

## COURSE PLAN

### FIRST: BASIC INFORMATION

#### College

College : Irbid College  
 Department : Medical Department

#### Course

Course Title : Fixed Dental Prosthesis Practice 1  
 Course Code : **020813164**  
 Credit Hours : 2 (0 Theoretical, 2 Practical)  
 Prerequisite : **020813162\***  
 \*Co-requisite

#### Instructor

Name :  
 Office No. :  
 Tel (Ext) :  
 Email :  
 Office Hours :

Building	Day	Start Time	End Time	Room No.

#### Text Book

Title : Dental laboratory technology: fixed and special prosthodontic and orthodontic appliances. Dept. of the Air Force, Headquarters US Air Force, 1999.

#### References

1. Dental laboratory technology: fixed and special prosthodontic and orthodontic appliances. Dept. of the Air Force, Headquarters US Air Force, 1999.
2. Shillingburg, Herbert T. (and others). Fundamentals of Fixed Prosthodontics. 3rd ed. Chicago: Quintessence, 1997.
3. Murray, H.V. and Sludre, T.B. Fixed Restorative Techniques (Dental Laboratory Technology Manuals) Rev. ed. University of North Carolina Press, 1989.

### SECOND: PROFESSIONAL INFORMATION

#### COURSE DESCRIPTION

This course covers the practice of fixed dental prosthetics. This course provides a method of using materials to make fixed dental prostheses and manufactures single crowns for fixed dental prosthetics.

#### COURSE OBJECTIVES

The objectives of this course are to enable the student to do the following:

- **Design** the manufacturing process of fixed dental prostheses.
- **Make** impressions and models for making fixed dental prostheses
- **Make** wax pattern to make a fixed dental prosthesis
- **Perform the casting** for making fixed dental prostheses
- **Perform** grinding and polishing to make fixed dental prostheses
- **Make** temporary single crown

### COURSE LEARNING OUTCOMES

By the end of the course, the students will be able to:

- CLO1. Design the manufacturing process for fixed dental prostheses.  
 CLO2. Make work models for the manufacture of fixed prostheses  
 CLO3. Make wax patterns for the manufacture of fixed dental prostheses  
 CLO4. **Perform** the casting process for manufacturing a fixed dental prosthesis  
 CLO5. **Perform** grinding and polishing process of fixed dental prostheses  
 CLO6. **Make** temporary single crown

### COURSE SYLLABUS

Week	Unit	Content	Related LO and Reference (Chapter)	Proposed assignments
1	Metal Single Crown Manufacturing Process	<ul style="list-style-type: none"> <li>• Introduction of metal crown manufacturing method</li> <li>• Types of metal crown manufacturing method</li> <li>• Manufacturing process of metal crown</li> </ul>	CLO1	
2	Impression and Model	<ul style="list-style-type: none"> <li>• Impression body use method</li> <li>• Dental stone use method</li> </ul>	CLO2	
3	Making of Working Cast	<ul style="list-style-type: none"> <li>• Method of use of model trimming machine</li> <li>• Manufacturing of working cast</li> </ul>	CLO2	
4	Die Trimming	<ul style="list-style-type: none"> <li>• Cutting of die from model</li> <li>• Finish line ditching</li> <li>• Application of die spacer</li> </ul>	CLO2	
5	Body Wax-up	<ul style="list-style-type: none"> <li>• Waxing proximal cervical contact area</li> <li>• Waxing of the teeth body</li> <li>• Body contouring</li> </ul>	CLO3	
6	Wax-up	<ul style="list-style-type: none"> <li>• Waxing of the occlusal surface</li> <li>• Groove forming</li> <li>• Trimming cervical margin</li> </ul>	CLO3	
7	Sprue	<ul style="list-style-type: none"> <li>• Sprue material usage method</li> <li>• Sprue position setting method</li> <li>• Sprue connection method</li> </ul>	CLO4	



Week	Unit	Content	Related LO and Reference (Chapter)	Proposed assignments
8	<b>Mid-term Exam</b>			
9	Investing	<ul style="list-style-type: none"> <li>Investing material usage method</li> <li>Investing machine use method</li> <li>Investing method</li> </ul>	CLO4	
10	Burn out	<ul style="list-style-type: none"> <li>Electric furnace use method</li> <li>Burn out method</li> </ul>	CLO4	
11	Casting	<ul style="list-style-type: none"> <li>Method of using metal melting machine</li> <li>Method of using centrifugal casting machine</li> <li>Casting cooling method</li> </ul>	CLO4	
12	Grinding	<ul style="list-style-type: none"> <li>Grinding material and machine use method</li> <li>Grinding method</li> </ul>	CLO5	
13	Polishing	<ul style="list-style-type: none"> <li>Polishing material and machine use method</li> <li>Polishing method</li> </ul>	CLO5	
14	Temporary crown	<ul style="list-style-type: none"> <li>Method of using resin for temporary crown</li> <li>Resin temporary crown manufacturing</li> </ul>	CLO6	
15	Temporary crown polishing	<ul style="list-style-type: none"> <li>Method of using the resin polishing material</li> <li>Polishing of resin temporary crowns</li> </ul>	CLO6	
16	<b>Final Exam</b>			

### COURSE LEARNING RESOURCES

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### ONLINE RESOURCES

<a href="http://www.iti.org">www.iti.org</a> <a href="http://www.nature.com">www.nature.com</a>
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### ASSESSMANT TOOLS

grading distribution table evaluation activity
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Homework	5
Report	5
Queses	10
mid term exam	20
Experience/Attendance/Participation	10
final exam	50
Total	100%

### THIRD: COURSE RULES

#### ATTENDANCE RULES

Attendance and participation are extremely important, and the usual University rules will apply. Attendance will be recorded for each class. Absence of 10% will result in a first written warning. Absence of 15% of the course will result in a second warning. Absence of 20% or more will result in forfeiting the course and the student will not be permitted to attend the final examination. Should a student encounter any special circumstances (i.e. medical or personal), he/she is encouraged to discuss this with the instructor and written proof will be required to delete any absences from his/her attendance records.

#### GRADING SYSTEM

##### Example:

Grade	Points
<b>FAILED</b>	<b>0-49</b>
<b>PASSED</b>	<b>50-100</b>

#### REMARKS

{The instructor can add any comments and directives such as the attendance policy and topics related to ethics }

#### COURSE COORDINATOR

**Course Coordinator:**

**Signature:**

**Date:**

**Department Head:**

**Signature:**

**Date:**