Republic of Yemen

Ministry of Higher Education & Scientific Research
Emirates International University



Faculty of dentistry

Department of Conservative Dentistry

Doctor of Dental Surgery (DDS)

Course Specification of

Endodontics III (clinical)

Course No. (.....)



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Review committee:

Head of the Department

Quality Assurance head

Dean of Faculty





I.	. Course Identification and Gene	eral In	formatio	on:	
1	Course Title:	Endodo	ntics III (cli	nical)	
2	Course Code & Number:				
		Credit	Theory	Hours	Lab.
3	Credit Hours:	Hours	Lecture	Exercise	Hours
		2	1	3	
4	Study Level/ Semester at which this course is offered:	4 th Level / 1 st Semester			
5	Pre –Requisite (if any):	Endodontic II (Pre-clinical)			
6	Co -Requisite (if any):	Operative dentistry III and periodontics I			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Tin	ne		
11	Location of Teaching the Course:	Faculty	of dentistry		
12	Prepared by:	Dr. Basl	neer Hamed	Hamood AI	-Shameri

II. Course Description:

Endodontics III (clinical) This is the first clinical course in a series of courses in endodontics. The student introduces to the clinical application of skills learned in preclinical relevant courses. The course covers clinical experience in diagnosis, treatment planning, management under the supervision of faculty members. Its Identifies students to diagnose and treat different endodontics pain and swelling of vital and non-vital pulp. It provides students clinical experience in emergency management (including traumatic injuries) and treatment. It also offers an introduction to patients who needs surgical endodontics

III. Course Intended Learning Referenced PILOs







	Outcomes (CILOs): Upon successful completion of the course, students will be able to:		earniı	ng out of program
	A. Knowledge and Understanding:	I, A or E		
a1	Recognize the importance of infection control to patients and staff		A1	Describe the scientific basis of dentistry and the relevant biomedical and behavioral sciences which form the basis for understanding human growth, development and health.
a2	Recognize the different diagnosis methods and tools, and understand the importance of the restoration of endodontically treated tooth		A2	Explain the structure and function of the human body in health and disease related to the practice of dentistry.
	B. Intellectual Skills:			
b1	Apply the clinical skills learned in preclinical relevant courses to diagnose and differentiate the source of pain		B1	Incorporate theoretical basic biomedical, behavioral and dental sciences with the clinical signs and symptoms for appropriate understanding of disease and its management.
b2	Develop an appropriate comprehensive, prioritized, and sequenced endodontics treatment procedures		B2	Apply critical thinking and evidence-based problem solving when providing patient's care.
	C. Professional and Practical Skills:			
c1	Perform endodontic treatment on the patient's anterior and premolars teeth.		C1	Obtain and record a comprehensive history, perform an appropriate physical examination, and carry out different investigations to reach a correct diagnosis and treatment.
c2	Skilling diagnostic tools use for differentiating diseases.		C2	Detect pathological conditions related to the dental practice.
	D. Transferable Skills:			* * * * * * * * * * * * * * * * * * * *
d1	Cary-out patients management under the supervision of faculty members		D1	Commit to continuous education, self-development and lifetong learning to remain updates with





			advances in dental practice.
d2	Discuss treatment plan with the work team to recognize the possible outcomes before starting the treatment	D2	Use advanced information and communication technologies to enrich and diversify professional experience.

	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
a1	Recognize he importance of infection control to patients and staff	LectureDiscussion	QuizzesMidterm ExamFinal Exam	
a2	Recognize the different diagnosis methods and tools, and understand the importance of the restoration of endodontically treated tooth	LectureDiscussion	QuizzesMidterm ExamFinal Exam	
	(B) Alignment of Course Intendent Strategies and Assessment Meth	하게 되었다. 그리는 이번 구하는 사람이 되는 것이 없는 것이 없었다.	ectual Skills) to Teaching	
Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies	
b1	Apply the clinical skills learned in preclinical relevant courses to diagnose and differentiate the source of pain	LectureDiscussionProblem-solvingPractical training	QuizzesMidterm ExamFinal Exam	
b2	Develop an appropriate comprehensive, prioritized, and sequenced endodontics treatment procedures	LectureDiscussionProblem-solvingPractical training	QuizzesMidterm ExanFinal Exam	
	(C) Alignment of Course Intend Skills) to Teaching Strategies an	실시하다 경기에 가장 내용을 통하는 나라면 교육하고 있는 경기에 들어갔다.	essional and Practical	
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
c1	Perform endodontic treatment on the patient's anterior and premolars teeth.	Practical trainingProblem-solving	Oral examObservationPractical examinations	
c2	Skilling diagnostic tools use for differentiating diseases.	Practical trainingProblem-solving	 Oral exam Observation Practical examinations 	





