



**Program Specification**  
**Master's of Operative Dentistry**

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

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**Faculty of Dentistry**  
**Postgraduate Program Specification**

**1. GENERAL**

**1.1 Basic Information**

<b>Award</b>	<b>Program Title</b>	<b>Duration</b>
MSc	Master's of Operative Dentistry	Two Years

<b>Faculty</b>	Faculty of Dentistry
<b>Coordinator</b>	Prof. Mohsen Hussein Abielhassan
<b>Assistant Coordinator</b>	Ass. Prof. Marwa Mohamed Temirek
<b>External Evaluator(s)</b>	.....
<b>Awarding Institution</b>	October 6 University, Faculty of Dentistry
<b>Academic Standards</b>	The national academic reference standards (NARS) for postgraduate programs
<b>Program Commencement</b>	10/2020
<b>Date of Program</b>	.....
<b>Specification Approval</b>	

**1.2 Faculty Members**

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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 .....</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 at developing specialists who acquire advanced skills and knowledge in the field of operative dentistry and capable to restore and maintain natural dentition in an optimal state of health, function and esthetics.

### **2.2 Program Objectives**

**The objectives of the program are to:**

- Impart knowledge on the theoretical sciences relevant to Operative Dentistry.
- Plan multidisciplinary preventive and treatment strategies specific to the needs of the patient.
- Train candidates in all levels of restorative and esthetic work.
- Incorporate advanced diagnostics and technology in comprehensive patient management.
- Instill in students' aptitude for research.
- Inculcate leadership skills.

#### **Graduate attributes**

The graduate must be able to:

- 1.1. Demonstrate knowledge of the anatomy of the oral and peri-oral tissues.
- 1.2. Demonstrate knowledge of the etiology, pathobiology and clinical presentations of diseases of the oral and peri-oral tissues.
- 1.3. Demonstrate knowledge of general and clinical epidemiology of oral diseases.
- 1.4. Demonstrate knowledge of biomaterials' science and technology in relation to operative dentistry.
- 1.5. Perform all appropriate examinations that allow collection of information needed to evaluate the oral and related medical conditions for all patients.
- 1.6. Co-ordinate overall treatment and care of patients.
- 1.7. Provide treatment to the highest ethical and technical standards in line with current knowledge and with the full and valid consent of patients.
- 1.8. Manage time effectively and have good personal, teamwork, IT and operational skills in order to contribute to the efficient delivery of healthcare to an optimum quality standard.
- 1.9. Communicate individually with patients and other professionals and in general educational and professional settings.
- 1.10. Show ability to undertake research.

## **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 normal and abnormal structure and function of oral dental and jaw tissue in particular and of human body in general.
- A.2. Record normal and abnormal developmental changes related to dental, oral and jaw tissues.
- A.3. Recognize the etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, and complications of common and important dental and oral health problems.
- A.4. Explain the scientific basis and interpretation of common diagnostic tests.
- A.5. Identify normal radiographic anatomy and its variations in standard dental radiographs.
- A.6. Review principles of management for common oral and dental diseases.
- A.7. Recall principles of dental management of systemic diseases with oral manifestation.
- A.8. Review biomaterial science related to operative dentistry.
- A.9. Recognize the theories and fundamentals related to operative dentistry.
- A.10. Recall principles of ethics and medico-legal aspects in operative dentistry.

### **2.3.2 Intellectual skills**

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

- B.1. Gather essential and accurate medical, social, behavioral and dental information about the patient through medical interviewing, dental and physical examination.
- B.2. Interpret a diet analysis sheet or diary to assist in treatment planning.
- B.3. Interpret the results of the dental radiological imaging and common diagnostic tests.
- B.4. Make diagnostic and therapeutic decisions based on patient information, current scientific evidence, clinical judgment and patients' values.
- B.5. Make differential diagnoses according to the patient clinical condition and results of the diagnostic tests.

- B.6. Request investigations according to patient condition and clinical judgment
  - B.7. Develop and carry out patient treatment plan.
  - B.8. Refer patients for further management when needed
  - B.9. Write clear and informative medical, dental and medico-legal records.
- prevention of caries and other oral and dental health problems

### 2.3.3 Professional & practical skills

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

- C.1. Demonstrate competence in assessing the patient's medical history, obtaining consent, discussing prognosis and formulating a comprehensive, sequential treatment plan based on the diagnostic findings.
- C.2. Manage various types of hard tooth structures' defects.
- C.3. Demonstrate a highly developed problem-solving abilities in operative dentistry based on a multidisciplinary approach.
- C.4. Demonstrate specific skills in advanced clinical restorative dentistry.
- C.5. Perform esthetic restorative procedures.
- C.6. Place and maintain various restorations.
- C.7. Implement preventive procedures.
- C.8. Practice advanced rehabilitation procedures.
- C.9. Treat special patient populations (medically compromised, developmentally disabled, and the geriatric population.)
- C.10. Assess and evaluate the results of the performed therapy.
- C.11. Acquire the tools for career advancement in operative dentistry and maintaining contentious education development through their career.

