



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

**Department of Anesthesiology, Surgical intensive
care**

Course Specifications

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

2014

*Anesthesiology, Surgical intensive care for Doctorate degree
Course Specifications: 2014*

Course Specifications of Anesthesiology, Surgical intensive care Doctorate degree

University: Tanta

Faculty: Medicine

Department: Anesthesia

A- Administrative Information

1. **course title: ICU for Doctorate of Anesthesiology, Surgical intensive care**
2. **Department offering the course: Anesthesiology, Surgical intensive care**
3. **Department responsible for the course: Anesthesiology, Surgical intensive care**
4. **Course code: ANES 9006**
5. **Level: Second part.**
6. **No. of Credit / taught hours:**
 - **credit hours:**
 - **Theoretical: 4 hours/week X 15 weeks =60 hours (4 credit hour)**
 - **Practical: 4 hours/week X 15 weeks =60 hours (2 credit hour)**
7. **Authorization date of course specification:**

B- Professional Information

1 – Overall Course aims

By the end of the course, the student should be able to:

- know and anticipate the problems encountered in intensive care, how to avoid, detect and manage.
- do technical work (such as vascular access, ET intubation, ventilator adjustment, CPR properly and efficiently in proper time.
- interpret patient data, ventilator data, lab and blood gases to make the proper decision in the proper time

2 – Intended learning outcomes (ILOs):

A- Knowledge and understanding:

By the end of the course, student should be able to:

- A.1) Recognize indications for ICU admission, criteria for discharge, complications of ICU.
- A.2) Identify how to monitor, manage different cases admitted to ICU
- A3) Understand pathophysiological changes in ICU patients in different diseases

B-Intellectual skills

By the end of the course, student should be able to:

- B.1) interpret data obtained from patient clinical examination, lab results, x-ray findings and monitor and ventilator data
- B2) Solve problems encountered in ICU as regards infection and infection control, medico legal aspects

B3) Manage properly, and in the proper time different cases encountered in ICU

C-Professional & practical skills

By the end of the course, student should be able to:

- C.1) properly use monitors, ventilators and other ICU devices
- C.2) Perform intubation, CPR, obtain vascular access efficiently and in the proper time.
- C.3) Perform basic and advanced life support

D-General transferable (attitude and communication) skills

By the end of the course, student should 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

3-Course contents

Topics	lecture	Clinical/ lab
• Surgical Intensive Care	60	60

Topic	No. of hours (Lectures/)	No. of hours (Practical/Clinical)
Introduction	2	2
Design and organization of ICU	2	2
Vascular access in adults and pediatrics: peripheral venous lines cannulation, arterial sampling and cannulation, central venous catheter, Swan-Ganz catheter, intraosseous	3	3
CPR: basic, intermediate, advanced (in adults, pediatrics, pregnant, prone position), ATLS	3	3
Monitoring in ICU	3	3
Body fluid distribution in health and disease	2	2
Fluid therapy and blood transfusion in ICU	3	3
Regulation of body temperature and temperature disorders in ICU	3	3
Analgesia and sedation in ICU and regional blocks	3	3

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Radiology in relation to intensive care	3	3
Infection , infection control and infectious diseases in ICU	4	4
MODS and organ support	3	3
Acid-base and electrolyte disorders	3	3
Patient transport	1	1
Respiratory physiology	2	2
Respiratory problems in ICU	3	3
Airway management and ETT, Tracheostomy	2	2
mechanical ventilation	3	3
Thoracocentesis – Chest tube insertion and care	1	1
Bronchoscopy in ICU	1	1
Cardiovascular physiology	2	2
Coronary care unit and Cardiovascular problems in ICU	3	3
Cardioversion and defibrillation	1	1
Cardiac pacing	1	1
Peri-cardiocentesis	1	1
ECHO in ICU	2	2
Total (Actual hours)	60h	60h

4-Teaching and learning methods

Lectures, seminars, journal clubs, case presentation, assignments, conference participation observation and hands on practice in operating theaters and surgical ICU.

5-Student Assessment

- 1- MCQ End semester examination: C+ required for final exam attendance
- 2- Final exam included as apart of the 2nd part exam.

6- Weighing of assessments

Included in the end of the 2nd part exam.
will be annexed

7- List of references

Course notes

Lecture notes from Anesthesiology, Surgical intensive care and Pain management

Text book

Essential Books (Text Books)

- Anesthesia by Miller RD 6th edition, Elsevier Churchill Livingstone, New York, 2010.
- Lee's Synopsis of Anesthesia by: Davies NJH, Cashman JN, 13th edition, Elsevier, UK 2005.
- The ICU Paul L. Marino, 2nd edition, Lippincott Williams & Wilkins, Philadelphia 2012.

Recommended Books

- Stoelting's Anesthesia and Co-existing disease, 6th edition, By: Hines RL, Marschall KE, 2008, Elsevier Churchill Livingstone 2012.
- Anesthesiology: Problem-oriented patient management 7th edition, By: Yao FSN, Artusio JF, Lippincott Williams & Wilkins, Philadelphia 2012.

Web Sites

- British Journal of Anaesthesia
- ASA Refresher Course Lectures
- Anesthesiology
- Anesthesia Analgesia
- Egyptian journal of anesthesia
- Journal of Anesthesiology.
- American Society of Anesthesiologists.
- European Journal of Anesthesiology.

8-Other resources/ facilities required for teaching and learning to achieve the above ILOs

The department has regular daily lists in different operative theaters.

The department has Surgical ICU unit for postoperative care.

Free Internet access for international data bases is available for all doctorate students through the faculty postgraduate library

The essential text books for this course are available either in department or faculty library

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

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

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

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