

COURSE PLAN

FIRST: BASIC INFORMATION

College

College : Irbid College
 Department : Medical Department

Course

Course Title : Dental Ceramics
 Course Code : **020813261**
 Credit Hours : 2 (2 Theoretical, 0 Practical)
 Prerequisite :

Instructor

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

Building	Day	Start Time	End Time	Room No.

Text Book

Title Graber, Thomas M., and Vanarsdall, Robert L., Jr., eds. Orthodontics: Current Principles and Techniques.4th ed. St. Louis: Elsevier Mosby, 2005.

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 theory of dental ceramic and porcelain fused to metal crown (PFM). This course provides the definition and types of dental ceramic and PFM, the materials used to make it, and the manufacturing method.

COURSE OBJECTIVES

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

- Explain the theoretical background of dental ceramics
- Explain the bonding mechanism of dental ceramics
- Explain the types of ceramic dental prostheses
- Explain the manufacturing process of ceramic dental prostheses

COURSE LEARNING OUTCOMES

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

- CLO1. Explain the theoretical background of dental ceramics
- CLO2. Explain the bonding mechanism of dental ceramics
- CLO3. Explain the using method of the ceramic furnace.
- CLO4. Explain the types of ceramic dental prostheses
- CLO5. Explain the manufacturing process of ceramic dental prostheses
- CLO6. Explain the esthetics of ceramic dental prostheses

COURSE SYLLABUS

Week	Unit	Content	Related LO and Reference (Chapter)	Proposed assignments
1	Dental Ceramics	<ul style="list-style-type: none"> • Introduction of dental ceramic • Types of dental ceramic • Properties of dental ceramic 	CLO1	
2	Dental Ceramics of Properties	<ul style="list-style-type: none"> • Thermal properties of ceramics • Chemical properties of ceramics • Mechanical properties of ceramics 	CLO1	
3	Ceramic Bonding Mechanism	<ul style="list-style-type: none"> • Introduction of ceramic bonding mechanism • Types of ceramic bonding mechanism • Properties of ceramic bonding mechanism 	CLO2	
4	Ceramic to Metal Bonding	<ul style="list-style-type: none"> • Ceramic-metal bonding mechanism • Metal surface treatment 	CLO2	
5	Ceramic Furnace	<ul style="list-style-type: none"> • Introduction of ceramic furnace • Types of ceramic furnace • Method of use of ceramic furnace 	CLO3	
6	Ceramic Dental Prosthetics	<ul style="list-style-type: none"> • Introduction of ceramic dental prosthetics • Types of ceramic dental prosthetics • Ceramic dental prosthesis manufacturing process 	CLO4	
7	Aesthetics of Ceramic Dental Prosthetics	<ul style="list-style-type: none"> • Shades of ceramic dental prosthetics • Color of ceramic dental prosthetics • Aesthetics of ceramic dental prosthetics 	CLO6	

Week	Unit	Content	Related LO and Reference (Chapter)	Proposed assignments
8	Midterm Exam			
9	Porcelain to Fused Metal(PFM) Crown	<ul style="list-style-type: none"> • Introduction of porcelain to fused metal crown • Properties of porcelain to fused metal crowns 	CLO4	
10	Manufacturing Process of PFM	<ul style="list-style-type: none"> • Structure of a porcelain to fused metal crown • Coping design of porcelain to fused metal crowns • Manufacturing method of porcelain to fused metal crown 	CLO5	
11	Aesthetics of PFM	<ul style="list-style-type: none"> • Introduction to Aesthetics of PFM • Color reproducibility of PFM • Method of color reproduction of PFM 	CLO6	
12	All Ceramics Crown	<ul style="list-style-type: none"> • Introduction of porcelain to fused metal crown • Properties of porcelain to fused metal crowns 	CLO4	
13	Manufacturing Process of All Ceramic Crown	<ul style="list-style-type: none"> • Design of all ceramics crown • Manufacturing method of all ceramics crown 	CLO5	
14	Aesthetics of all ceramics	<ul style="list-style-type: none"> • Introduction to Aesthetics of all ceramics crown • Color reproducibility of all ceramics crown • Method of color reproduction of all ceramics crown 	CLO6	
15	Other Ceramics Prostheses	<ul style="list-style-type: none"> • Veneer ceramic prostheses • Laminate ceramic prostheses 	CLO4	
16	Final Exam			

COURSE LEARNING RESOURCES

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ONLINE RESOURCES

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

ASSESSMENT 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:
Signature:
Date:

Department Head:
Signature:
Date: