



Faculty of Medicine  
Suez Canal University

*Program Specifications, MD*  
Emergency Medicine Department

## **Programme Specifications**

### **A- Basic Information**

- 1- Programme Title: Master of Emergency Medicine
- 2- Programme Type:    Single  Double  Multiple
- 3- Department (s): Emergency medicine
- 4- Coordinator: Dr. Amira khashana
- 5- External Evaluator(s): Professor/ Hala Elgendy
- 6- Last date of programme specifications review approval: 2018
- 7- Credit points: 120

### **B- Professional Information**

#### **1- Programme Aims**

The overall goals of the program are to equip trainees with the knowledge, skills and attitudes required for the prevention, diagnosis, and management of the acute and urgent aspects of illness and injury affecting patients of all age groups.

#### **2- Intended Learning Outcomes (ILOs)**

*By the end of the program the students should be able to:*

##### **a- Knowledge and Understanding:**

- a1 Define triage and identify all its components
- a2 List the methods of assessment and treatment of patients at risk of cardio respiratory arrest.
- a3 Discuss effect of trauma and illustrate surface anatomy to different organs
- a4 Discuss different passive and active techniques that should appropriately be used to protect emergency staff in case of real anticipation of violence
- a5 Recognize the ethical and legal dilemmas surrounding resuscitation
- a6 Outline medicolegal issues surrounding the management of psychiatric emergencies
- a7 Demonstrate basic knowledge of the medicolegal aspects of poisoning and what emergency physicians should do to protect their patients
- a8 Recognize the medicolegal and Ethical issues related to pediatric emergency
- a9 Assure the quality, clinical appropriateness, and usefulness of medical interventions.
- a10 Demonstrate basic knowledge of research ethics
- a11 Demonstrate basic knowledge of biostatistics

##### **b- Intellectual Skills**

- b.1. Integrate the results of history, physical examination and investigations findings into a meaningful diagnostic formulation. (Define problem, reach a provisional diagnosis and formulate differential diagnosis) (Problem solving skills)



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- b.2. Recognize the impact of own value judgments on those patients.
- b.3. Recognize and prioritize patient's problems.
- b.4. Analyze, interpret, objectively evaluate and prioritize information, recognizing its limitations.
- b.5. Demonstrate insight into research and scientific method through:
  - Choose the suitable of methodology;
  - Formulate research questions that are pertinent to medicine;
  - Choose and apply appropriate quantitative and qualitative methodology;
  - Recognize the importance of rigor in data collection, analysis and interpretation;
- b.6. Determine the relationship between evidence, audit and observed variation in clinical practice.
- b.7. Exhibit creativity/resourcefulness in the professional learning, scientific endeavor and clinical practice.
- b.8. Recognize and cope with uncertainty by:
  - accept that uncertainty is unavoidable in the practice of medicine;
  - use appropriate cognitive and intellectual strategies to deal with uncertainty when it arises.
- b.9. Demonstrate sufficient skills to take a rapid relevant history.
- b.10. Take decision in critical situations and under stress.
- b.11. Provide all professional and non-professional help for those who need it at time of emergency.

**c- Professional and Practical Skills**

- c1. Perform competently resuscitation and all other practical procedural skills mentioned in the curriculum
- c2. Appropriately differentiates between various patients expected pathways from hospital admission to safe discharge
- c3. Works in the difficult and tough environment of the Emergency Department, prioritize patients and tasks and be able to respond to new urgent situations.
- c4. Write and evaluate professional reports

**d- General and Transferable Skills**

- d1. Use information technology to serve in the development of professional practice
- d2. Communicate ideas and arguments effectively.
- d3. Manage time and resources and set priorities.
- d4. Apply the principles of scientific research.
- d5. Analyze and use numerical data (Use simple statistical methods).
- d6. Use different resources to obtain knowledge and information.
- d7. Teach, and train, effectively and act as a mentor to others.
- d8. Work effectively within a team.
- d9. Lead trained and non-trained health team, emergency team personnel and volunteers in emergency situations.



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- d10. Communicate effectively with individuals regardless of their social, cultural or ethnic backgrounds, or their disabilities.
- d11. Employ the principles of evaluation skills (subordinates, peers & program).
- d12. Recognize and gain the best benefit of time and daily experiences in his professional career.
- d13. Determine professional limitations and the need to upgrade capabilities.

