



**Quality Assurance Unit**



**Tanta University  
Faculty of Medicine**

**Department of Anesthesiology, Surgical intensive  
care**

**Program Specifications**

**Anesthesiology, Surgical intensive care**

**Master degree**

**2014**

Program Specifications of Anesthesiology, Surgical intensive care Master Degree

University: Tanta

Faculty: Medicine

Department: : Anesthesiology,  
Surgical intensive care

### **A- Basic information**

**1-Program title: Master of Anesthesiology, Surgical intensive care**

**2-Program Code: ANES 800**

**3- Program coordinator: Prof. Mohamed Ahmed El-Harty (Anesthesiology, Surgical intensive care and Pain management Tanta University).**

**4-program internal evaluators: Prof. Abdel Reheem Dowaidar (Anesthesiology, Surgical intensive care and Pain management Tanta University).**

**5-program external evaluators: Prof. Dr. Nevein Mahmoud El-Aasar (Anesthesiology and Surgical Intensive Care Zagazig University).**

**6-Date of approval:**

**7-Departments offering the courses of the program: Anesthesiology, Surgical intensive care department, Anatomy department, Physiology department, Internal medicine department Faculty of medicine, Tanta University.**

### **B\_ professional information**

#### **1 - Overall program aims**

##### **Our program aims to:**

By the end of the program, the student should be a competent and safe anesthetist; He is able to:

- Conduct anesthesia for different common operations, safely and efficiently, to patients with different common medical problems.
- Avoid, suspect, anticipate and manage different complications that may occur peri-operatively.
- Resuscitate and manage critically ill patients safely and effectively.
- Manage peri-operative pain safely and efficiently, and to avoid and manage possible adverse effects of pain and drugs used for its relief
- Share and transfer Knowledge and experience to his/her colleagues. Also, he/she is capable of updating his/her knowledge and doing his research for improving level of health care in his society.
- Orient and implement the quality improvement and patients' safety.

#### **2 - Intended learning outcomes (ILOs):**

##### **A. Knowledge and understanding:**

By the end of the program the candidate will be able to:

**A.1)** Recognize different types of anesthesia with the advantage(s) and disadvantage(s) of every type.

**A.2)** Discuss the mechanism(s) of action of different anesthetics and co-adjutant drugs

- A.3) Identify the complications of anesthesia, how to anticipate and how to avoid and manage
- A.4) Outline the principles, methods, ethics, and various tools of medical researchers.
- A.5) Recognize the principles of quality assurance in medical practice.
- A.6) Identify the effect of medical practice on surrounding environment and how can it be made safe.

**B. Intellectual skills:**

**By the end of the program the candidate will be able to:**

- B.1) Prepare the patients for operation and choose proper type of anesthesia for proper patient and proper operation
- B.2) Anticipate, identify and manage problems under GA (e.g. cardiac arrest)
- B.3) interpret data with his capability so as to ask for help in the proper time or to transfer the patient to more experienced anesthetist or more equipped center to cope with the anticipated problems
- B.4) Design and Formulate medical research paper.

**C. Professional and practical skills:**

**By the end of the program the candidate will be able to:**

- C.1) Evaluate and resuscitate the patient
- C.2) Perform endotracheal intubation safely, and to maintain the airway patent with different available techniques
- C.3) Perform common regional and local anesthetic techniques properly and safely
- C.4) Use recent technological tools as computer and internet, to serve his career through searches and assignments.

**D. General and transferable (attitude and communication) skills:**

**By the end of the program the candidate will be able to:**

- D.1) Participate in team working, Apply self-evaluation and specify his medical educational needs.
- D.2) Solve Problems
- D.3) Know how to deal with patients, their relatives and doctors
- D.4) Acquire an approach to medico legal problems
- D.5) Manage scientific seminars, with good time management.

**3- Academic standards adopted**

- Medical academic standards for master adopted by the faculty council in May 2010 and offered by the Egyptian Authority for Quality Assurance and Accreditation for Education (NAQAEE) for post graduate 2009 was adopted was adopted as bench mark.
- University of Oxford — Medical Sciences Division

#### **4 – Curriculum structure and content:**

**4-a- Program duration:** at least 36 months from registration

#### **4-b- Program structures:**

**1<sup>st</sup> part:** (through the 12 months (divided on 2 semesters each is 15 weeks long) after registering to the degree, for 18 credit hours, student should pass the end semester exams with C+ to attend the final 1<sup>st</sup> part exam that accounts for 30% of total marks, its passage is a must for administration to second part)

**Thesis:** (during the courses of first part or directly after candidate pass it, the candidate register his thesis in the department council. The thesis should be in accordance with the scientific research plan of the department, it is considered for 12 credit hours. It can be at least discussed 2 months before the final exam of second part. No marks are allocated for thesis but its passage is a must to enter the second part examinations)

**2<sup>nd</sup> part:** (through 24 months (divided on 4 semesters each is 15 weeks long) from passing the exams of first part for 36 credit hours, student should pass the end semester exam with C+ to attend the final exam of 2<sup>nd</sup> part that accounts for 70% of marks, student should attend a full time participation through this year in Anesthesiology, Surgical intensive care department fulfilling 75% of his attendance in each semester to be allowed to enter the exams.

#### **5-Courses included in the program:**

##### 5.1 Courses titles in first part

1. Anatomy related to Anesthesia
2. Physiology related to Anesthesia
3. Pharmacology related to Anesthesia
4. Physics & measurements
5. Internal medicine
6. Elective courses

*Departments offering the courses:* Anatomy department, Physiology department, Internal medicine department and Anesthesiology, Surgical intensive care department, Tanta University

##### 5.2 Courses titles in second part

- Curriculum (clinical training course and theoretical course) in Anesthesia & ICU.
- *Department (s) offering the courses:* Anesthesiology, Surgical intensive care department faculty of medicine, Tanta University.

