Dr. Bustani | 11,13 | 22 (C) | 25. B (1,2,3) |
| Wax block out. Duplication and production of refractory cast. Wax up, spruing and investing. burn out casting RPD | 25 | Dr. Bustani | 8 | 22 (C) | 25. B (1,2,3) |
| Metal try in and the need for the altered cast techniques | 26 | Dr. Bustani | 13 | 22 (B,C) | 25. B (1,2,3) |
| Jaw relation registration. Occlusion and setting of artificial teeth. | 27 | Dr. Bustani | 11 | 22 (C) | 25. B (1,2,3) |
| Processing, polishing and finishing | 28 | Dr. Bustani | 11 | 22 (C) | 25. B (1,2,3) |

21. Teaching Methods and Assignments:

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

- Class lectures (Uploaded on eLearning prior to each practical session), small group discussion for each uploaded lecture during the practical sessions , 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.

Duration: 28 lectures, 1 per week during the first and second semesters

Lectures/Practical Sessions: 1 lecture per week (a total of 28 hours).

22. Evaluation Methods and Course Requirements:

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

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

Dates: According to Registration Unit and the Examination committees.

Quizzes and Participation form portion of the assessment

- A) First exam : During the first semester 25%
- B) Second exam: During the second semester 25%
- C) Final exam at the end of the academic year 50%

23. Course Policies:**A- Attendance policies:**

- Attendance is mandatory for all lecture.
- 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.

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

UJ regulations regarding absence from exams will be applied.

C- Health and safety procedures:**D- Honesty policy regarding cheating, plagiarism, misbehavior:****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.

E- Grading policy:

First exam : During the first semester 25%

Second exam: During the second semester 25%

Final exam at the end of the academic year 50%

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

Lectures are uploaded through E-learning prior to the lecture to facilitate following the lecture easily.

24. Required equipment:

NA

25. References:

Recommended books, materials, and media:

Textbooks:

A) Complete Denture Prosthodontics:

1. 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, 13th ed (2013)
2. Treatment of edentulous patients, McCord, Smith and Grey, 2004 Elsevier Limited.
3. Golden, Treating the Complete Denture Patient, 2020, 1st ed, Wiley.

B) Partial Denture prosthodontics:

1. McCracken's Removable Partial Prosthodontics (Carr, McCracken's Removable Partial Prosthodontics) by Alan B. Carr, Glen P. McGivney, David T. Brown. Elsevier, 13th ed, 2015
2. A color Atlas of Removable Partial Dentures by Basker R.M., Heath J.R., Ralph, J.P. Wolfe Medical Publications Ltd, 1988.
3. Dental Laboratory Procedures. Removable Partial Dentures, Volume 3 (v. 3) (Hardcover) by Kenneth D. Rudd, Robert M. Morrow, Harold F. Eissmann

Handouts: According to the lecturer

26. Additional information:

Name of Course Coordinator: Rasha Alamoush Signature: Rasha Date: 10 Sep 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