(D) Alignment of Course Intended Learning	Outcomes (Transferable Skills) to Teaching
Strategies and Assessment Methods:	

	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	Cary-out patients management under the supervision of faculty members	Practical trainingDiscussion	ObservationPractical ExamSemester Work
d2	Discuss treatment plan with the work team to recognize the possible outcomes before starting the treatment	Practical trainingDiscussion	ObservationPractical ExamSemester Work

IV. Course Contents:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Review in endodontics	Previous term topics	1	1	b1
2	Infection control to patients and staff	 Definitions Personal hygiene practices Vaccination in an infection control strategy cleaning, disinfection, and sterilization procedures the prevention and the management of needlestick and sharps injuries 	2	2	a1, b1
3	Odontogenic pain and non- Odontogenic pain	 Definitions Pain types Odontogenic pain pulp pains periradicular pains periodontal lesion pains Non - Odontogenic pain neurovascular pains neuropathic pains 	3,4	2	a1, b1



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		 musculoskeletal pains 			
4	Endodontic diagnostic procedures	 Definition Diagnostic process: Data collecting Chief complaint History: medical & dental Oral and radiographic examination Interpretation 	5,6	2	a2, b1, b2
5	Treatment planning	 Patient management for appointment Treatment planning of emergencies Treatment planning of nonsurgical treatment Treatment planning of surgical treatment 	7	1	a2, b1, b2
6	Midterm Exam		8	1	a1, a2, b1, b2
7	Guide Line for The Management of Endodontic Emergencies	 Definition Management considerations Management of pre-treatment emergencies Management of Painful Irreversible Pulpitis Management of Pulp Necrosis with Apical pathos's Management of intra-appointment emergencies Management of post-obturation emergencies 	9,10	2	a1, a2, b2
8	Iraumatic Injuries	 Examination and diagnosis Etiology and classification Management of permanent dentition 	11,12	2	a1, a2, b2
9	Various strategies for a	Factors affecting endodontic	13	1	il billo



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
	pain-free root canal treatment	 anesthesia, Initial management Anesthetic management of pulpal or periapical pathoses Anesthesia difficulties in endodontics, 			b2
10	Surgical Endodontics	 Definition Objectives Indications & contraindications for surgical endodontics Presurgical considerations Classification Surgical drainage Periradicular surgery Replacement and implant surgery 	14	1	a1, a2, b1
11	Review	Previous topics	15	1	a1, a2, b1, b2
12	Final Exam		16	1	a1, a2, b1, b2
	Number of Weel	ks /and Units Per Semester	16	16	

	В.	Case	Studies	and	Practical	Aspect:
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No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	Introduction of the practical endodontics	1 st	3	b1, b2
2	- History, examination, diagnosis, treatment plan and record keeping - Root canal treatment of maxillary and mandibular anterior tooth (using hand technique) - Root canal treatment of maxillary and mandibular premolars.((using hand technique)) - Indirect pulp capping for reversible pulpitis	2 nd -14 th	39	c1, c2, d1, d2
3	- Practical Exam	15 th	3	b1, b2 e1 e2 d1, d2





No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
	Number of Weeks /and Units Per Semester	15	45	

V. Teaching Strategies of the Course:

- Lectures
- Discussions
- Brainstorming
- Problem-solving
- Practical training
- Small groups work

VI. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Exam
- Practical Exam
- Observation
- Semester Work

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: History, examination, diagnosis, treatment plan, and record keeping (5 cases)	2 nd -14 th	5	b1, b2
2	Assignment 2: Root canal treatment of maxillary or mandibular anterior tooth (2 cases).	2 nd -14 th	6	c1, c2, d1, d2
3	Assignment 3: Root canal treatment of maxillary or mandibular premolar tooth (1 case).	2 nd 14 th	5	c1, c2, d1, d2
4	Assignment 3: Indirect pulp capping for reversible pulpitis (1 case)	2 nd -14 th	4	c1, c2, d1, d2