### 3- Academic Standards

#### **External References for Standards (Benchmarks)**

- The generic Academic Reference Standards (ARS) of NAQAAE for Postgraduate (2009) [<http://naqaae.org/main/php/book/index.php>]

### 4- Curriculum Structure and Contents

**4a- Program duration:** the program lasts for a minimum of 2 academic years and maximum 5 years, as specified in the internal bylaws for postgraduate studies based on credit points system in the Faculty of Medicine, Suez Canal University approved on February 7<sup>th</sup>, 2016.

**Master Program Credit points (CP) structure:**

**Total needed credit points for getting master degree 120 CP**

The program consists of **First part 30 CP, Thesis 30 CP, and Second part 60 CP**

1. The first part of the program: 30 CP, its duration (15 weeks) for one academic semester. It includes
  - a. A course in Research Methodology planned and held in the Community Medicine Department of the Faculty of Medicine, Suez Canal University. This part includes 4 CP.
  - b. A courses in Research ethics planned and held in the Forensic and Toxicology Department of the Faculty of Medicine, Suez Canal University. This part includes 2 CP.
  - c. One elective course, the students should select one elective among six courses. This part includes 2 CP.
  - d. A course of basics of trauma. This part includes 8 CP
  - e. A course of Resuscitation. This part includes 8 CP
  - f. A course of Triage. This part includes 6 CP
2. Master thesis: 30 CP, not included in the total marks for master degree, the candidate has the right to register the thesis protocol after 6 months from the degree registration. The thesis defense is allowed after 6 months from the date of the faculty council approval on the thesis protocol and passing the first part exam.
3. The second part of the program: 60 CP, its duration (45 weeks) for 3 consecutive academic semesters. The second part comprises the specialized courses in emergency medicine, planned and held in the emergency medicine Department. This part lasts for 1.5 years ending by written and practical exams.



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**4bi- No. of hours per week:** 2 CP / week which equivalent 50 hours/ week, including lectures, student prepared presentations, applied cases, self-learning and hands-on training.

**4bii- No. of credit Points:** the Master program is 120 credit points

**5- Programme Courses**

**5.1- Level/Year of Program: First part**

**\*E: Student should select one course of the following as an elective course:**

One elective course has 2 CP. The students should select one elective in first part of the Master degree

**E01 Evidence Based medicine (Community Department)**

Courses			Assessment				
Code No.	Course Title	No. of Credit points	Written Exam			Oral exam	Practical or clinical Exam
			No of Papers	Durati on	Marks		
RB	Research methodology and Biostatistics	4	1	2 hours	80		
RE	Research Ethics	2	1	1 hour	40		
EMEM01	Trauma	8	1	3 hours	120	40	
EMEM02	Resuscitation	8	1	3 hours	120	40	
EMEM03	Triage and disaster	6			90	30	
E	Elective Course*	2	1	1 hour	40		
<b>Total</b>		<b>30 credit points</b>			<b>600 marks**</b>		

**E02 Scientific Writing (Medical Education Department)**

**E03 Quality in Medical Education (Medical Education Department)**

**E04 Infection Control (Microbiology Department)**

**E05 Critical Appraisal (Community Department)**

**E06 Communication Skills (Medical Education Department)**



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**5.2 Level/Year of Programme: Second part**

Courses			Assessment					
Code No.	Course Title	No. of Credit points	Written Exam			Oral exam	Practical or clinical Exam	Continues assessment *(Portfolio)
			No of papers	Durati on	Marks			
EMEM04	Advanced Course in emergency medicine	15	3	3 hours For each paper	110 for each paper	110	330	330
	Practical training in Advances of Practical emergency medicine	40						
	***Scientific activities	5 (not included in the total marks)						
<b>Total</b>		<b>60 credit points</b>			<b>1100 score</b>			

**\*Portfolio scores distributed in the different parts of the portfolio and its total score included among the total mark of the second part**

**\*\*\*Scientific activities are not included in the total marks**

**5.3- Thesis:** A faculty senior & junior supervisor from the staff members are nominated by the department council to prepare a proposal of the thesis protocol after the selection of a subject that is complementary to the research plans of the department. Data collection, methodologies, study question, time table, ethical considerations and budget are formulated by the candidate under guidance of his supervisors into a research project. The research protocol is then peer reviewed by two different staff members nominated by the head of the department who share their ideas and comments with the supervisors to reach to the final form. The research protocol is discussed then openly in one of the department councils to be approved and diverted to the faculty research committee where it is subjected to a critical appraisal to meet the research basic standards set by the committee. The final approvals of the research protocol are then issued by the committee of post graduate studies, the Faculty and University Council to be registered. The candidate has the right to register his/her thesis protocol after 6 months from the degree registration. The first time for thesis defense after 6 months from the date of the faculty council approval on the thesis protocol and passing the first part exam.

