

1	Course title	Advanced Endodontic Treatment
2	Course number	1302728
3	Credit hours (theory, practical)	2 credit hrs (theory)
	Contact hours (theory, practical)	2 hour /week
4	Prerequisites/corequisites	NA
5	Program title	Masters in Fixed & Removable Prosthodontics
6	Program code	
7	Awarding institution	The University of Jordan
8	School	School of Dentistry
9	Department	Conservative Dentistry
10	Level of course	Graduate
11	Year of study and semester (s)	First and Second year
12	Final Qualification	
13	Other department (s) involved in teaching the course	NA
14	Language of Instruction	English
15	Date of production/revision	June 2018

16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Dr Susan Hattar

17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Professor Jamal Aqrabawi
Dr Lina Smadi
Dr Ibrahim Aby Tahun
Dr Mohamad Hammad

18. Course Description:

As stated in the approved study plan.

This course enables students to gain in depth knowledge in diagnosis, treatment and management of the pulpal disease. It explains the complicated anatomy of root canal, biology of dental pulp and periodontal tissues. It concentrates on the basic principles of pathology and immunology of the pulpal and periodontal tissues, and the basic principles of endodontic treatment.

19. Course aims and outcomes:**A- Aims:**

- To teach the students the necessary fundamental manual practical skills for root canal treatment that would furnish the ability to deal with patients that need endodontic treatment in a clinical setting.
- To familiarize students with the internal anatomy of teeth, pulp and root canal system.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to

1. Gain practical skills related to the concepts, principles and methods of root canal treatment.
2. Identify and use various endodontic instruments and materials used for root canal treatment teeth.
3. Evaluate the complexity of the internal anatomy of the tooth and the pulp and root canal system.
4. Student should be able to understand and apply inter-appointment management strategies.
5. Students should be able to perform simple retreatment cases.
6. Apply various techniques related to vital pulp therapy. Acknowledge different characteristics of materials used and decide the proper application for each strategy.
7. Acquire competency in pulpal diagnosis and recognize the different pulpal and periapical pathosis and possible relationship.
8. Use new technologies in endodontic treatment such as rotary endodontics in order to perform treatment with high standards (apex locators, rotary endodontics, vitality testing,..)
9. Understand the management and treatment of teeth with immature roots and the different concepts related to this category
10. Identify and manage professionally different endodontic accidents that might arise from procedural errors.
11. Competency in management of endodontically treated teeth that require posts and core build up prior to the insertion of fixed or removable prosthesis.
12. Be familiar with steps and techniques of endodontic surgery and recognize the cases that require such referral
13. Understand the success and failure rates inherent to endodontic treatment and weigh the balance between performing endodontic treatment or moving to implant therapy
14. Recognize and understand the detailed microbiology of the healthy and diseased pulpal tissues. Gain in-depth knowledge of the immunological reactions occurring within this system.

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Root Canal Anatomy	1		1,3	22	25

Pulpal and Periradicular Diagnosis	2		7	22	25
Root Canal Debridement	3		2	22	25
Obturation of the Root Canal System	4		2, 8	22	25
Vital Pulp Therapy	5		6	22	25
Management of the Immature Apex Tooth	6		9	22	25
Endodontic Retreatment	7		5	22	25
Microbiology in Endodontics	8		14	22	25
Immunologic Reactions and Endodontics	9		14	22	25
Procedural Accidents	10		10	22	25
Endodontic Surgery	11		12	22	25
Success and Failure in Endodontics	12		13	22	25
Post Space Preparation	13		11	22	25
Endodontic-Periodontal Interrelationships	14		7	22	25

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

- Seminar Sessions

Seminars will be led by the faculty members listed in the course outline.

Every week a seminar of 2 hours is given to the students corresponding the designated topic.

Faculty members will distribute a number of "*Key Scientific Articles*" at least one week before the scheduled date of the seminar.

Each student will be responsible for reading and understanding all articles.

The seminar consists of a brief introduction of the subject (instructor), followed by a discussion of the most recent literature review.

Each student will be responsible for presenting one or two of the key articles during the seminar (10 – 15 min) and provide a typed and printed handout to everyone attending the seminar.

The seminar ends with an interactive discussion and exchange of ideas between students and staff members

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Student overall grade will be comprised of:

- 30% midterm written exam
- 15% seminar evaluation
- 15% Literature review
- 40% final written exam

23. Course Policies:

A- Attendance policies:

Seminar and clinic attendance is mandatory. However, 15% allowed absence is granted for students by the university law.

B- Absences from exams and handing in assignments on time:

A make up exam is allowed in cases where the students misses the exam due to an acceptable excuse, and the excuse is submitted in due time according to the university regulations.

C- Health and safety procedures:

All patients must be approved by the faculty of the graduate program.
All postgraduates MUST abide by cross infection control measures and regulations.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

We follow the rules and regulations set by the University of Jordan.

E- Grading policy:

F- Available university services that support achievement in the course:

Students can utilize the university main library, medical library or the electronic library (ezlibrary) for references. In addition, they can access staff websites for additional information related to the course.

24. Required equipment: (Facilities, Tools, Labs, Training...)

Seminar room and a projector with white smart board

25. References:

Required book (s), assigned reading and audio-visuals:

- A- **Endodontics: Principles and Practice, 4th edition, Walton and Torabinejad**
- B- ***Key Scientific articles* and the most updated literature articles are given for each seminar (The topics covered in the seminars constitutes the main exam material)**

26. Additional information:

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----