

1	Course title	Conservative Dentistry-4 (Practical)
2	Course number	1302420
3	Credit hours (theory, practical)	2 hrs (practical)
	Contact hours (theory, practical)	2 hrs/week (practical)
4	Prerequisites/corequisites	Conservative Dentistry-1, 2, 3
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 Conservative Dentistry
10	Level of course	Bachelor
11	Year of study and semester (s)	Fourth Year (first & second semester) 2019/2020
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.*

Coordinator: Dr Alaa Haddad

Office Hours: Mon 12-2

Phone Number: 06 5355000 Ext 23552

Email: [haddad.alaa@hotmail.com](mailto:haddad.alaa@hotmail.com)

#### 17. Other instructors:

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

Dr. Alaa Sabra, phone 23552 . email: [sabralolo@yahoo.com](mailto:sabralolo@yahoo.com)

Part-timers

## 18. Course Description:

*As stated in the approved study plan*

This course assists the student during the training and working on simulator to acquire skills necessary for the preparation of crowns and bridges and cast gold restorations. The student is given the opportunity to demonstrate understanding of the techniques in the preparation of teeth and laboratory work.

## 19. Course aims and outcomes:

### Aims:

The objectives of this course are:

- To improve the manual dexterity of the students in performing various intra-coronal and extra-coronal tooth preparations related to fixed prosthodontics.
- The students should be able to successfully prepare full coverage and partial coverage restoration on acrylic teeth in a clinically simulated setting.
- The students should learn to use the instruments and materials pertinent to fixed prosthodontics.
- To provide the students with the fundamental practical skills of fixed prosthodontics necessary to be able to deal with patients that needs indirect restoratives in a clinical setting.
- To provide the students with fundamentals for restoring endodontically treated teeth.
- To introduce the students to the laboratory steps in constructing indirect restorations.
- Use management and clinical self-evaluation skills in delivering clinical dental care.

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

- 1) Understand the biological, mechanical and aesthetic principles of tooth preparation for fixed prosthodontics
- 2) Be able to perform axial reduction and finish line according to theoretical concepts of preparation.
- 3) Be competent in different types of crown preparation; whether full metal, ceramometallic (PFM) or full ceramic crown.
- 4) Acquire clinical competency in anterior tooth preparation.
- 5) Discuss the different materials used in impression making and final cementation and the use of each one according to the clinical situation
- 6) Understand the importance of provisional restorations to prosthodontic therapy, as well as the different materials and methods used for their fabrication
- 7) Get introduced to the casting procedures and porcelain build up for porcelain fused to metal restorations
- 8) Consolidate the biological, mechanical and aesthetic principles of tooth preparation for fixed prosthodontics in different clinical scenarios
- 9) Troubleshoot the errors pertaining to inaccuracies in indirect restoratives construction
- 10) Recognize the requirements of a successful working cast made for fixed prosthodontics.  
Understand the different methods used for fabrication of working casts.

- 11) Recognize the different cements used for luting indirect restorations; understand their properties, and application for a successful cementation step. Ability to clinically handle different cements (mixing, working and application of luting agent)
- 12) Prepare various teeth for inlays and onlays
- 13) Perform prefabricated and cast posts on mounted extracted natural teeth
- 14) Use and apply the different techniques of impression making whether primary or final. Understand the clinical steps required for impression making. Recognize the errors that might result in a failed impression.
- 15) Successfully complete a wax up for a full coverage restoration based upon sound theoretical knowledge
- 16) Perform various provisional restorations using various techniques and materials
- 17) Understand the importance of a comprehensive treatment plan that considers various options for teeth replacement, teeth coverage and protection. In addition to the importance of consultation with other specialties, referral and team work.
- 18) Acquire the skill necessary for veneer preparation whilst understanding the basic concepts behind the different types of preparation. Compare and discuss the differences between veneers with preparation or without preparation.

