

Jordan University of Science and Technology Faculty of Applied Medical Sciences Dental Technology Department

TDEN344 Orthodontics (2) - JNQF Level: 6

Second Semester 2022-2023

Course Catalog

1 Credit Hours. This course is for undergraduate third year students. This theoretical part is designed to provide the students with the sufficient knowledge and theoretical background relevant to technical and clinical aspects of the types of orthodontics appliances and the rationale of using the various orthodontic appliances.

Text Book						
Title	Title Orthodontic Retainers and Removable Appliances					
Author(s)	Luther, F; Nelson-Moon Z					
Edition	1st Edition					
Short Name	Reference 1					
Other Information	Butterworth-Heinemann, 2012					

Course References

Short name	Book name	Author(s)	Edition	Other Information
Reference 2	An Introduction to Orthodontics	Laura Mitchell	3rd Edition	Oxford, University Press, 2007
Reference 3	An Introduction to Orthodontics	Laura Mitchell	2nd Edition	Oxford, University Press, 2001
Reference 4	The design, construction and uses of removable orthodontic appliances	C. Philip Adams; W. John S. Kerr.	6th Edition	Butterworth- Heinemann, 1991
Reference 5	Removable Orthodontic Appliances	lsaacson K. G; Reed R. T; Muir J. D	1st Edition	Butterworth- Heinemann, 2002

Instructor				
Name	Dr. Noor Al-Mortadi			
Office Location	L2 -18			

Office Hours	Sun : 08:00 - 09:00 Mon : 08:30 - 09:30
	Tue : 09:00 - 12:00
	Tue : 13:30 - 15:30
	Thu : 13:30 - 15:30
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Class Schedule & Room

Section 1:

Lecture Time: Thu : 11:30 - 12:30 Room: M4201

Section 2:

Lecture Time: Mon : 08:30 - 09:30 Room: LAB

Prerequisites						
Line Number	Line Number Course Name Prerequisite Type					
513412	TDEN341 Orthodontics (1)	Prerequisite / Study				

Tentative List of Topics Covered					
Weeks	Торіс	References			
Week 1	Introduction to the course	From Reference 1 ,			
		From Reference 2 ,			
		From Reference 3 ,			
		From Reference 4 ,			
		From Reference 5			
Week 2	Review of Orthodontics I	From Reference 1 ,			
		From Reference 2 ,			
		From Reference 3 ,			
		From Reference 4 ,			
		From Reference 5			
Week 3	Interceptive and corrective orthodontic	From Reference 1 ,			
		From Reference 2 ,			
		From Reference 3 ,			
		From Reference 4 ,			
		From Reference 5			
Week 4	Space Maintainers	From Reference 1 ,			
		From Reference 2 ,			
		From Reference 3 ,			
		From Reference 4 ,			
		From Reference 5			

Week 5	Maxillary Expansion I	From Reference 1 ,
Week J		From Reference 2 ,
		From Reference 3 ,
		From Reference 4 ,
		From Reference 5
Week 6	Maxillary Expansion II	From Reference 1 ,
		From Reference 2 ,
		From Reference 3 ,
		From Reference 4 ,
		From Reference 5
Week 7	Solders and Flux	From Reference 1 ,
		From Reference 2 ,
		From Reference 3 ,
		From Reference 4 ,
		From Reference 5
Week 8	Functional Appliances I	From Reference 1 ,
		From Reference 2 ,
		From Reference 3 ,
		From Reference 4 ,
		From Reference 5
Week 9	Functional Appliances II	From Reference 1 ,
		From Reference 2 ,
		From Reference 3 ,
		From Reference 4 ,
		From Reference 5
Week 10	Fixed appliances I: Overview & Components	From Reference 1 ,
		From Reference 2 ,
		From Reference 3 ,
		From Reference 4 ,
		From Reference 5
Week 11	Fixed appliances II: Bond-up & Indirect bonding	From Reference 1 ,
		From Reference 2 ,
		From Reference 3 ,
		From Reference 4 ,
		From Reference 5
Week 12	Retainers	From Reference 1 ,
		From Reference 2 ,
		From Reference 3 ,
		From Reference 4 ,
		From Reference 5
Week 13	Revision	From Reference 1 ,
		From Reference 2 ,
		From Reference 3 ,
		From Reference 4 ,
		From Reference 5

Week 14	Rev

From **Reference 1**, From **Reference 2**, From **Reference 3**, From **Reference 4**, From **Reference 5**

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Provide the students with a solid theoretical background related to the field of space maintainers, maxillary expansion and different appliances used to expand the maxillary arch. [10PLO 1, 10PLO 3] [7L6K1, 7L6K2, 6L6C4]	20%	
Be able to recognize and understand the different types of functional orthodontic appliances, their components, their mode of action and their clinical management [10PLO 1, 5PLO 3, 5PLO 6] [10L6S1, 5L6S2, 5L6S3]	20%	
Detailed knowledge of fixed orthodontic appliances: definition, components, indications, contraindication, bond-up [6PLO 1, 7PLO 7, 7PLO 8] [61L6K1, 7L6K2, 7L6S3]	10%	
To provide training on the various laboratory steps involved in the fabrication of orthodontic appliances mainly the wire bending of the various components of an orthodontic appliance, the construction of the acrylic base plate and soldering to fixed bands. [10PLO 6, 10PLO 7, 10PLO 8] [10L6C1, 10L6C2, 10L6C3]	30%	
Develop the manual skills necessary for the construction of various components of removable, functional and fixed orthodontic appliances. [10PLO 2, 10PLO 4] [7L6S1, 7L6S2, 6L6C3]	20%	

Relationship to Program Student Outcomes (Out of 100%)									
PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10
23	10	15	10		15	13.5	13.5		

Relationship to NQF Outcomes (Out of 100%)								
L6K1	L6K2	L6S1	L6S2	L6S3	L6C1	L6C2	L6C3	L6C4
15.13	7.93	17	12	5.93	10	10	16	6

Evaluation				
Assessment Tool	Weight			
Mid Term Exam	50%			
Final Exam	50%			