### 2.3.4 General & Transferable skills

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

- D.1. Demonstrate skills in communication and presentation.
- D.2. Demonstrate skills in data-handling and the use of information technology consistent with the academic, clinical and research aspects of operative dentistry.
- D.3. Work in a team and lead teams in different contexts.

- D.4. Evaluate himself/herself and determine his/her personal learning needs.
- D.5. Manage time effectively.
- D.6. Exercise empathy and a caring attitude and maintain high ethical standards.
- D.7. Evince keen interest in continuing professional education in their specialty and allied specialties irrespective of whether in teaching or practice.
- D.8. Share the knowledge and skills with any learner, junior or a colleague.
- D.9. Develop critical analysis skills of various concepts to adopt the most rational approach.

## 2.4 Program’s Academic Reference Standards:

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## 2.5 Program structure and content

<b>2.5.1 Program Structure</b>		
<b>Number of credit hours / week</b>		
<b>Total</b>	<b>Practical</b>	<b>Theoretical</b>
<b>66</b>	<b>19</b>	<b>47</b>
<b>Total number of elective credit hours</b>	<b>Total number of compulsory credit hours</b>	
<b>2</b>	<b>64</b>	

## 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				
ORP 101	Oral Pathology I	2	2				
DER 101	Dental Radiology I	2	2				
ORB 101	Oral Biology	1	2				
MII 101	Microbiology & Immunology	1	2				
DCP 101	Dental Cariology and Preventive Dentistry	1	-				
BIS 101	Biostatistics	1	-				
REM 101	Research Methodology	1	-				
ORP 202	Oral Pathology II	2	2				
DER 202	Dental Radiology II	2	2				
ORD 201	Oral Diagnosis	2	2				
ADB 201	Applied Dental Biomaterials I	1	2				
ODL 201	Operative Dentistry Literature I	3	-				
POP 201	Preclinical Operative	1	2				
REE 301	Restorative and Esthetics I	2	4				
TPS 301	Treatment Plan Seminar I	3	-				
ODL 302	Operative Dentistry Literature II	3	-				
OCP 301	Operative Dentistry Case Presentation I	2	2				
ADB 302	Applied Dental Biomaterials II	1	2				
SEA 301	Sedation & Anesthesia	1	-				
REE 402	Restorative and Esthetics II	2	4				
TPS 402	Treatment Plan Seminar II	3	-				
ODL 403	Operative Dentistry Literature III	3	-				
OCP 402	Operative Dentistry Case Presentation II	2	2				
EOD 401	Endodontic therapy for Operative Dentistry	1	2				
FOD 401	Fixed Prosthodontics for Operative Dentistry	1	2				
	Practice management	1	-				
	CPR	1	-				
<b>Total</b>		<b>47</b>	<b>19</b>				



## 2.7 Academic Plan for Master's of Operative Dentistry

### First semester

Pre-requisite	Code	Course Title	Credit hours		
			Lectures	Practical	Total
	AHN 101	Anatomy of The Head & Neck	1	2	2
	ORP 101	Oral Pathology I	2	2	3
	DER 101	Dental Radiology I	2	2	3
	ORB 101	Oral Biology	1	2	2
	MII 101	Microbiology & Immunology	1	2	2
	DCP 101	Dental Cariology and Preventive Dentistry	1	-	1
	BIS 101	Biostatistics	1	-	1
	REM 101	Research Methodology	1	-	1
<b>Total</b>			<b>10</b>	<b>5</b>	<b>15</b>

### Second semester

Pre-requisite	Code	Course Title	Credit hours		
			Lectures	Practical	Total
	ORP 202	Oral Pathology II	2	2	3
	DER 202	Dental Radiology II	2	2	3
	ORD 201	Oral Diagnosis	2	2	3
	ADB 201	Applied Dental Biomaterials I	1	2	2
	ODL 201	Operative Dentistry Literature I	3	-	3
	POP 201	Preclinical Operative	1	2	2
<b>Total</b>			<b>11</b>	<b>5</b>	<b>16</b>

