

COURSE PLAN

FIRST: BASIC INFORMATION

College

College : Irbid College
 Department : Medical Department

Course

Course Title : Dental CAM Practice
 Course Code : **020813264**
 Credit Hours : 2 (0 Theoretical, 2 Practical)
 Prerequisite : **020813262***
 *Co-requisite

Instructor

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

Building	Day	Start Time	End Time	Room No.

Text Book

Title : Rekow D (1987), "Computer-aided design and manufacturing in dentistry: a review of the state of the art", J Prosthet Dent, 58 (4): 512–516, doi:10.1016/0022-3913(87)90285-X, PMID 3312586.

References

1. Davidowitz G, Kotick PG. (2011), "The use of CAD/CAM in dentistry.", Dent Clin North Am, 55 (3): 559–570, doi:10.1016/j.cden.2011.02.011, PMID 21726690.
2. Rekow D (1987), "Computer-aided design and manufacturing in dentistry: a review of the state of the art", J Prosthet Dent, 58 (4): 512–516, doi:10.1016/0022-3913(87)90285-X, PMID 3312586.
3. Oen, Kay T; Veitz-Keenan, Analia; Spivakovsky, Silvia; Wong, Y Jo; Bakarman, Eman; Yip, Julie (April 9, 2014). "CAD/CAM versus traditional indirect methods in the fabrication of inlays, onlays, and crowns". Cochrane Database of Systematic Reviews. doi:10.1002/14651858.cd011063. ISSN 1465-1858.
4. a b c d e Edelhoff, D.; Schweiger, J.; Beuer, F. (May 2008). "Digital dentistry: an overview of recent developments for CAD/CAM generated restorations". British Dental Journal. 204 (9): 505–511. doi:10.1038/sj.bdj.2008.350. ISSN 1476-5373. PMID 18469768.

SECOND: PROFESSIONAL INFORMATION

COURSE DESCRIPTION

This course covers methods using dental CAM. It includes the usage of dental CAM and the manufacturing method of dental prosthesis designed with CAD.

COURSE OBJECTIVES

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

- Explain the dental CAM system.
- Produce ceramic prosthetics with CAD files
- Perform the coloring of the ceramic crown
- Perform the sintering of the ceramic crown
- Perform the ceramic crown glazing and stains

COURSE LEARNING OUTCOMES

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

- CLO1. Explain the dental CAM system
 CLO2. Produce ceramic prosthetics with CAD files
 CLO3. Perform the coloring of the ceramic crown
 CLO4. Perform the sintering of the ceramic crown
 CLO5. Perform the ceramic crown glazing and stains
 CLO6. Make dental prosthetics using a 3D printer

COURSE SYLLABUS

Week	Unit	Content	Related LO and Reference (Chapter)	Proposed assignments
1	Dental CAM	<ul style="list-style-type: none"> • Introduction of dental CAM • Types of dental CAM • Dental CAM processing method 	CLO1	
2	Anterior single Ceramics Crown Milling	<ul style="list-style-type: none"> • Material setting processing method • Milling processing method 	CLO2	
3	Coloring	<ul style="list-style-type: none"> • Shape correction of ceramic crown • Coloring of ceramic crown 	CLO3	
4	Sintering	<ul style="list-style-type: none"> • Drying of ceramic crowns • Sintering of ceramic crowns 	CLO4	
5	Adaptation	<ul style="list-style-type: none"> • Adaptation of ceramic crowns 	CLO4	
6	Glazing and Stain	<ul style="list-style-type: none"> • Shade guide of using method. • Glazing and stain 	CLO4	
7	Posterior Single Ceramics Crown Milling	<ul style="list-style-type: none"> • Material setting processing method • Milling processing method 	CLO4	



Week	Unit	Content	Related LO and Reference (Chapter)	Proposed assignments
8	Midterm Exam			
9	Crown Shape Correction	<ul style="list-style-type: none"> • 1st crown shape correction 	CLO4	
10	Coloring	<ul style="list-style-type: none"> • Shape correction of ceramic crown • Coloring of ceramic crown 	CLO4	
11	Sintering	<ul style="list-style-type: none"> • Drying of ceramic crowns • Sintering of ceramic crowns 	CLO4	
12	Adaptation	<ul style="list-style-type: none"> • Adaptation of ceramic crowns 	CLO4	
13	Glazing and Stain	<ul style="list-style-type: none"> • Shade guide of using method. • Glazing and stain 	CLO4	
14	Polymer Crown 3D Printing	<ul style="list-style-type: none"> • Introduction of 3D printing • Use method of 3D printing. • 3D printing setting 	CLO4	
15	Polymer Crown Grinding and Polishing	<ul style="list-style-type: none"> • Polymer crown supporter removal • Light curing of polymer crowns • Polymer crown polishing 	CLO5	
16	Final Exam			

COURSE LEARNING RESOURCES

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ONLINE RESOURCES

www.benco.com www.ocdentalacademy.com www.pattersondental.com
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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:
Signature:
Date:

Department Head:
Signature:
Date: