



**Suez Canal University
Faculty of Medicine
Department of Anatomy**

***PROGRAM FOR
MD of ANATOMY***

PROGRAM SPECIFICATIONS

Code:
AEAE



Programme Specification

A- Basic Information

- 1- Programme Title: MD of Anatomy
- 2- Programme Type: Single Double Multiple
- 3- Department (s): Anatomy
- 4- Coordinator: Prof. Mona Hassan Mohammed Ali
Dr.Ghada Salah El-Din
- 5- External Evaluator(s): Professor Dr. Mohamed Kamal Tawfik
Professor of anatomy Ain Shams University
- 6- First date of program specifications approval: The bylaws of the MD program in Anatomy in the Faculty of Medicine, Suez Canal University were approved by the Supreme Council of Universities in 2016
- 7- program specifications revision approval: September 2019.
- 8- Number of credit points for this degree: 180 CP

1- Professional Information

Program Aims

This program helps the candidates to:

- 1- Provide students with the competencies required to design experiments, analyze data, and review literature critically.
- 2- Use relevant quantitative and qualitative methodologies when writing-up the thesis and projects.
- 3- Develop basic concepts and principles of human anatomy logically and clearly to correlate and analyze anatomical principles.



- 4- Provide them with the most advanced and recent knowledge in anatomy, neuro-anatomy and embryology.

- 5- Understand the general organization of the body systems, and how this organization harmonizes the various body functions in health and disease.
- 6- Develop knowledge in the structural arrangement of body parts and understand how the functions are disturbed when there is an anomaly.
- 7- Understand published scientific research in anatomy and embryology and to do their own research.
- 8- Develop practical skills in doing experiments on isolated organs, tissues, and whole animals.

2- Intended Learning Outcomes (ILOs)

a- Knowledge and Understanding:

By the end of the program, postgraduate students should be able to:

- a.1 Demonstrate advanced knowledge of biostatistics
- a.2 Critically appraise research designs relevant to healthcare.
- a.3 Effectively code, categorize and analyze data generated through the application of one methodology.
- a.4 Appraise features, functions and relationships of anatomic structures and acquire skills of critical judgment.
- a.5 Describe the detailed structure of the human body and embryo.
- a.6 Demonstrate proficiency in evaluating and presenting findings from appropriate peer-reviewed journals.



- a.7 Develop the ability to use anatomical knowledge to evaluate the health of patients and solve clinical problems.
- a.8 Recognize basis and principles of quality assurance in Anatomy lab
- a.9 Recognize the basics of ethics and medico legal aspects of health professional practice.

b- Intellectual Skills

By the end of the program, postgraduate students should be able to:

- b.1. Demonstrate insight into research and scientific method through:
 - critical appreciation of methodology;
 - formulating research questions that are pertinent to medicine;
 - choice and application of appropriate quantitative and qualitative methodologies;
 - collecting, analyzing and interpreting data;
 - Analyzing and using numerical data (Use simple statistical methods)
- b.2. Design integrated approach provided with the fundamental knowledge necessary to understand the organization, embryological development, and function of the different body systems.
- b.3. Evaluate evidence-based information through the use of all relevant information resources
- b.4. Assess critically the scientific literature.
- b.5. Apply the principles of evidence-based medicine in practice.
- b.6. Optimize lifelong self learning through multiple sources to innovate in anatomical practice, including information technology
- b.7. Develop personally effective strategies for the identification and remediation of gaps in medical knowledge needed for effective practice.
- b.8. Improve anatomical laboratory practices by using proficiency programs.
- b.9. Interpret data

c- Professional and Practical Skills



By the end of the program, postgraduate students should be able to:

- c.1 Identify and draw section in anatomy and neuro-anatomy, histology and embryology
- c.2 Perform histological and histochemical techniques
- c.3 Present the recent techniques e.g. in situ hybridization, tissue culture and PCR
- c.4 Write professional report related to anatomy practice
- c.5 develop professional practice and improve performance of others.

d- General and Transferable Skills

By the end of the program, postgraduate students should be able to:

- d.1. Use the knowledge of one's own knowledge , role, settings and the roles of other colleagues to assess and address the educational and medical needs of students and other medical colleagues.
 1. Employ the ability to help other residents obtain competence in anatomy.
 2. Collaborates well with medical technologists with conduction of educational settings for anatomical concepts effective understanding.
 3. Employ the needed principles when educating other practicing anatomists utilizing different teaching methods e.g. publications and seminars.
 4. Revise continuously the updates in the anatomical and medical discoveries.
 5. Educate and evaluate peers
- d.2. Communicate effectively in interpersonal and electronic communications with peers, and other team members of diverse backgrounds, languages and cultures.
- d.3. Use strategies to build alliances, promote inclusion and equity.
- d.4. Understanding and Conduct presentations at multidisciplinary



conferences that should be focused, clear, and concise.

