



Jordan University of Science and Technology
Faculty of Dentistry
Dental Surgery Department

DENT746 Advanced Endodontics 2 - JNQF Level: 9

First Semester 2024-2025

Course Catalog

2 Credit Hours. A didactic course that aims to provide a comprehensive evidenced based knowledge in management of endodontic failure and traumatic injuries to the teeth. It includes evidence based lectures and seminars by the course coordinator, and clinical case presentation and discussion to enhance treatment planning skills and decision making in advanced endodontic topics. The students has to present a critical evaluation of related current literature provided by the instructor in addition to setting long essay exams a to outline management of clinical scenarios with support from literature. Short quizzes and flipped class room are also utilized. Course Objectives 1. Provide the students with basic current and update information in the art and science of modern Endodontics including endodontic retreatment, endodontic microsurgery and dental traumatology 2. Understand the concept of evidence-based dentistry and understand the hierarchy of the available evidence and discussion of quality of published relevant articles and how to relate to specialist dental practice

Teaching Method: Blended

Text Book

Title	Essential Endodontology, Prevention and Treatment of Apical Periodontitis. Blackwell 2008
Author(s)	?rstavik D and Pitt Ford TR
Edition	2nd Edition
Short Name	4_Dent746_K1_1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
4_Dent746_K1_2	Pathways of the pulp	Stephen Cohen, Richard C. Burns Mosby	8th Edition	
Dent 746_S1_3	Color Atlas of Misrosurgery in Endodontics Elseveir 2000	Kim S, Pecora G, and Rubnestein A	1st Edition	
4_Dent 746_K2_4	Essentials of Traumatic Injuries to the Teeth Munksguard	Andreasen J.O and Andreasen F.M	3rd Edition	
4_Dent 746_K3_5	Journal of Endodontics, International Endodontic Journal, Dental Traumatology	International Journal	1st Edition	

Instructor

Name	Prof. Nessrin Taha
Office Location	234
Office Hours	
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Class Schedule & Room

Section 1:
 Lecture Time: Sun : 09:00 - 11:00
 Room: U

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Describe desirable outcome of endodontic treatment and define success and failure in Endodontics	From 4_Dent746_K1_1, From 4_Dent746_K1_2
Week 2	Non-surgical endodontic retreatment I: Techniques.	From 4_Dent746_K1_1, From 4_Dent746_K1_2, From 4_Dent 746_K3_5
Week 3	Non-surgical endodontic retreatment II: prognosis	From 4_Dent746_K1_1, From 4_Dent746_K1_2, From 4_Dent 746_K3_5
Week 3	Surgical Anatomy in Endodontics and Bone Biology	From 4_Dent746_K1_1, From 4_Dent746_K1_2, From Dent 746_S1_3
Week 4	Endodontic Microsurgery- Flap Design+ Presentation of assignment	From 4_Dent746_K1_2, From Dent 746_S1_3, From 4_Dent 746_K3_5

Week 5	Endodontic Microsurgery- Materials and postoperative care	From 4_Dent746_K1_1, From 4_Dent746_K1_2, From Dent 746_S1_3
Week 6	Endodontic Microsurgery- Success Rates and prognostic factors	From 4_Dent746_K1_1, From 4_Dent746_K1_2, From 4_Dent 746_K3_5
Week 7	First IntraSemester Exam	From 4_Dent746_K1_1, From 4_Dent746_K1_2, From Dent 746_S1_3, From 4_Dent 746_K3_5
Week 8	Examination and Diagnosis of Dental Injuries, Classification, Epidemiology, Etiology. and Prevention	From 4_Dent746_K1_1, From 4_Dent746_K1_2, From 4_Dent 746_K2_4, From 4_Dent 746_K3_5
Week 9	Crown fractures,Crown-Root Fractures, Root Fractures diagnosis and management	From 4_Dent746_K1_2, From 4_Dent 746_K2_4, From 4_Dent 746_K3_5
Week 10	Luxation Injuries of Permanent Teeth: Concussion and Subluxation Extrusive Luxation	From 4_Dent746_K1_2, From 4_Dent 746_K2_4, From 4_Dent 746_K3_5
Week 12	Intrusive luxations	From 4_Dent746_K1_2, From 4_Dent 746_K2_4, From 4_Dent 746_K3_5
Week 13	Second IntraSemester exam	From 4_Dent746_K1_2, From Dent 746_S1_3, From 4_Dent 746_K2_4, From 4_Dent 746_K3_5
Week 13	Avulsions	From 4_Dent746_K1_2, From 4_Dent 746_K2_4, From 4_Dent 746_K3_5
Week 15	Management of Complications after dental trauma	From 4_Dent746_K1_2, From 4_Dent 746_K2_4, From 4_Dent 746_K3_5
Week 16	Alveolar bone preservation techniques (Submergence, intentional replantation, transplation)	From 4_Dent746_K1_1, From 4_Dent746_K1_2, From 4_Dent 746_K3_5
Week 16	Final Exam	From 4_Dent746_K1_1, From 4_Dent746_K1_2, From Dent 746_S1_3, From 4_Dent 746_K2_4, From 4_Dent 746_K3_5