No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
	Total		20	

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	2 nd -14 th	20	20 %	b1, b2, c1, c2, d1, d2
2	Quizzes 1 & 2	6 th ,12 th	10	10 %	a1, a2, b1, b2
3	Midterm Exam	8 th	20	20 %	a1, a2, b1, b2
4	Practical Exam	15 th	10	10 %	b1, b2, c1, c2, d1, d2
5	Final Exam	16 th	40	40 %	a1, a2, b1, b2
	Total		100	100%	

IX. Learning Resources:

1- Required Textbook(s) (maximum two):

1- Nisha Garg, Amit Garg.,2015, Textbook of Endodontics, 3th Edition, India, Jaypee Brothers Medical Publishers (P) Ltd

2- Essential References:

- 1- Ilan R; John I I. Ingles Endodontics, 7th Edition, Raleigh, North Carolina, PMPH USA
- 2- Torabinejad et al., 2016, Endodontics. Principles and Practice, ⁶th Edition. China, Elsevier.

3- Electronic Materials and Web Sites etc.:

Websites:

- 1- American Association of endodontists: www.aae.org
- 2- Journal of Endodontics
- 3- Policies and guidelines of the American Academy of Pediatric Dentistry. <u>URL:https://www.aapd.org/research/oral-health-policies--recommendations/</u>

X. Course Policies: (Based on the Uniform Students' By law (2007)

Class Attendance:

Class Attendance is mandatory. A student is considered absent and shall be banned

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Faculty of dentistry

Department of Conservative Dentistry

Program ofDoctor of Dental Surgery (DDS)

Course Plan (Syllabus) of Endodontics III (clinical)

Course No. (......)

I. Information abou	I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member:	Basheer Hamed Hamood Al- Shameri		(Office	Hour	°S		
Location& Telephone No.:								
E-mail:	basheerhamed@qq.com	SAT	SUN	MON	TUE	WED	THU	







	I. Course Identification and Ger	neral In	nformat	ion:	
1	Course Title:	Endodo	ontics III (cl	inical)	
2	Course Code & Number:				
3		Credit	Theory Hours		Lab.
3	Credit Hours:	Hours	Lecture	Exercise	Hours
		2	1	3	
4	Study Level/ Semester at which this course is offered:	4th Leve	1 / ^{1st} Semes	ter	
5	Pre -Requisite (if any):	Endodo	ntic II (Pre-	clinical)	
6	Co -Requisite (if any):	Operative dentistry III and periodontics I			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)			
8	Language of Teaching the Course:	English			
9	Study System:	Semeste	r based Sys	stem	

Full Time

Faculty of dentistry

Dr. Basheer Hamed Hamood AL-Shameri

III. Course Description:

Location of Teaching the Course:

Mode of Delivery:

Prepared by:

Endodontics III (clinical) This is the first clinical course in a series of courses in endodontics. The student introduces to the clinical application of skills learned in preclinical relevant courses. The course covers clinical experience in diagnosis, treatment planning, management under the supervision of faculty members. Its Identifies students to diagnose and treat different endodontics pain and swelling of vital and non-vital pulp. It provides students clinical experience in emergency management (including traumatic injuries) and treatment. It also offers an introduction to patients who needs surgical endodontics

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	IV. Course Intended Learning Outcomes (CILOs): Upon successful completion of the Course, student will be able to:
	A. Knowledge and Understanding:
a1	Recognize the importance of infection control to patients and staff
a2	Recognize the different diagnosis methods and tools, and understand the importance of the restoration of endodontically treated tooth
	B. Intellectual Skills:
b1	Apply the clinical skills learned in preclinical relevant courses to diagnose and differentiate the source of pain
b2	Develop an appropriate comprehensive, prioritized, and sequenced endodontics treatment procedures
	C. Professional and Practical Skills:
c1	Perform endodontic treatment on the patient's anterior and premolars teeth.
c2	Skilling diagnostic tools use for differentiating diseases.
	D. Transferable Skills:
d1	Cary-out patients management under the supervision of faculty members
d2	Discuss treatment plan with the work team to recognize the possible outcomes before starting the treatment