- d.5. Use computer programs and information technology efficiently.
- d.6. Adhere to institutional, regulatory, and professional standards
- d.7. Apply team work and lifelong principles

3- Academic Standards

3a External References for Standards (Benchmarks)

- The generic Academic Reference Standards (ARS) of NAQAAE for Postgraduate

3b Comparison of Provision to External References

See annex

4- Curriculum Structure and Contents

4a- Program duration: The program lasts for a minimum of 3 academic years and maximum 7 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 7th, 2016.

4b- Program structure:

MD Program Credit points (CP) structure:

Total needed credit points for getting MD degree 180 CP

The program consists of First part 30 CP, Thesis 50 CP, and Second part 100 CP

1. **The first part of the program:** 30 CP, its duration (15 weeks) for one academic semester. The first part comprises the following:



- 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 8 CP.
 - b. Two electives each one has 2 CP. The students should select one elective which has not been selected in the Master Degree.
 - c. The specialized courses in general and special embryology, planned and held in the human anatomy and embryology Department. It includes 18 CP.
- 2- **MD thesis:** 50 CP, no scores for thesis. The candidate has the right to

Courses	Assessment
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register his/her thesis protocol after 6 months from the degree registration. The first time for thesis defense after 2 years from the date of the faculty council approval on the thesis protocol.

- 3- **The second part of the program:** 100 CP, its duration (75 weeks) for 5 consecutive academic semesters. The second part comprises the specialized courses in anatomy and neuroanatomy, planned and held in the human anatomy and embryology Department. This part lasts for 2 years ending by written and practical exams.

3bi- No. of credit Points: the MD program is 180 credit Point system.

Every credit point include 25 working hour (30% = 7 hours for face to face learning activities, and 70% =18 hours for self-learning activities).

5- Programme Courses

5.1- Level/Year of Program: **First part of MD (30CP)**



Code No.	Course Title	No. of Credit points	Written Exam			Oral exam	Practical or clinical Exam
			No of Papers	Duration	Marks		
RBs	Research methodology and Biostatistics	8	1	3 hours	160		
AEAE21	Course In general embryology	6	1	3 hours	90	30	
AEAE52	Course In special embryology	12	1	3 hours	180	60	
E	Two Elective courses*	2+2	1+1	1 hour +1 hour	40+40		
Total		30 credit points			600 marks**		

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

Two elective courses each one has 2 CP. The students should select two elective which has not been selected before in the Master Degree.

**every credit point equal 20 marks

- E01 Evidence Based medicine (Community Department)
- 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)

5.2- Level/Year of Program: Second part of MD program (100 CP)

Courses			Assessment			
Code	Course Title	No. of	Written Exam	Oral	Practical	Continues



No.		Credit points	No of papers	Duration	Marks	exam	cal or clinical Exam	assessment *(Portfolio)
AEA E53	• Scientific and theoretical Course in regional anatomy	42	2	3 hours For each paper	360 for each paper	180	360	540
	• course in anatomy and neuroanatomy	18						
	• practical training in anatomy	30						
	***Scientific activities	10 (not included in the total marks)						
Total		100 credit points				1800**marks		

*Portfolio its scores distributed in the different parts of the portfolio and its total score included

among total mark od second part

**every credit point equal 20 marks

***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.

6- Program Admission Requirements

- Master of Anatomy and Embryology with minimum good grade
- 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.
- 7.4 Observations** to assess practical and presentation skills.
- 7.5 Portfolio** to assess the cognitive, psychomotor and the affective domains.

8- Weighting of Assessments

Type of exam	
First part (30 credit points= 600 mark)	
• Written exam	510
• Oral and practical exam	90
• <u>Total</u>	600



Second part (100 credit points including 10 credit points not included in the total marks =1800 mark)

• Oral exam	180
• Practical exam	360
• Written exam	720
• Portfolio	540
<u>Total</u>	1800

9- Regulations for Progression and Program Completion

- The regulations for program completion follow the general regulations for the Faculty of Medicine, Suez Canal University for MD approved by the Supreme Council of Universities. The program is considered complete with the accomplishment of 2 summative assessment (for the first and the second parts) and the defense of a thesis developed and submitted for the purpose of acquiring the degree.
- **First part (40%)**
Passing level 60% of total marks of the exam and at least 50% passing level of the total written exam marks
- **Second part (60%)**
 - Passing level 60% of total marks of the exam
 - Passing level 60% total of practical and oral exam
- **Thesis/Assay**
Passing discussion is required for MD degree



10- Evaluation of Programme Intended Learning Outcomes

Evaluator	Tool	Sample
1- postgraduate students	Questionnaires	
2- Alumni	Questionnaires	
3- Stakeholders (Employers)	Interviews	
4-External Evaluator(s) (External Examiner(s))	Attending exam. (using checklist and/or rating scale)	
5- Other		

Head of Human anatomy and embryology department

Prof. Mona Hassan