## 20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Method	References
Introduction and instructions	<b>1</b>	Dr.Haddad,Dr.Alaa. PTs	<b>1</b>	N/A	<b>A1, A2</b>
Finish line and taper	<b>2</b>	Dr.Haddad,Dr.Alaa. PTs	<b>2</b>	Clinical task	<b>A1, A2</b>
Cast metal crown preparation L6	<b>3,4</b>	Dr.Haddad,Dr.Alaa. PTs	<b>3</b>	Clinical task	<b>A1, A2, B1-B3</b>
Cast metal crown preparation U6	<b>5,6</b>	Dr.Haddad,Dr.Alaa. PTs	<b>3</b>	Clinical task	<b>A1, A2, B1-B3</b>
PFM crown preparation U6	<b>7,8</b>	Dr.Haddad,Dr.Alaa. PTs	<b>3</b>	Clinical task	<b>A1, A2, B1-B3</b>
PFM crown preparation L6	<b>9</b>	Dr.Haddad,Dr.Alaa. PTs	<b>3</b>	Clinical task	<b>A1, A2, B1-B3</b>
PFM crown preparation U4	<b>10</b>	Dr.Haddad,Dr.Alaa. PTs	<b>3</b>	Clinical task	<b>A1, A2, B1-B3</b>
PFM crown preparation U1	<b>11</b>	Dr.Haddad,Dr.Alaa. PTs	<b>4</b>	Clinical task	<b>A1, A2, B1-B3</b>
All ceramic crown preparation U1	<b>12</b>	Dr.Haddad,Dr.Alaa. PTs	<b>4</b>	Clinical task	<b>A1, A2, B1-B3</b>
All ceramic crown preparation U3	<b>13</b>	Dr.Haddad,Dr.Alaa. PTs	<b>4</b>	Clinical task	<b>A1, A2, B1-B3</b>
Impressions, provisional and working cast tutorial	<b>14</b>	Dr.Haddad,Dr.Alaa. PTs	<b>5</b>	N/A	<b>A1, A2, B2</b>
Prefabricated posts	<b>15</b>	Dr.Haddad,Dr.Alaa. PTs	<b>13</b>	Clinical task	<b>A1, A2, B2</b>
Cast posts	<b>16</b>	Dr.Haddad,Dr.Alaa. PTs	<b>13</b>	Clinical task	<b>A1, A2, B2</b>
Primary impression making	<b>17</b>	Dr.Haddad,Dr.Alaa. PTs	<b>14</b>	N/A	<b>A1, A2, B2</b>

PFM bridge preparation L4-L6	<b>18</b>	Dr.Haddad,Dr.Alaa. PTs	<b>8</b>	Clinical task	<b>N/A</b>
Secondary impression making	<b>19</b>	Dr.Haddad,Dr.Alaa. PTs	<b>14</b>	QUIZ	<b>A1, A2, B2</b>
Wax up L5	<b>20</b>	Dr.Haddad,Dr.Alaa. PTs	<b>15</b>	Clinical task	<b>A1, A2, B2</b>
Provisional crowns	<b>21</b>	Dr.Haddad,Dr.Alaa. PTs	<b>6, 16</b>	Clinical task	<b>A1, A2, B2</b>
Provisional bridges	<b>22</b>	Dr.Haddad,Dr.Alaa. PTs	<b>6, 16</b>	Clinical task	<b>A1, A2, B2</b>
Working casts	<b>23</b>	Dr.Haddad,Dr.Alaa. PTs	<b>7, 9, 10</b>	QUIZ	<b>A1, A2, B2</b>
$\frac{3}{4}$ crown preparation U4	<b>24</b>	Dr.Haddad,Dr.Alaa. PTs	<b>12</b>	Clinical task	<b>A1, A2, B1-B3</b>
Onlay preparation L6	<b>25</b>	Dr.Haddad,Dr.Alaa. PTs	<b>12</b>	Clinical task	<b>A1, A2, B1-B3</b>
Veneer preparation	<b>26</b>	Dr.Haddad,Dr.Alaa. PTs	<b>18</b>	Clinical task	<b>A1, A2, B1-B3</b>
Delivery and cementation	<b>27</b>	Dr.Haddad,Dr.Alaa. PTs	<b>11</b>	QUIZ	<b>A1, A2, B2</b>
Free exercise	<b>28</b>	Dr.Haddad,Dr.Alaa. PTs	<b>8</b>	Clinical task	<b>N/A</b>

