COURSE PLAN

FIRST: BASIC INFORMATION

College	
College	: Irbid College
Department	: Medical Department
Course	
Course Title	: Dental Ceramics Practice 1
Course Code	: 020813265
Credit Hours	: 2 (0 Theoretical, 2 Practical)
Prerequisite	: 020813261* *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. Dept. of the Air Force, Headquarters US Air Force, 1999.

References

1. Graber, Thomas M., and Vanarsdall, Robert L., Jr., eds. Orthodontics: Current Principles and Techniques.4th ed. St. Louis: Elsevier Mosby, 2005.
2. Dental laboratory technology: fixed and special prosthodontic and orthodontic appliances. Dept. of the Air Force, Headquarters US Air Force, 1999.
3. Proffit, William R. (and others). Contemporary Orthodontics.2d ed. St. Louis: Mosby-Year Book, 1993.

SECOND: PROFESSIONAL INFORMATION

COURSE DESCRIPTION

This course covers the practice of porcelain fused to metal (PFM) crown. It provides a method of using materials used for manufacturing PFM crown, a method of manufacturing metal copings, and a method of processing opaque.

COURSE OBJECTIVES

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

- Design the manufacturing process of porcelain fused to metal(PFM) crown.
- Make impressions and models for making PFM crown.
- Make wax pattern to make a coping for PFM crown.
- Perform casting for making coping crown for PFM crown.
- Perform the surface treatment and heat treatment of coping crown for PFM crown.

COURSE LEARNING OUTCOMES

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

CLO1. Design the manufacturing process of porcelain fused to metal(PFM) crown
CLO2. Make impressions and models for making PFM crown
CLO3. Make a wax pattern to make a coping for PFM crown
CLO4. Perform casting for making coping crown for PFM crown
CLO5. Perform the surface treatment and heat treatment of coping crown for PFM crown
CLO6. Perform the opaque treatment of coping crown for PFM crown

COURSE SYLLABUS

Week	Unit	Content	Related LO and Reference (Chapter)	Proposed assignments
1	Porcelain Fused to Metal(PFM) Crown	• Introduction to the manufacturing process of Porcelain Fused to Metal (PFM) Crown • Materials used in the manufacturing of PFM crowns	CLO1	
2	Impression and Model	• Impression body use method • Dental stone use method	CLO2	
3	Making of Working Cast	• Method of use of model trimming machine • Manufacturing of working cast	CLO2	
4	Die Trimming	• Cutting of die from model • Finish line ditching • Application of die spacer	CLO2	
5	Full Crown Wax-up	• Anterior tooth and posterior tooth full crown wax up	CLO3	
6	Wax Crown Cut Back	• Cut back process of wax full crown	CLO3	
7	Coping Crown Design	• Coping crown design for PFM • Manufacture of PFM coping wax crown	CLO3	
8	**Midterm Exam**			
9	Sprue	• Sprue material usage method • Sprue position setting method	CLO4	

Week	Unit	Content	Related LO and Reference (Chapter)	Proposed assignments
		• Sprue connection method		
10	Investing	• Investing material usage method • Investing machine use method • Investing method	CLO4	
11	Burn out	• Electric furnace use method • Burn out method	CLO4	
12	Casting	• Method of using metal melting machine • Method of using centrifugal casting machine • Casting cooling method	CLO4	
13	Metal Surface Treatment	• Coping crown surface treatment method • Method of using of surface treatment machine	CLO5	
14	Heat Treatment	• Heat treatment(degassing) method for coping crowns • Method of using heat treatment machine	CLO5	
15	Opaque treatment	• Steps and methods of opaque treatment • Method of using ceramic electric furnace	CLO6	
16	**Final Exam**			

COURSE LEARNING RESOURCES

ONLINE RESOURCES

www.ncbi.nih.gov
www.dentallearning.org
www.padental.org

ASSESSMANT TOOLS

grading distribution table evaluation activity	
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
FAILED	0-49
PASSED	50-100

REMARKS

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

COURSE COORDINATOR

Course Coordinator:	**Department Head:**
Signature:	**Signature:**
Date:	**Date:**