V. Course Contents:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Review in endodontics	Previous term topics	1	1
2	Infection control to patients and staff	 Definitions Personal hygiene practices Vaccination in an infection control strategy cleaning, disinfection, and sterilization 	2	2





V. Course Contents:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		 procedures the prevention and the management of needlestick and sharps injuries 		
3	Odontogenic pain and non- Odontogenic pain	 Definitions Pain types Odontogenic pain pulp pains periradicular pains periodontal lesion pains Non - Odontogenic pain neurovascular pains neuropathic pains musculoskeletal pains 	3,4	2
4	Endodontic diagnostic procedures	 Definition Diagnostic process: Data collecting Chief complaint History: medical & dental Oral and radiographic examination Interpretation 	5,6	2
5	Treatment planning	 Patient management for appointment Treatment planning of emergencies Treatment planning of nonsurgical treatment Treatment planning of surgical treatment 	7	1
6	Midterm Exam		8	1
7	Guide Line for The Management of Endodontic	 Definition Management considerations Management of pre-treatment 	9,10	QA C



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V. Course Contents:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
	Emergencies	emergencies • Management of Painful Irreversible Pulpitis • Management of Pulp Necrosis with Apical pathos's - Management of intra-appointment emergencies - Management of post-obturation emergencies		
8	Traumatic Injuries	 Examination and diagnosis Etiology and classification Management of permanent dentition 	11,12	2
9	Various strategies for a pain-free root canal treatment	 Factors affecting endodontic anesthesia, Initial management Anesthetic management of pulpal or periapical pathoses Anesthesia difficulties in endodontics, 	13	1
10	Surgical Endodontics	 Definition Objectives Indications & contraindications for surgical endodontics Presurgical considerations Classification Surgical drainage Periradicular surgery Replacement and implant surgery 	14	1
11	Review	- Previous topics	15	1
	Final Exam		16	



No.	Tasks/ Experiments	Week Due	Contact Hours
1	Introduction of the practical endodontics	1 st	3
2	- History, examination, diagnosis, treatment plan and record keeping - Root canal treatment of maxillary and mandibular anterior tooth (using hand technique) - Root canal treatment of maxillary and mandibular premolars.((using hand technique)) - Indirect pulp capping for reversible pulpitis	2 nd -14 th	39
3	- Practical Exam	15 th	3
	Number of Weeks /and Units Per Semester	15	45

VI. Teaching Strategies of the Course:

- Lectures
- Discussions
- Brainstorming
- Problem-solving
- Practical training
- Small groups work

VII. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Exam
- Practical Exam
- Observation
- Semester Work

VIII. Assignments:







No.	Assignments	Week Due	Mark
1	Assignment 1: History, examination, diagnosis, treatment plan, and record keeping (5 cases)	2nd -14th	5
2	Assignment 2: Root canal treatment of maxillary or mandibular anterior tooth (2 cases).	2nd -14th	6
3	Assignment 3: Root canal treatment of maxillary or mandibular premolar tooth (1 case).	2nd 14th	5
4	Assignment 3: Indirect pulp capping for reversible pulpitis (1 case)	2nd -14th	4
	Total		20

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	2 nd -14 th	20	20 %
2	Quizzes 1 & 2	6 th ,12 th	10	10 %
3	Midterm Exam	8 th	20	20 %
4	Practical Exam	15 th	10	10 %
5	Final Exam	16 th	40	40 %
	Total		100	100%

X. Learning Resources:

1- Required Textbook(s) (maximum two):

Nisha Garg, <u>Amit Garg.</u>,2015, Textbook of Endodontics, 3th Edition, India, Jaypee Brothers Medical Publishers (P) Ltd

2- Essential References:

- 1. Ilan R; John I I. Ingles Endodontics, 7th Edition, Raleigh, North Carolina, PMPH USA
- 2. Torabinejad et al., 2016, Endodontics. Principles and Practice, 6th Edition. China, Elsevier.

3- Electronic Materials and Web Sites etc.:

Websites:







- 1. American Association of endodontists: www.aae.org
- 2. Journal of Endodontics
- 3. Policies and guidelines of the American Academy of Pediatric Dentistry. URL:https://www.aapd.org/research/oral-health-policies--recommendations/

XI.	Course Policies: (Based on the Uniform Students' Bylaw (2007)
1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

Endodontics III (clinical)

Endodontics III (clinical)

EMIRATIONAL

TERMONAL

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