



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

**Department of Anesthesiology, Surgical intensive
care**

Program Specifications

**Anesthesiology, Surgical intensive care
for Doctorate degree**

2014

Program Specifications of Anesthesiology, Surgical intensive care for Doctorate degree

University: Tanta

Faculty: Medicine

**Department:
Anesthesiology, Surgical
intensive care**

A- Basic information

- 1. Program title: Doctorate of Anesthesiology, Surgical intensive care.**
- 2. Program Code: ANES 900.**
- 3. Program coordinator: Prof. Mohamed Saed Okab (Anesthesiology, Surgical intensive care and Pain management Tanta University).**
- 4. Program internal evaluator: Prof. Kamal Eldin Hekal (Anesthesiology, Surgical intensive care and Pain management Tanta University).**
- 5. Program external evaluator: Prof. Dr. Ahmed Salama Elnagar (Anesthesiology and Surgical Intensive Care Zagazig University).**
- 6. Date of approval:.**
- 7. Departments offering the courses of the program: Anesthesiology, Surgical intensive care department, Tanta University.**

B_ professional information

1 – Overall program aims

Our program aims to:

By the end of the program, the anesthesiologist will be able to:

- Prepare patient for anesthesia in a proper way.
- Conduct anesthesia in a safe manner, with smooth, pain-free post-operative recovery.
- Develop skills in the assessment and management of critically ill-patients.
- Recognize the management of acute and chronic pain.
- Develop, implement and maintain policies of quality improvement and patients safety
- Solve common and uncommon problems encountered during work in a safe and scientific manner.
- Share and transfer Knowledge and experience to his/her colleagues.
- Capable of updating his/her knowledge and doing his research for improving level of health care in his society.

2 – Intended learning outcomes (ILOs):

A. Knowledge and understanding:

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

- A.1) Define various anesthetic, surgical intensive care and pain management techniques

- A.2) List all anesthetic drugs, equipments, and tools, and discuss its basic pharmacological and physical properties.
- A.3) State all methods of invasive and non-invasive patient monitoring.
- A.4) Outline the basic physiologic mechanisms for body systems related to anesthetic practice (C.V.S., chest, blood, kidney, liver, endocrines, nervous system).
- A.5) Recognize simple, moderate, and major peri-operative problems and how to diagnose it.
- A.6) Identify the anatomical description for related body systems (heart, lungs, airway, C.N.S., kidney, liver).
- A.7) Recognize the principles, methods, ethics, and various tools of medical researchers.

B. Intellectual skills:

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

- B.1) Sketch the suitable method of management for different anesthetic problems.
- B.2) Design an anesthetic plan for different surgical procedures (simple, mild, up to moderate).
- B.3) Plan diagnosis from patient's data measured by all monitoring tools in the peri-operative period (relation and correlation of data).
- B.4) Practice proper patient evaluation all through the peri-operative setting
- B.5) Manage complicated anesthetic problems in patients with complex health complications
- B.6) Formulate medical research paper.
- B.7) Argue and discuss medical issue on evidence based manner.

C. Professional and practical skills:

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

- C.1) Assess and perform full clinical examination to evaluate the patient's health status.
- C.2) Assess and Perform vascular access (Insert a peripheral venous line at different sites, insert a central venous line and insert an arterial line).
- C.3) Assess and perform Airway management (Insert an endotracheal tube, supra-glottic devices and recent airway devices).
- C.4) Assess and perform different regional anesthetic techniques.
- C.5) Select and properly use all components of the anesthetic machine; adjust ventilator and vaporizer settings, and use and analyze monitoring parameters.
- C.6) Compare and use different anesthetic drugs, fluids and medications in the proper dose and method
- C.7) Evaluate and write a professional medical report related to anesthesia and ICU.
- C.8) 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) Communicate and deal with patients with the proper ethical manners.

D.2) Apply and work in a team with his colleagues (the team leader and the assistants), nursing staff and doctors of other specialties in the operating room

D.3) work as a team leader in the setting of O.R., CPR, and trauma care

D.4) perform the basic steps in clinical research (plan, data collection, statistical analysis, and conclusion).

D.5) Supervise a team composed of a number of specialists or residents running more than one O.R. at the same time with maximum safety

D.6) Manage scientific seminars, with good time management.

3- Academic standards adopted

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

4 – Curriculum structure and content:

4-a- Program duration: at least 48 months from registration

4-b- Program structures:

1st part: Through the first 12 months after registry to the degree (divided on 2 semesters each is 15 weeks long), for 18 credit hours, student should pass the end semester exams with C+ and pass the final exam of the 1st part to administer to second part)

Thesis: should be in accordance with the scientific research plan of the department, it is considered for 16 credit hours. Student must discuss the thesis at least 2 months before attending the final written, oral and clinical examination to get the degree.