### Third semester

Pre-requisite	Code	Course Title	Credit hours		
			Lectures	Practical	Total
	REE 301	Restorative and Esthetics I	2	4	4
	TPS 301	Treatment Plan Seminar I	3	-	3
	ODL 302	Operative Dentistry Literature II	3	-	3
	OCP 301	Operative Dentistry Case Presentation I	2	2	3
	ADB 302	Applied Dental Biomaterials II	1	2	2
	SEA 301	Sedation & Anesthesia	1	-	1
<b>Elective course I</b>			1	-	1
<b>Elective course II</b>			1	-	1
<b>Total</b>			<b>14</b>	<b>4</b>	<b>18</b>

### Fourth semester

Pre-requisite	Code	Course Title	Credit hours		
			Lectures	Practical	Total
	REE 402	Restorative and Esthetics II	2	4	4
	TPS 402	Treatment Plan Seminar II	3	-	3
	ODL 403	Operative Dentistry Literature III	3	-	3
	OCP 402	Operative Dentistry Case Presentation II	2	2	3
	EOD 401	Endodontic therapy for Operative Dentistry	1	2	2
	FOD 401	Fixed Prothodontics for Operative Dentistry	1	2	2
<b>Total</b>			<b>12</b>	<b>5</b>	<b>17</b>

### **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 and grade in the wished subject of specialty of GOOD at least on the noncredit system faculties, or accumulative GPA of 2.5 in credit hour system faculties.
2. Students must finish their internship period certified by ministry of health.

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

1. Registration will be held at August/ September each year with the submission of the program fees.
2. 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.
3. The Master's Degree thesis supervisor can suggest an extension of the registration to a maximum of two semesters after the faculty council endorses this suggestion.
4. The student is required to reach the attendance percentage and submission of the requirements determined by the department council.
5. 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.
6. Students cannot register for the second part (semester III, IV) before passing all courses of the first part (Semester I, II).
7. Thesis has to be registered upon completion of the first part (Semester I, II) and before registration for the second part (semester III, IV).

The grades are classified as follows:

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

## 5. TEACHING & LEARNING METHODS

Method (tool)	Intended learning outcomes
Lectures	Knowledge and Understanding skills, Intellectual skills
Tutorials	Knowledge and Understanding skills, Intellectual skills
Practical sessions	Professional Skills, General and Transferable Skills
Clinical sessions	Professional Skills, General and Transferable Skills
Assignments & Class work	Knowledge and Understanding skills, Intellectual skills, General and Transferable Skills
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## 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
Class work	Knowledge and Understanding skills, Intellectual skills, Professional Skills, General and Transferable Skills
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## Assessment Methods and weights

### First semester

Code	Course Title	CW	Practical	Oral	Written	Total
AHN 101	Anatomy of The Head & Neck	20	30	10	40	100
ORP 101	Oral Pathology I	20	30	10	40	100
DER 101	Dental Radiology I	20	30	10	40	100
ORB 101	Oral Biology	20	30	10	40	100
MII 101	Microbiology & Immunology	20	30	10	40	100
DCP 101	Dental Cariology and Preventive Dentistry	40	-	-	60	100
BIS 101	Biostatistics	40	-	-	60	100
REM 101	Research Methodology	40	-	-	60	100
Total						

### Second semester

Code	Course Title	CW	Practical	Oral	Written	Total
ORP 202	Oral Pathology II	20	20	20	40	100
DER 202	Dental Radiology II	20	20	20	40	100
ORD 201	Oral Diagnosis	20	20	20	40	100
ADB 201	Applied Dental Biomaterials I	20	20	20	40	100
ODL 201	Operative Dentistry Literature I	50	-	-	50	100
POP 201	Preclinical Operative	20	20	20	40	100
Total						

### Third semester

Code	Course Title	CW	Practical	Oral	Written	Total
REE 301	Restorative and Esthetics I	20	20	20	40	100
TPS 301	Treatment Plan Seminar I	50	-	-	50	100
ODL 302	Operative Dentistry Literature II	50	-	-	50	100
OCP 301	Operative Dentistry Case Presentation I	20	20	20	40	100
ADB 302	Applied Dental Biomaterials II	20	20	20	40	100
SEA 301	Sedation & Anesthesia	50	-	-	50	100
Practice management		50	-	-	50	100
CPR		50	-	-	50	100
Total						

### Fourth semester

Code	Course Title	CW	Practical	Oral	Written	Total
REE 402	Restorative and Esthetics II	20	20	20	40	100
TPS 402	Treatment Plan Seminar II	50	-	-	50	100
ODL 403	Operative Dentistry Literature III	50	-	-	50	100
OCP 402	Operative Dentistry Case Presentation II	20	20	20	40	100
EOD 401	Endodontic therapy for Operative Dentistry	20	20	20	40	100
FOD 401	Fixed Prothodontics for Operative Dentistry	20	20	20	40	100
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