



Course Specifications

Institution:	College of Dental Medicine
Academic Department :	Restorative Dentistry
Programme :	BDS
Course :	Clinical Endodontics 423 RDS
Course Coordinator :	Dr Mousa Abu Fadaleh
Programme Coordinator :	Dr Abdulrahman Alatram
Course Specification Approved Date :	16/ 11 / 1435 H



A. Course Identification and General Information

1 - Course title :	Clinical Endodontics	Course Code:	423 RDS
2. Credit hours :	(3)		
3 - Program(s) in which the course is offered:	RDS		
4 – Course Language :	English		
5 - Name of faculty member responsible for the course:	Mousa Abu Fadaleh		
6 - Level/year at which this course is offered :	4th		
7 - Pre-requisites for this course (if any) :	<ul style="list-style-type: none"> • 323 RDS 		
8 - Co-requisites for this course (if any) :	<ul style="list-style-type: none"> • 		
9 - Location if not on main campus :	(Zulfi)		
10 - Mode of Instruction (mark all that apply)			
A - Traditional classroom	<input checked="" type="checkbox"/>	What percentage?	30 %
B - Blended (traditional and online)	<input checked="" type="checkbox"/>	What percentage?	10 %
D - e-learning	<input checked="" type="checkbox"/>	What percentage?	5 %
E – Correspondence	<input type="checkbox"/>	What percentage?	0 %
F - Other (clinical demonstration)	<input checked="" type="checkbox"/>	What percentage?	55 %
Comment: Using smart board, attractive Audio-visual Aids and practical demonstration			

B Objectives

What is the main purpose for this course?
 This course continues on building students' knowledge related to the application of a systematic approach to the diagnosis and management of endodontic cases. In addition, students will be familiar with major pulpal and periradicular pathological conditions and their signs and symptoms. During assigned clinical sessions, students apply their acquired knowledge and skills to diagnose, plan and deliver routine non-surgical endodontic treatment to patients with pulpal and periradicular diseases. New advancements in the discipline of endodontics will be also discussed in the course. .

Briefly describe any plans for developing and improving the course that are being implemented:

- At this stage, the student is afraid of clinical work, for that it is necessary to increase the use of audiovisual aids like models, video and pictures.
- Live demonstration on patients.



C. Course Description

1. Topics to be covered

List of Topics	No. of Weeks	Contact Hours
Introduction and orientation : Review of objectives and requirements of the course. Introduction to all endodontic forms that be used in the clinic. Documentation of procedures and treatment. Clinical Protocol.	1	1
Clinical Diagnostic Procedures: Systematic approach to endodontic diagnosis. Taking chief complaint, medical and dental history. Endodontic radiography (buccal objective rules). Diagnosis and treatment planning.	1	1
Preparation for Clinical Endodontics Therapy: Local anesthesia and supplementary injection techniques. Isolation: its importance, difficulties & management.	1	1
Endodontics Re-Treatment: Etiology of post treatment disease. Diagnosis of post treatment disease. Treatment planning. Nonsurgical endodontic retreatment.	1	1
Restoration of Endodontically Treated Teeth: Special features of endodontically treated teeth. Restorative materials and options. Pretreatment evaluation and treatment strategy.	1	1
Endodontic Emergency Treatment: Emergency classifications. Emergency endodontic management. Analgesics and antibiotics.	1	1
Traumatic Injuries I, II: Classification – World Health Organization. Radiographic examination. Clinical management. Follow-up after dental trauma.	2	2
Endo-Perio Relationship: Influence of pulpal pathologic condition on the periodontium. Influence of periodontal inflammation on the pulp.	1	1



Differential diagnosis. Treatment alternatives.		
Prognosis of Root Canal Therapy: Describe the importance of recall. Describe modalities used to determine success and failure. Factors determine success and failure. Identify causes other than endodontic that may lead to failure.	1	1
Endodontic Surgery: Indications for periradicular surgery. Periradicular surgery. Postoperative care.	1	1
Complication related to endodontic treatment: Causes of tooth discoloration. Contraindications to bleaching. Methods of bleaching discolored teeth: Veneering discolored teeth.	1	1
Current topics in endodontics: New Trends in Endodontics Mechanical preparation. Ultrasonic irrigation. Radiographic methods. Thermoplasticized obturation (materials and mechanism).	1	1

2. Course components (total contact hours and credits per semester):

		Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	1 st semester	1	0	0	3	0	60
	2 nd semester	0	0	0	3		45
Credit	1 st semester	1	0	0	1	0	30
	2 nd semester	0	0	0	1		15



3. Additional private study/learning hours expected for students per week.

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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1.1	Students will be able to know the method of detailed case history taking and examination.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students	One best type MCQs exams, short essay exams & quizzes.
1.2	Students will know the importance of isolation and its different types and methods.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students	One best type MCQs exams, short essay exams & quizzes.
1.3	Students will know the different types of endodontic and restorative material and their use.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students	One best type MCQs exams, short essay exams & quizzes.
1.4	Students will be able to know the new method and procedures used in root canal treatment	Lectures, textbook, discussion, audiovisual.	One best type MCQs exams, short essay exams & quizzes.