**Program Specifications for Anesthesiology, Surgical intensive care Master degree, 2014**

	Code	Course Title	No. Of taught Hours /Week		Total credit hours / course	Remarks	Program ILOs Covered
			Theoretical	Practical			
1 <sup>st</sup> part	ANES 8001	Anatomy	15		1	1 <sup>st</sup> semester	a1,3 ,b1
	ANES 8001	Physiology	15		1		a1,3 b1,2
	ANES 8001	Pharmacology	15		1		a2,b2
	ANES 8004	Physics & measurements	45		3		a1,2,3 ,b1,2
	ANES 800	2 elective courses			2		
	ANES 800	Scientific meeting			1		
	ANES 8002	Internal medicine	30	30	3	2 <sup>nd</sup> semester	a1,3 ,b1,2 , d4
	ANES 8003	Internal medicine	30	30	3		a1,3 ,b1,2 , d4
	ANES 800	2 elective courses			2		
	ANES 800	Scientific meeting			1		
2 <sup>nd</sup> part	ANES 8004	Anesthesia	60	60	6	1 <sup>st</sup> semester	a1,2,3,4,5 b1,2,3 c1,2,3,4 d1,2,3,4,5
	ANES 800	2 elective courses			2		
	ANES 800	Scientific meeting			1		
	ANES 8005	Anesthesia	60	60	6	2 <sup>nd</sup> semester	a1,2,3,4,5 b1,2,3 c1,2,3,4 d1,2,3,4,5
	ANES 800	2 elective courses			2		
ANES 800	Scientific meeting			1			

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	Code	Course Title	No. Of taught Hours /Week		Total credit hours / course	Remarks	Program ILOs Covered
			Theoretical	Practical			
	ANES 8006	Surgical ICU	60	60	6	3rd semester	a1,2,3,4,5 b1,2,3 c1,2,3,4 d1,2,3,4,5
	ANES 800	2 elective courses			2		
	ANES 800	Scientific meeting			1		
	ANES 8007	Pain managment	60	60	6	4th semester	a1,2,3,4,5 b1,2,3 c1,2,3,4 d1,2,3,4,5
	ANES 800	2 elective courses			2		
	ANES 800	Scientific meeting			1		

program ILOs versus courses matrix																			
ILOs																			
	a						b				c				d				
	1	2	3	4	5	6	1	2	3	4	1	2	3	4	1	2	3	4	5
Anatomy	*		*				*												
physiology	*		*				*	*											
pharmacology	*	*																	
Internal med	*		*				*	*											*
Physics and measurement	*	*	*				*	*											
Anesthesia and ICU	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Thesis				*					*				*						*

**Academic Reference Standard (ARS)**

		program ILOs versus courses ARS																								
ILOs \ ARS		A						B							C			D								
		1	2	3	4	5	6	1	2	3	4	5	6	7	1	2	3	1	2	3	4	5	6	7	8	
A	1	*	*																							
	2	*	*	*																						
	3				*																					
	4						*																			
	5					*																				
	6						*																			
B	1						*																			
	2							*				*		*												
	3								*																	
	4									*			*													
C	1													*												
	2													*												
	3													*												
	4														*	*										
D	1																			*		*	*	*		
	2																		*							
	3																	*								
	4																	*								
	5																			*	*	*				*

**6. Program admission requirements:**

Registration, progress requirements, and schedule of written exams are provided by the faculty through the post graduate guide book according to postgraduate rules (provided as an annex) (paragraphs no. 51-52-53-54-55-56-57-60.18).

**7. Regulation for progression and program completion**

The general rules and regulations of assessment approved by Tanta University. In addition to the successful completion of the training program, all candidates must attend more than 75% in each semester and successfully pass end semester exams and also the final exam in order to get the certificate.

**First Part Exam:**

The final first part exam is a written, clinical and oral exam. Candidates are allowed to sit for the final first part exam after passing both semesters exams of the first part

**Second Part Exam:**

The final second part exam is a written, oral and clinical exam. Candidates are allowed to sit for the second part exam after passing successfully the first part and after passing all semesters exams with at least C+. In addition, each candidate must submit his logbook for final assessment with attendance of 75% of each semester. The logbook requirements must all be completed and signed by the trainers and educational supervisors.

Pre-requisites for entering the second part exam

Candidates should submit the final logbook and certificates of passing end semesters exam. Candidates should also submit a research work on a subject chosen by educational supervisors. The scientific council must accept this project as adequate. The thesis must be discussed at least 2 months before attending the final exam. Otherwise, the candidate will not be permitted for the second part exam.

**8-Program assessment and evaluation:**

**Assessment**

- 1- Semester exams (C+ required for final exam attendance).
- 2- Final exam (30 % of total marks in first part exam and 60% of total marks in final 2<sup>nd</sup> part exam): Written 40%, oral 30% and clinical 30%.
- 3- Log book.

**Evaluation**

- Program external evaluator
- Program Internal evaluator
- Reports of program external and internal evaluators
- Questioner to students and stick holders
- Reports of faculty internal auditing system

Will be included in the annual program report, and action pane will be structured accordingly

**9-We certify that all of the information required to deliver this program is contained in the above specifications and will be implemented**

We verify that the above Program and the analysis of students and external evaluator opinions are accurate.

Program coordinator and head of department  
name.....signature.....Date.....

Head of quality assurance unit:  
name.....signature.....Date.....