2nd part: through 36 months (divided on 6 semesters each is 15 weeks long), for 54 credit hours, 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 end semester exams and should pass the end semester exam with C+ to attend the final exam.

5-Courses included in the program:

5.1 Courses titles in first part

- 1) Pharmacology
- 2) Clinical physiology
- 3) Physics and clinical measurements

Departments offering the courses: Anesthesiology, Surgical intensive care department faculty of medicine, Tanta University

5.2 Courses titles in second part

- Curriculum (clinical training course and theoretical course) in Anesthesia

Anesthesiology, Surgical intensive care for Doctorate degree, Program Specifications 2013-2014

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

5.3 Courses titles in third part

- Thesis in specialty according to the research plane of the Anesthesiology, Surgical intensive care department.

	Code	Course Title	No. Of taught Hours /Week		Total credit hours / course	Remarks	Program ILOs Covered
			Theoretical	Practical			
1 st part	ANES 9001	Pharmacology	30	30	3	1 st semester	a1,3 ,b1
	ANES 9002	Clinical physiology	30	30	3		a1,3 b1,2
	ANES 900	2 elective courses			2		
	ANES 900	Scientific meeting			1		
	ANES 9003	Physics & measurements	60	60	6	2 nd semester	a2,b2
	ANES 900	2 elective courses			2		
	ANES 900	Scientific meeting			1		
2 nd part	ANES 9004	Anesthesia	60	60	6	3 rd semester	a1,2,3,4,5 b1,2,3 c1,2,3,4 d1,2,3,4,5
	ANES 900	2 elective courses			2		
	ANES 900	Scientific meeting			1		
	ANES 9005	Anesthesia	60	60	6	4 th semester	a1,2,3,4,5 b1,2,3 c1,2,3,4 d1,2,3,4,5
	ANES 900	2 elective courses			2		
	ANES 900	Scientific meeting			1		

Anesthesiology, Surgical intensive care for Doctorate degree, Program Specifications 2013-2014

	Code	Course Title	No. Of taught Hours /Week		Total credit hours / course	Remarks	Program ILOs Covered
			Theoretical	Practical			
	ANES 9006	Surgical ICU	60	60	6	5 th semester	a1,2,3,4,5 b1,2,3 c1,2,3,4 d1,2,3,4,5
	ANES 900	2 elective courses			2		
	ANES 900	Scientific meeting			1		
	ANES 9006	Surgical ICU	60	60	6	6 th semester	a1,2,3,4,5 b1,2,3 c1,2,3,4 d1,2,3,4,5
	ANES 900	2 elective courses			2		
	ANES 900	Scientific meeting			1		
	ANES 9007	Pain managment	60	60	6	7 th semester	a1,2,3,4,5 b1,2,3 c1,2,3,4 d1,2,3,4,5
	ANES 900	2 elective courses			2		
	ANES 900	Scientific meeting			1		
	ANES 9007	Pain managment	60	60	6	8 th semester	a1,2,3,4,5 b1,2,3 c1,2,3,4 d1,2,3,4,5
	ANES 900	2 elective courses			2		
	ANES 900	Scientific meeting			1		

Anesthesiology, Surgical intensive care for Doctorate degree, Program Specifications 2013-2014

program ILOs versus courses matrix																												
ILOS																												
	a							b							c								d					
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	1	2	3	4	5	6
English							*						*	*							*						*	
computer							*						*									*					*	*
stat							*						*														*	*
Anesthesi a	*	*	*	*	*	*		*	*	*	*	*				*	*	*	*	*	*		*	*	*	*	*	*
thesis							*						*	*								*						

Academic Reference Standard (ARS)

program ILOs versus courses ARS																												
ARS	A							B							C							D						
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	9	1	2	3	4	5	1	2	3	4	5	6	7
A	1	*			*																							
	2	*																										
	3	*																										
	4	*																										
	5			*	*																							
	6	*																										
	7		*																									
B	1					*																						
	2						*						*															
	3							*																				
	4											*																
	5										*		*	*														
	6								*	*		*																
	7													*	*													
C	1															*												
	2															*												
	3																*											
	4																*											
	5																*											
	6																	*										
	7																*			*								
	8																	*		*								
D	1																				*							
	2																						*	*	*			
	3																				*							
	4																					*						
	5																						*	*	*			
	6																						*		*		*	*

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, practical 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 (20 % of total marks in first part exam and 80% of total marks in final 2nd part exam): Written 60%, oral 16 % ,clinical 16% and practical 8%.
- 3- Log book.

Evaluation

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

Will be included in the annual program report, and action plane 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.....