## 21. Teaching Methods and Assignments:

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

**Duration:** 30 weeks in 1<sup>st</sup> and 2<sup>nd</sup> semesters, 60 hours in total.

**Practical sessions:** 2-hour session every week (including final practical exams).

## 22. Evaluation Methods and Course Requirements:

- The system will be based on the evaluation of the quantity as well as the quality of the work
- **60 marks** will be calculated from the daily projects and quizzes. Each project or quiz will be graded out of 10 marks.
- **40 marks** will be the final exam.

### Quizzes:

- During the course, students will be given 3 predetermined quizzes of 5-10 minutes each.
- Pop-quizzes are also given to evaluate students' preparation for the lab.
- The quiz will evaluate the knowledge of the students in fixed prosthodontics, especially in the aspects that are directly related to the clinical work.
- The quiz can be in the form of MCQs, short essay questions, or short questions about a diagram or a photo.
- The quizzes will be held after 5 minutes from the beginning of the lab, to allow for all students to be present. Any student who comes after the end of the quiz will be considered absent for the quiz and he/she will lose the allocated marks of that quiz.

**One mark** will be deducted from the 60 marks for the daily projects, each time these violations are committed: Coming late more than 5 minutes to the start time of the lab. Leaving the allocated work place dirty or untidy. Failing to get ready for the lab; either bringing the required materials, or preparing necessary pre-lab reading

Students get the chance at the end of the course (in the free exercise sessions) to repeat the **lowest 2 grades** they achieved throughout the course. The marks that cannot be repeated are: quizzes, zeros, provisionals and the wax up exercise!

First semester	
1	Full Metal crown L6
2	Full Metal crown U6
3	PFM crown L6
4	PFM crown U6
5	PFM crown U4
6	All ceramic crown U1
7	Quiz 1
Second semester	
8	Bridge preparation U3-U5
9	Wax-Up for U4
10	Provisional bridge U 3 4 5

11	Cast post preparation
12	Prefabricated post preparation and cementation
13	Onlay Preparation
14	Veneer Preparation
15	Quiz 2

### 23. Course Policies:

#### A- Attendance policies:

Lab attendance is mandatory. However, 15% allowed absence is granted for students by the university law. In case of student absence (without valid excuse) from a certain lab, the student will not be allowed to submit the work designated to that week's task at a later time, and the mark of that requirement will be considered zero.

#### 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:

Students are obliged to follow the safety rules as stated in their clinical guide, handed to them and signed at the beginning of each semester.

#### D- Honesty policy regarding cheating, plagiarism, misbehavior:

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

#### E- Grading policy:

60% of the grade is granted to the yearly requirement. 40% of the grade is granted to the final exams.

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

### 24. Required equipment:

**Instruments and materials (needed for all labs):** Basic examination set (mirror, cotton pliers and probe), Periodontal probe, Maxillary and mandibular phantom jaws, Acrylic teeth (the tooth to be prepared in that session+ the teeth mesial and distal to that tooth). Teeth have to be fixed to the jaws using screws; fixing teeth with wax or superglue is not acceptable. Diamond cutting burs (tapered chamfer, tapered shoulder, needle, and wheel burs). Natural anterior and posterior teeth (root canal treated)

### 25. References:

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

- 1) Rosenstiel FS, Land MF, Fujimoto J. Contemporary fixed prosthodontics. St Louis: Mosby.
- 2) Shillingburg HT, Hobo S, Whitset LD. Fundamentals of fixed prosthodontics. Quintessence, Chicago

B- Recommended books, materials, and media:

- 1) Crowns and Other extra coronal restorations, BDJ Book, Nature publishing  
<http://www.nature.com/bdj/series/index.html#pagelink-crowns>.
- 2) Live demonstration by the instructors
- 3) Videos of tooth preparation

**26. Additional information:**

Name of Course Coordinator: -----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