	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
2.0	Cognitive Skills		
2.1	Students will be able to select and use appropriate endodontic and restorative material.	Textbooks, websites, seminars & handouts.	Exams by written and oral quizzes, questioning, review test & performance notice.
2.2	Students will be able to apply a critical thinking to suggest the differential diagnosis of various pulpal and periapical diseases.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students	One best type MCQs exams, short assay exams & quizzes, clinical observation.
2.3	Students will be able to perform treatment plan for patient needing root canal treatment.	Lectures, textbook, articles, discussion, audiovisual, live demonstration & clinical exposure of the students	One best type MCQs exams, short assay exams & quizzes, clinical observation, reviewing patient file.
3.0	Interpersonal Skills & Responsibility		
3.1	Students will work in groups of two, dentist and assistant.	Eye to eye contacts and group works	Group discussions and clinical observation
3.2	Students will do group projects and presentations.	Group works and presentations.	Group discussions and clinical observation
4.0	Communication, Information Technology, Numerical		
4.1	Consent forms, subjective examination, and explanation of treatment plan to the patients.	By using attractive Audiovisual Aids.	clinical observation, reviewing patient file.



	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
		Justifications and brief descriptions	
4.2	Communication with each other and with the technicians and teaching staff.	By using attractive Audiovisual Aids. Justifications and brief descriptions	Group discussions and clinical observation
5.0	Psychomotor		
5.1	Examine/diagnose endodontic problems and develop appropriate treatment plan.	PowerPoint presentation, demonstrations on patients, individualized attention for correction of mistake & grading of the task.	Case presentation, treatment plan, treatment procedure evaluation, OSCE & Viva.
5.2	Utilize endodontic tests to determine pulp vitality.		Case presentation, treatment plan, treatment procedure evaluation.
5.3	Perform standard non-surgical endodontic treatment on single and multi-rooted teeth.	PowerPoint presentation, demonstrations on patients, individualized attention for correction of mistake & grading of the task.	Case presentation, treatment plan, clinical observation, reviewing patient file.
5.4	Manage dental trauma and endodontic	PowerPoint	Case



	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
	emergencies.	presentation, demonstrations on patients, individualized attention for correction of mistake & grading of the task.	presentation, treatment plan, treatment procedure evaluation, clinical observation, reviewing patient file.

5. Schedule of Assessment Tasks for Students During the Semester:

	Assessment task	Week Due	Proportion of Total Assessment
1	After completion of each prescribed project & seminar	During the semester	5 %
2	Midterm theory exam	29.12.1435	15 %
3	Midterm practical exam	29.12.1435	5 %
4	Clinical assessment	During the semester	30 %
5	Professional assessment	During the semester	5 %
6	Final theory exam	End of the semester	30 %
7	Final practical exam	End of the semester	10 %





D. Student Academic Counseling and Support

- Arrangements for availability of teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week):
- Students will be informed in advance to assemble themselves in the classroom for group discussions
- Students will be informed about the written tasks in the form of essays.
- Students will be encouraged towards use of internet sources and library for the study and completion of the assignments

E. Learning Resources

1. List Required Textbooks :

- Pathways of the Pulp Kenneth M. Hargreaves, and Louis H. Berman 2010 Mosby
- Problem solving in endodontics, prevention, identification and management Ames L. Guttman and Paul E. Lovdahl 2010 ELSEVIER
- Endodontics 6th ed. by: Ingle, Bakland and Baumgartner.
- Principles & Practice of Endodontics 4th ed. by: Walton & Torabinejad

2. List Essential References Materials :

- **Pathways of the Pulp Kenneth M. Hargreaves, and Louis H. Berman 2010 Mosby**

3. List Recommended Textbooks and Reference Material :

- **Endodontics 6th ed. by: Ingle, Bakland and Baumgartner.**
- **Principles & Practice of Endodontics 4th ed. by: Walton & Torabinejad**

4. List Electronic Materials :

- **Articles prepared by course director**
- **Video for root canal treatment procedures and techniques**
- **Presentations**

5. Other learning material :

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F. Facilities Required

1. Accommodation

- **In the Classroom, number of seats is 20**
- **Laptop and Data show,**
- **Smart Board**
- **Equipped dental clinics.**

2. Computing resources

- **Laptop**
- **Smart Board**
- **Internet connection.**

3. Other resources

- **Practical demonstration**
- **Equipped dental units.**
- **Hand instruments for clinical sessions.**

G Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching:

- **Using questioners as an evaluation tools**

2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor :

- **Assess the teacher's abilities and potentials by observations and assistance from colleagues, independent assessment of standards achieved by students, independent advice on assignment tasks.**

3. Processes for Improvement of Teaching :

- **In service educational process means of updating the recent trends in educational process, involving in research**

4. Processes for Verifying Standards of Student Achievement

Describe methods used to compare standards of achievement with standards achieved elsewhere, e.g. check marking of a sample of examination papers or assignment tasks.

5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement :

- **Prepare work sheet for review; refresh the previous knowledge, and panel discussions.**



Course Specification Approved

Department Official Meeting No (1) Date **16 / 11 / 1435 H**

Course's Coordinator

Name : Mousa Abu Fadaleh

Signature :

Date : 18/ 12 / 1435 H

Department Head

Name : Mousa Abu Fadaleh

Signature :

Date : 18/ 12 / 1435 H