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Develop competence to diagnose and treatment plan for persistent endodontic disease through conventional retreatment, and management of complications (20%). Seminars, Written Exams [1PLO_9K1] [1L9K1]	20%	IntraSemester exam, Final exam, second intraSemester exam
Develop knowledge competence to treatment plan for persistent endodontic disease through microsurgical procedures. [1PLO_9K1] [1L9K1]	20%	IntraSemester exam, Final exam, second intraSemester exam
Demonstrate advanced skills in using materials and techniques related to management of endodontic failure [1PLO_9S1] [1L9S1]	10%	IntraSemester exam, Final exam, second intraSemester exam
Illustrate the ability to critically appraise scientific literature related to dental trauma, success and failure in endodontics and its management procedures. [1PLO_9K2] [1L9K2]	20%	IntraSemester exam, Final exam, second intraSemester exam
Recognize and analyze current guidelines for the management of traumatized teeth, and complications after dental trauma using state of the art materials and imaging techniques [1PLO_9K3] [1L9K3]	30%	Final exam

1.1 Scientific Knowledge and Cognitive Skills	1.2 Scientific Knowledge and Cognitive Skills	1.3 Scientific Knowledge and Cognitive Skills	1.4 Scientific Knowledge and Cognitive Skills	1.5 Scientific Knowledge and Cognitive Skills	1.6 Scientific Knowledge and Cognitive Skills	1.7 Scientific Knowledge and Cognitive Skills	2.1 Person Centered Care	2.2 Person Centered Care	2.3 Person Centered Care	2.4 Person Centered Care	3.1 Responsibility, Communication, Professionalism and Ethics	3.2 Responsibility, Communication, Professionalism and Ethics	3.3 Responsibility, Communicator Professionalism and Ethics

Relationship to NQF Outcomes (Out of 100%)			
L9K1	L9K2	L9K3	L9S1
40	20	30	10

Evaluation	
Assessment Tool	Weight
Intr semester exam	25%
Final exam	50%
second intr semester exam	25%

Policy	
Teaching policy, evaluation, Attitude and motivation	<p>1- Class lectures, homework assignments, handouts and presentations are designed to achieve the course objectives</p> <p>2- Students are encouraged to read the assigned materials before class, submit assignments on time and participate in class</p> <p>3- Any difficulty or concern during the course should be passed to the course coordinator</p> <p>4- Home works : Late home works will not be accepted</p> <p>5- Exams: They are likely to be (but Not always) in the form of essay questions and clinical scenarios</p> <p>6- Makeup Exams: It is applicable when an acceptable and valid excuse is presented at the applicable time</p> <p>7-Drop Date: Last date to drop the course is before the (12th) week of the current semester</p> <p>8-Cheating: It is unethical and illegal by any means JUST regulations will be applicable</p> <p>9- Attendance: It is mandatory for all lectures; JUST regulations will be applied when you exceed 10% of an excused absence</p> <p>10: Graded Exams: Exam papers will be graded and returned to students not after the week after the exam date. The answers will be discussed in the class</p> <p>11- Participation: All students are highly encouraged to participate in the classes</p> <p>Finally all Students are highly encouraged to finish all the requirements of this course in due time</p> <p>Being a positive party during this course will be helpful</p>

Date Printed: 2024-10-29