



**October 6 University**



**Faculty of Dentistry**

# **Program Specification Master DEGREE in Endodontics**

**Approved by the faculty council no. (...) .....**

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# Faculty of Dentistry Endodontics Master's Program Specification

## 1. GENERAL

### 1.1 Basic Information

Award	Program Title	Duration
MDs Certificate in Endodontics.	Master degree of Endodontics	Minimum of two years

Faculty Coordinator	Faculty of Dentistry Assoc. Prof. Yousra Nashaat
Assistant Coordinator	.....
External Evaluator(s)	<b>Professor Maged Negm</b>
Awarding Institution	October 6 University, Faculty of Dentistry
Academic Standards	<b>NARS</b>
Program Commencement	Single: <input type="checkbox"/> Double: <input type="checkbox"/> Multiple: <input type="checkbox"/>
Date of Program Specification Approval	.....

### 1.2 Faculty Members

..... <b>CVs of staff members are attached</b>
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### 1.3 Program External Reviewing

<p><b>Program reviewing was achieved by:</b> An external evaluator was assigned for the program: Professor <b>Professor Maged Negm</b></p> <p><b>CV of external evaluator is attached – with external evaluator report.</b></p>
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## **2. PROFESSIONAL INFORMATION**

### **2.1 Program Aim**

**The program aims to** create Endodontists who are knowledgeable in the endodontic literature and in the basic sciences and who have the ability of learning and teaching, solve different clinical problems and have the ability to deal with it in professional manner and provide an environment in which research and the dissemination of scholarly activity are performed.

### **2.2 Program Objectives**

#### **The Program aims at:**

- Our main goal is to prepare the candidates to become effective learners and to provide a solid foundation for their continuing professional career.
- Prepare the dental post graduate students to acquire knowledge and skills in the specialty
- Provide a specialty program based on advanced knowledge and profound clinical skills in the fields of study and the interrelated disciplines.
- Deliver the latest academic theory and the cutting edge of clinical skills in these fields.
- Advancing the knowledge and skills of postgraduate students in scientific research methodology as a basis for original thinking and innovation in science.

### **Graduate attributes**

#### **The graduate must be able to:**

- 1.1. Acquire advanced knowledge and comprehensive understanding of dentistry applicable to field (s) of study.
- 1.2. Demonstrate specific skills in the provision of the clinical services applicable to this field.
- 1.3. Demonstrate a developed problem solving abilities in the discipline areas, based on a multidisciplinary approach.
- 1.4. Demonstrate a precise understanding of the principles, advanced developments and latest research related to these fields of dental science.
- 1.5. Evaluate and critically discuss the research literature published in these fields.
- 1.6. Acquire the tools for his/her career advancement in these fields. Maintain contentious education development through their career.

## 2.3 Intended Learning Outcomes (ILOs) of the Program

### 2.3.1 Knowledge & understanding

**By the end of this program the graduate should be able to:**

- A.1 Describe the basic medical science of anatomy of human head and neck, physiology, histology of pulp and periapical tissue and oral pathology.
- A.2 Recognize the impact and outcome of treatment modalities for treatment of traumatized teeth and badly decayed teeth and bridge failure cases.
- A.3 Report the differential, provisional or definitive diagnosis by interpreting and correlating findings from the history, clinical and radiographic examination together with other diagnostic tests using recent diagnostic tools.
- A.4 Recognize the recent materials' science and technology used in Endodontic.
- A.5 Describe esthetic consideration in conservative restoration
- A.6 Improve candidate' presentation skills, use information technology and manage time effectively and have good personal, teamwork, IT and an optimum quality standard.
- A.7 List theories and fundamentals related to Endodontics as well as in related areas.
- A.8 Express legal and ethical principles in endodontics.
- A.9 Recognize procedure errors and other referring cases

### 2.3.2 Intellectual skills

**By the end of this program the graduate should be able to:**

- B.1 Assess solving endodontic problems based on sound knowledge.
- B.2 Design the proper methods of diagnosis of different restorative problems in vital and non vital teeth.
- B.3 Analyze and evaluate information in Endodontic and analogies to solve problems
- B.4 Create link between different knowledge to solve the professional problems
- B.5 Consider possibilities of risk assessment in the professional practice in Endodontic
- B.6 Plan to improve performance in Endodontics.
- B.7 Compare the analytical approaches in the Endodontic field.
- B.8 Estimate the contexts of various Endodontic techniques.
- B.9 Carry out research project study (M.D.sc thesis)
- B.10 criticize the recent research papers.