**N.B. Thesis represents 30 credit points not included in the total mark for master degree.**



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### **6-Program Admission Requirements**

- The program accepts candidates with Bachelor degree in Medicine and Surgery with minimum good grade & very good.
- Registration for the program opens 2 times/year, according to the internal bylaws for postgraduate studies of the Faculty of Medicine, Suez Canal University.

### **7- Student Assessment Methods**

- 7.1 Written (MEQ)** to assess the cognitive domain.
- 7.2 MCQs** to assess the cognitive domain
- 7.3 Oral Viva Cards** to assess higher cognitive and attitude domains.
- 7.3 Observations** to assess practical and presentation skills.
- 7.4 Portfolio** to assess the cognitive, psychomotor and the affective domains.

### **8- Weighting of Assessments**

<b>Type of exam</b>	
<b>First part (30 credit points= 600 mark)</b>	
• Written exam	490
• Oral and practical exam	110
• <b><u>Total</u></b>	<b>600</b>
<b>Second part (60 credit points including 5 credit points not included in the total marks =1100 mark)</b>	
• Oral exam	110
• Practical exam	330
• Written exam	330
• Portfolio	330
• <b><u>Total</u></b>	<b>1100</b>

### **9- Evaluation of Programme Intended Learning Outcomes**

<b>Evaluator</b>	<b>Tool</b>
<b>1- Students</b>	<b>Questionnaires</b>
<b>2- Stakeholders (Employers)</b>	<b>Interviews</b>
<b>3-External Evaluator(s) (External Examiner(s))</b>	<b>Attending exam. (using checklist and/or rating scale)</b>



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**A comparison of Emergency Medicine intended learning outcomes of  
Master program to the Generic Academic Reference Standards  
(ARS) for postgraduate programs**

Benchmark	Program ILOs Covered (By No.)
<b>2.1: Knowledge and understanding</b>	
<b>By the end of the postgraduate master program the candidate should be able to know and understand the following:</b>	
2.1.01 Theories, basic and specific knowledge related to his specialty as well as basic sciences related to practice in his field	a1-a.3
2.1.02 exchangeable effect of professional practice and its reflection on the environment	a.4
2.1.03 most up-to-date information related to his specialty	a.1-a.3
2.1.04: Basic of ethics and medico legal aspects of professional practice, related to the specialty	a.5-a.8
2.1.05 basis and principles of quality assurance in professional practice related to the specialty	a.9
2.1.06 basis and ethics of scientific researches	a.10
<b>2.2- Intellectual Skills</b>	
<b>By the end of the postgraduate master program the candidate should be able to:</b>	
2.2.01 Analyze and evaluate knowledge to solve problems related to his specialty	b.1-b.4
2.2.02 solve specific problems with insufficient data	b.1,b.3,b.4
2.2.03 Integrate different information to solve professional problems	b.1,b.3,b.4
2.2.04 Perform scientific research or write scientific background for a research problem	b.5
2.2.05 Risk assessment in professional practices	b.3,b.10
2.2.06 Plan to improve performance related to specialty	b.7
2.2.07 professional decision making in relation to different professional sequences	b.10
<b>2.3- Practical and Clinical Skills</b>	
<b>By the end of the postgraduate master program the candidate should be able to:</b>	
2.3.01 Demonstrate essential practical skills related to his specialty	c.1-c3
2.3.02 Write and evaluate professional reports	c4
2.3.03 Evaluate different methods and tools available related to specialty	c.1
<b>2.4 General and transferable skills</b>	
<b>By the end of the postgraduate master program the candidate should be able to</b>	
2.4.01 Communicate ideas and arguments effectively	d.2,d.10
2.4.02 Use information technology to serve in the development of professional practice	d.1
2.4.03 perform self-evaluation and specify his own educational needs	d.11
2.4.04 Use different resources to obtain knowledge and information.	d.4-d.6
2.4.05 state regulations and outcomes for evaluation of others	d.11
2.4.06 Work effectively within team and lead a team effectively indifferent professional situations	d.7- d.9
2.4.07 Manage time effectively	d12
2.4.08 Adopt the principles of self and lifelong learning	d12, d13

**Head of the department**  
**Prof. Mounira Taha**