

Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Department of Applied Dental Sciences
Summer Semester
2016/2017
Course syllabus

Course Information	
Course Title	Orthodontics 1
Course code	TDEN341
Prerequisite	TDEN 207
Credit hours	1 credit Hours

Lecturer information	
Lecturer	Dr. Noor Al Mortadi
Office Location	Faculty of Applied Medical Sciences, Applied Dental Sciences Department
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Office Hours	
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Teaching Assistant(s)	Supervisors at the Dental Technology Laboratory

Course Description
<p>This is an undergraduate third year students course. The theoretical part is designed to provide the students with the sufficient knowledge to be able to communicate with the orthodontic specialist, understand the treatment being rendered and the rationale behind it. The students will have the opportunity to gain a thorough knowledge related to the characteristics of normal occlusion, different types of skeletal and occlusal anomalies and how to describe them using different classification systems. In addition, the course will teach the students the various orthodontic records. The course also allows the students to recognize different orthodontic appliances and know their proper management. A large emphasis of this course will be on the removable orthodontic appliances: definition, materials used in construction, mode of action, indications, contraindications, limitations, proper design, various components, anchorage requirements, activation and clinical management.</p> <p>The practical part aims toward providing the student with the basic technical knowledge and manual skills to fabricate various removable orthodontics appliances.</p>
Course Objectives
<ol style="list-style-type: none"> 1- Introduce the students to the basic aspects and concepts of orthodontics. 2- Provide the students with a solid theoretical background regarding normal occlusion, different malocclusions, classification systems and rationale behind orthodontic treatment. 3- Explain the different types of tooth movements produced by orthodontic appliances.

- 4- Be able to recognize and understand the different types of orthodontic appliances and their mode of action.
- 5- Understand all the steps needed to conduct a proper clinical examination and detailed knowledge of diagnostic records needed in the orthodontic office.
- 6- Provide the student with a sufficient and thorough knowledge needed to understand and construct removable orthodontic appliances.
- 7- To train the student to handle the equipments and materials used in the construction of removable orthodontic appliance in the proper way.
- 8- Develop the manual skills necessary for the construction of various components of removable orthodontic appliances.

Textbook and Supporting Material	
I- Text Book	
Title	Removable Orthodontic Appliances
Author(s)	Isaacson, K. G.;Reed, R. T.;Muir, J. D.
Publisher	Butterworth-Heinemann
Year	2002
Edition	1st edition
II- Other References	<ul style="list-style-type: none"> 1- Laura Mitchell. An Introduction to Orthodontics. Oxford University Press, 2007, 3rd Edition. 2- C. Philip Adams; W. John S. Kerr. The design, construction and uses of removable orthodontic appliances, Butterworth-Heinemann, 1991, 6th Edition. 3- Handouts given by the lecturer.

Teaching & Learning Methods
<ul style="list-style-type: none"> ➤ <u>Theoretical part:</u> ➤ There will be 1 lecture each week. Duration: 11 weeks, including 10 lectures and mid Term exam. ➤ Teaching methods: <ul style="list-style-type: none"> 1. Classroom lectures 2. Textbook reading assignments 3. Class discussion
Assessment Policy
<ul style="list-style-type: none"> ➤ Satisfactory completion of this course requires: <ul style="list-style-type: none"> 1. Attendance of lectures and laboratory sessions.

- Attendance is obligatory. More than 10% of absence from the lecture or laboratory sessions will deprive the student from taking the final examination (JUST regulations). Attendance is checked every lecture and lab.
2. A minimal passing grade of 50% must be achieved of the combined grades of the didactic and laboratory components.

Modes of assessment		
The students will be evaluated by their performance during the course. The total grade is 100%, and it is distributed as follows:		
Assessment	Expected due date	Percentage
Mid Term Exam (Theory)	6 th Week	50%
Final (Theory)	To Be Announced	40%
Quizzes and Assignment	During the semester	10%
Learning Objectives: Upon successful completion of this course, students will be able to:		
Related objective(s)		References
1.2	Understand all the basic knowledge related to the field of orthodontics, features of normal occlusion, features of different malocclusions and the classification systems.	1,8 and handouts
3,4	Recognize and understand the different types of orthodontic movements and orthodontic appliances used to produce them.	1,2 and handouts
5	Learn brief knowledge of clinical examination and diagnostic records needed prior or during orthodontic treatment	Handouts
6	Understand the detailed knowledge related to removable orthodontic appliances.	1,3,4,5,6 and handouts
7,8	Satisfactorily complete a series of wire bending exercises needed to construct the various retentive and active components of removable orthodontic appliances as well as the acrylic baseplates.	3,4,5,6 and handouts

Additional Notes
<p>1- Attendance Policy: To receive the maximum benefit from this course, students must attend all the lecture and laboratory sessions. JUST policy requires the faculty member to assign ZERO grade (35) if a student miss more than 10% of the classes without an excuse.</p>

<p>2- Policy On Make-Ups:</p> <ul style="list-style-type: none"> ➤ Excused absences that are unavoidable will be offered an alternate first, second or final exam with different questions. ➤ No make-up exams will be given for unexcused absences.
<p>3- Out of respect for the lecturer and lab supervisors, it is kindly asked that students' attention is on the lecture being presented or demonstration being held. Cell phones or any other electronic devices are not to be used in the classroom.</p> <ul style="list-style-type: none"> ➤ Making any kind of disruption and (side-talks) will affect you negatively.
<p>4- Questions are welcome during lecture and students are highly encouraged to participate in the classes.</p>
<p>5- Cheating during exam will result in dismissal from the exam hall and the student will be penalized according to JUST regulations.</p>
<p>6- Course Changes:</p> <ul style="list-style-type: none"> ➤ Information contained in this course outline is correct at the time of publication. ➤ Content of the courses is revised on an ongoing basis to ensure relevance to changing educational, employment needs. ➤ The course instructor reserves the right to add or delete material from courses and will endeavor to provide notice of changes to students as soon as possible. ➤ The timetable may also be revised accommodating to holidays and unexpected off days.
<p>7- Feedback:</p> <p>Concerns or complaints should be expressed in the first instance to the course instructor. If no resolution is forthcoming then the issue should be brought to the attention of the Department Chair and if still unresolved to the Dean.</p>

		Course content (Theoretical)	
Week	Lecture	Topics	Chapter in textbook
1	1	Introduction to the course and distribution of the syllabus	-
2	2	Introduction to Orthodontics	Chapter 1 and handouts
3	3	Classifications of Malocclusion and Rationale of Orthodontic Treatment	Chapter 1 and 2 (Mitchell book) and handouts

4	4	Types of Orthodontic Appliances and Orthodontic Tooth Movements	Chapter 2 and handouts
5	5	Removable appliances: Principles and design	Chapter 3 and handouts
6	Mid Term Exam		
7	6	Removable Appliances/Retentive components	Chapter 4 and handouts
8	7	Removable Appliances/Active Components I	Chapter 3 and handouts
9	8	Removable Appliances/Active Components II	Chapter 3 and handouts
10	9	Removable Appliances/Bite Planes	Chapter 5 and handouts
11	10	Anchorage	Chapter 6 and handouts