### 2.3.3 Professional & practical skills

**By the end of this program the graduate should be able to:**

- C.1. Design a successful treatment plan based on recent technology.
- C.2. Practice the newest diagnostic and treatment problems
- C.3. Perform modifications in technique that are used for treating patients with badly destructed teeth.
- C.4. Practice advanced clinical Endodontic
- C.5. Apply research work and report writing.
- C.6. Correlate patient information and diagnostic data carefully to perform a suitable treatment plan and construct specialized endodontic report.

### 2.3.4 General & Transferable skills

**By the end of this program the graduate should be able to:**

- D.1. Communicate with patients and other team members with accepted standers of ethical behavior.
- D.2. Manage and solve clinical problems professionally.
- D.3. Use information technology to serve the endodontic practice.
- D.4. Apply self-assessment and assessment of other performances.
- D.5. Respond to continuous self-learning.
- D.6. Manage time effectively
- D.7. Apply basic English and computer skills that improve the development of the career.

## **2.4 Program's Academic Reference Standards:**

National Academic Standards (NARS) for postgraduates was offered by the Egyptian Authority for quality Assurance and Accreditation for Education (NAQAAE) 2009 and adopted by the Faculty in

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## 2.5 Program structure and content

2.5.1 Program Structure		
Number of credit hours / week		
Total	Practical	Theoretical
68	46	45
Total number of elective credit hours	Total number of compulsory credit hours	
2	93	

## 2.5.2 Program Content

Course Code	Course Name	Number of Hours		Pre- requisite	Subject Area According to NARS		
		Lecture	Practical		Basic Science	Medical & Dental Sciences	Complementary Sciences
AHN 101	Anatomy of The Head & Neck	1	2				
ORP101	Oral Pathology I	2	2				
DER101	Dental Radiology I	2	2				
ORB101	Oral Biology	1	2				
MII101	Microbiology & Immunology	1	2				
DCP101	Dental Cariology & Preventive Dentistry	1	-				
BIS101	Biostatistics	1	-				
REM 101	Research Methodology	1	-				
ODE 401	Operative dentistry for endodontics	1	2				
ORP202	Oral Pathology II	2	2				
DER202	Dental Radiology II	2	2				
ORD201	Oral Diagnosis	2	2				
ADB201	Applied Dental Biomaterials I	1	2				

ENL201	Endodontic Literature I	3	-				
PEN 201	Preclinical Endodontics	1	2				
FPE 401	Fixed prothodontics for endodontics	1	2				
END301	Endodontics I	2	4				
TPS301	Treatment Plan Seminar I	3	-				
AEN302	Advanced Endodontic	3	2				
ECP301	Endodontic Case Presentation I	2	4				
ADB302	Applied Dental Biomaterials II	1	2				
SEA301	Sedation & Anesthesia	1	-				
END402	Endodontics II	2	4				
ETS402	Treatment Plan Seminar II	3	-				
AEN403	Advanced Endodontic	3	2				
ECP402	Endodontic Case Presentation II	2	4				
	Practice management	1	-				
	CPR	1	-				
<b>Total</b>		<b>47</b>	<b>46</b>	<b>= 93</b>			



## 2.6 Curriculum Map of Courses against Intended Learning Outcomes of the Program

<u>Course</u>	<u>ILOs</u>				<u>Teaching methods</u>	<u>Assessment methods</u>
	<u>Knowledge and Understanding</u>	<u>Intellectual Skills</u>	<u>Practical /Clinical Skills</u>	<u>General and Transferable</u>		
Anatomy of The Head & Neck					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
Oral Pathology I					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
Dental Radiology I					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
Oral Biology					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
Microbiology & Immunology					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
Dental Cariology & Preventive Dentistry					5.1, 5.2, 5.5,	Written exams, oral, quizzes and assignments
Biostatistics					5.1, 5.2, 5.5	Written exams and assignments
Research Methodology					5.1, 5.2, 5.5	Written exams and assignments

<b>Operative dentistry for endodontics</b>					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
<b>Oral Pathology II</b>					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
<b>Dental Radiology II</b>					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
<b>Oral Diagnosis</b>					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
<b>Applied Dental Biomaterials I</b>					5.1, 5.2, 5.5	Written exams, oral, quizzes and assignments
<b>Endodontic Literature I</b>					5.1, 5.2, 5.5	Written exams, quizzes and assignments
<b>Preclinical Endodontics</b>					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
<b>Fixed prothodontics for endodontics</b>					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
<b>Endodontics I</b>					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
<b>Treatment Plan Seminar I</b>					5.1, 5.2, 5.5	Written exams, oral, quizzes and

						assignments
<b>Advanced Endodontic</b>					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
<b>Endodontic Case Presentation I</b>					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
<b>Applied Dental Biomaterials II</b>					5.1, 5.2, 5.3,5.4, 5.5	Written exams, oral, practical, quizzes and assignments
<b>Sedation &amp; Anesthesia</b>					5.1, 5.2, 5.5	Written exams, oral, quizzes and assignments
<b>Endodontics II</b>					5.1, 5.2, 5.3,5.4, 5.5	exams, oral, practical, quizzes and assignments
<b>Treatment Plan Seminar II</b>					5.1, 5.2, 5.5	Written exams, oral, quizzes and assignments
<b>Advanced Endodontic</b>					5.1, 5.2, 5.3,5.4, 5.5	exams, oral, practical, quizzes and assignments
<b>Endodontic Case Presentation II</b>					5.1, 5.2, 5.3,5.4, 5.5	exams, oral, practical, quizzes and assignments
<b>Practice management</b>					5.1, 5.2, 5.5	exams, oral, quizzes and assignments
<b>CPR</b>					5.1, 5.2, 5.5	exams, oral, quizzes and assignments

## 2.7 Academic Plan for Master's of Endodontics

### First semester

Pre-requisite	Code	Course Title	Credit hours		
			Lectures	Practical	Total
	AHN 101	Anatomy of The Head & Neck	1	2	2
	ORP101	Oral Pathology I	2	2	3
	DER101	Dental Radiology I	2	2	3
	ORB101	Oral Biology	1	2	2
	MII101	Microbiology & Immunology	1	2	2
	DCP101	Dental Cariology & Preventive Dentistry	1	-	1
	BIS101	Biostatistics	1	-	1
	REM 101	Research Methodology	1	-	1
	ODE 401	Operative dentistry for endodontics	1	2	2
<b>Total</b>			<b>11</b>	<b>12</b>	<b>17</b>

### Second semester

Pre-requisite	Code	Course Title	Credit hours		
			Lectures	Practical	Total
	ORP202	Oral Pathology II	2	2	3
	DER202	Dental Radiology II	2	2	3
	ORD201	Oral Diagnosis	2	2	3
	ADB201	Applied Dental Biomaterials I	1	2	2
	ENL201	Endodontic Literature I	3	-	3
	PEN 201	Preclinical Endodontics	1	2	2
	FPE 401	Fixed prothodontics for endodontics	1	2	2
<b>Total</b>			<b>12</b>	<b>12</b>	<b>18</b>

### Third semester

Pre-requisite	Code	Course Title	Credit hours		
			Lectures	Practical	Total
	END301	Endodontics I	2	4	4
	TPS301	Treatment Plan Seminar I	3	-	3
	AEN302	Advanced Endodontic	3	2	4
	ECP301	Endodontic Case Presentation I	2	4	4
	ADB302	Applied Dental Biomaterials II	1	2	2
	SEA301	Sedation & Anesthesia	1	-	1
Elective course I (Practice management)			1	-	
Total			13	12	19

### Fourth semester

Pre-requisite	Code	Course Title	Credit hours		
			Lectures	Practical	Total
	END402	Endodontics II	2	4	4
	ETS402	Treatment Plan Seminar II	3	-	3
	AEN403	Advanced Endodontic	3	2	4
	ECP402	Endodontic Case Presentation II	2	4	4
Elective course II (CPR)			1	-	
Total			11	10	16

### 3. Admission requirements

1. Students have to hold a Bachelor degree in oral and dental surgery from one of the faculties of dentistry in the Arab Republic of Egypt or of its equivalent (through the Supreme Council of Universities) with general grade GOOD at least on the noncredit system faculties, or equivalent GPA in credit hour system faculties.
2. Students must finish their internship period certified by the relevant authority.
3. **General training (internship) not less than 3 months**

### 4. Rules and regulations for progression within the program

- Registration will be held at August/ September each year with the submission of the program fees.
- The registration is cancelled if the student
  - 1) did not pass the first part within two years,
  - 2) did not register the thesis within three years or
  - 3) did not pass the second part within five years of the registration.
- The Masters Degree thesis supervisor can suggest an extension of the registration to a maximum of two semesters after the faculty council endorses this suggestion.
- The student is required to reach the attendance percentage 75 % and submission of the requirements determined by the department council.
- Examinations are held at the end of each semester and students who fail in one or more courses of the semester are admitted to the examination in the failed course (s) only until he/she passes all the program courses.
- Students cannot register for the (semester III and IV) before passing all courses of (Semester I, II).
- Thesis has to be registered upon completion of (Semester I and II) and before registration for (semester III and IV).

## Student assessment according to credit hour system:-

GPA/semester	Grade/التقدير	GPA/accumulative التقدير العام
2.5-2.79	Pass/مقبول	2.5-2.79
2.8-2.99	Good/جيد	2.8-2.99
3.00-3.49	Very good/جيد جدا	3.00-3.49
3.5-4.00	Excellent/ممتاز	3.5-4.00

## 5. TEACHING & LEARNING METHODS

Method (tool)	Intended learning outcomes
5.1 Lectures	Knowledge and Understanding skills, Intellectual skills
5.2 Tutorials	Knowledge and Understanding skills, Intellectual skills
5.3 Practical sessions	Professional Skills, General and Transferable Skills
5.4 Clinical sessions	Professional Skills, General and Transferable Skills
5.5 Assignments & seminars	Knowledge and Understanding skills, Intellectual skills, General and Transferable Skills

## 6. STUDENT ASSESSMENT

Method (tool)	Intended learning outcomes assessed
written examination	Knowledge and Understanding skills, Intellectual skills
Oral examination	Knowledge and Understanding skills, Intellectual skills
Practical examination	Professional Skills, General and Transferable Skills
Open discussion seminars	Knowledge and Understanding skills, Intellectual skills, Professional Skills, General and Transferable Skills
Case presentation	Intellectual skills, Professional Skills, General and Transferable Skills

## Assessment Methods and weights

### First semester

Code	Course Title	CW	Practical	Oral	Written	Total
AHN 101	Anatomy of The Head & Neck					
ORP101	Oral Pathology I					
DER101	Dental Radiology I					
ORB101	Oral Biology					
MII101	Microbiology & Immunology					
DCP101	Dental Cariology & Preventive Dentistry					
BIS101	Biostatistics					
REM 101	Research Methodology					
ODE 401	Operative dentistry for endodontics					
Total						

### Second semester

Code	Course Title	CW	Practical	Oral	Written	Total
ORP202	Oral Pathology II					
DER202	Dental Radiology II					
ORD201	Oral Diagnosis					
ADB201	Applied Dental Biomaterials I					
ENL201	Endodontic Literature I					
PEN 201	Preclinical Endodontics					
FPE 401	Fixed prothodontics for endodontics					
Total						



### Third semester

Code	Course Title	CW	Practical	Oral	Written	Total
END301	Endodontics I					
TPS301	Treatment Plan Seminar I					
AEN302	Advanced Endodontic					
ECP301	Endodontic Case Presentation I					
ADB302	Applied Dental Biomaterials II					
SEA301	Sedation & Anesthesia					
	<b>Practice management</b>					
Total						

### Fourth semester

Code	Course Title	CW	Practical	Oral	Written	Total
END402	Endodontics II					
ETS402	Treatment Plan Seminar II					
AEN403	Advanced Endodontic					
ECP402	Endodontic Case Presentation II					
	<b>CPR</b>					
Total						

## 7. EVALUATION OF PROGRAM INTENDED LEARNING OUTCOMES

<b>Evaluator</b>	<b>Tool</b>	<b>Sample</b>
1- Senior students	Questionnaires	Min. 50%
2- Alumni	Questionnaires	Min. 30%
3- Stakeholders (Employers)	Questionnaires	Min. 30%
4- Faculty Staff	Questionnaires	all
5- Internal Evaluator (QAC)	Visits/Meetings/Workshops	Report
6- External Evaluator (Examiner)	Reviewing Program & Courses	Report