

## COURSE PLAN

### FIRST: BASIC INFORMATION

#### College

College : Irbid College  
 Department : Medical Department

#### Course

Course Title : Orthodontics Practice 2  
 Course Code : **020813272**  
 Credit Hours : 1 (0 Theoretical, 1 Practical)  
 Prerequisite : **020813273\***  
 \*Co-requisite

#### Instructor

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

Building	Day	Start Time	End Time	Room No.

#### Text Book

Title Adams, C.P. and Kerr, W. J. S. The design, construction, and use of removable orthodontic appliances. London; Boston: Butterworth-Heinemann, 1990.

#### References

1. Graber, Thomas M., and Vanarsdall, Robert L., Jr., eds. Orthodontics: Current Principles and Techniques. 4<sup>th</sup> ed. St. Louis: Elsevier Mosby, 2005.
2. Void, JD Dental laboratory technology: fixed and special prosthodontic and orthodontic appliances. Dept. of the Air Force, Headquarters US Air Force, 1999.
3. Profit, William R. (and others). Contemporary Orthodontics. 2d ed. St. Louis: Mosby-Year Book, 1993.
4. Adams, C.P. and Kerr, W. J. S. The design, construction, and use of removable orthodontic appliances. London; Boston: Butterworth-Heinemann, 1990.

### SECOND: PROFESSIONAL INFORMATION

#### COURSE DESCRIPTION

This course covers the practice of digital orthodontic appliances. It provides the manufacturing process of orthodontic appliance for digital orthodontic treatment

#### COURSE OBJECTIVES



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

- Explain the **making process** of digital orthodontic
- **Perform** digital orthodontic data processing
- **Make** a digital orthodontic of **set up model**
- **Make clear aligner with digital method**
- **Make splint with digital method**

### COURSE LEARNING OUTCOMES

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

- CLO1. Explain the making process of digital orthodontic
- CLO2. **Perform** digital orthodontic data processing
- CLO3. Make a digital orthodontic of **set up model**
- CLO4. Make clear aligner with digital method
- CLO5. Make splint with digital method

### COURSE SYLLABUS

Week	Unit	Content	Related LO and Reference (Chapter)	Proposed assignments
1	Dental Digital Orthodontics	<ul style="list-style-type: none"> <li>• Indications for dental digital orthodontic</li> <li>• Composition of dental digital orthodontics</li> </ul>	CLO1	
2	Digital Orthodontics Diagnostic Model	<ul style="list-style-type: none"> <li>• Order model form of digital orthodontics</li> </ul>	CLO2	
3	Digital Orthodontics Diagnostic Model	<ul style="list-style-type: none"> <li>• Digital orthodontic diagnostic data</li> </ul>	CLO2	
4	Diagnostic Model Analysis	<ul style="list-style-type: none"> <li>• Digital orthodontic diagnostic data analysis</li> </ul>	CLO2	
5	Diagnostic Model 3D printing	<ul style="list-style-type: none"> <li>• Digital orthodontic diagnostic model 3D printing</li> </ul>	CLO2	
6	Segment a Model	<ul style="list-style-type: none"> <li>• CT file merging analysis</li> <li>• Separate teeth analysis</li> </ul>	CLO2	
7	Virtual Setup	<ul style="list-style-type: none"> <li>• Virtual set up, teeth position movement, root length and angle setting</li> <li>• Virtual articulator</li> </ul>	CLO2	
<b>8</b>	<b>Midterm Exam</b>			
9	Setup Model 3D printing	<ul style="list-style-type: none"> <li>• Set up model 3D printing</li> </ul>	CLO3	
10	Clear Aligner	<ul style="list-style-type: none"> <li>• Producing of clear aligner using vacuum former(omnivac)</li> <li>• Grinding and polishing</li> </ul>	CLO4	



Week	Unit	Content	Related LO and Reference (Chapter)	Proposed assignments
11	Splint Model	<ul style="list-style-type: none"> <li>• Appliance select, <b>arch setting, materials setting</b></li> <li>• Scan and 3D model editing</li> </ul>	CLO3	
12	Splint Design	<ul style="list-style-type: none"> <li>• Occlusion setting</li> <li>• Create splint and design</li> <li>• Virtual set up</li> </ul>	CLO3	
13	Splint 3D printing	<ul style="list-style-type: none"> <li>• Splint 3D printing</li> </ul>	CLO5	
14	Splint Grinding	<ul style="list-style-type: none"> <li>• Splint grinding</li> </ul>	CLO5	
15	Splint Polishing	<ul style="list-style-type: none"> <li>• Splint polishing</li> </ul>	CLO5	
16	<b>Final Exam</b>			

### COURSE LEARNING RESOURCES

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### ONLINE RESOURCES

<a href="http://www.ajodo.org">www.ajodo.org</a> <a href="http://www.jco-online.com">www.jco-online.com</a>
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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: