



Quality Assurance Unit



Tanta University
Faculty of Medicine

**Department of Anesthesiology, Surgical intensive
care**

Course Specifications

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

2014

*Anesthesiology, Surgical intensive care Master
Course Specifications: 2014*

Course Specifications of Anesthesiology, Surgical intensive care Master degree

University: Tanta

Faculty: Medicine

Department: Anesthesia

A- Administrative Information

1. course title: ICU for Master 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 8007
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.

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

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

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

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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	1	1
Design and organization of ICU	1	1
Vascular access in adults and pediatrics: peripheral venous lines cannulation, arterial sampling and cannulation, central venous catheter	2	2
CPR: basic, intermediate, advanced (in adults, pediatrics)	2	2
Monitoring in ICU	1	1
Body fluid distribution in health and disease	2	2
Fluid therapy and blood transfusion in ICU	2	2
Regulation of body temperature and temperature disorders in ICU	2	2
Analgesia and sedation in ICU and regional blocks	2	2
Radiology in relation to intensive care	1	1
Infection , infection control and infectious diseases in ICU	1	1
MODS and organ support	1	1
Acid-base and electrolyte disorders	2	2
Patient transport	1	1
Respiratory system:	1	1
Respiratory physiology	1	1
Respiratory problems in ICU	2	2
Airway management and ETT, Tracheostomy	2	2
mechanical ventilation	2	2
Cardiovascular system:	1	1

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Cardiovascular physiology	1	1
Coronary care unit and Cardiovascular problems in ICU	2	2
Cardioversion and defibrillation	1	1
Renal physiology and renal protective measures	1	1
Renal problems in ICU	1	1
Renal replacement therapy	1	1
Endocrinology, metabolism and nutrition in ICU	1	1
GIT , liver and pancreatic disorders	1	1
Acute abdomen in ICU	1	1
Management of trauma patients	1	1
Surgical intensive care	1	1
Perioperative care of general surgical patients	1	1
Perioperative care of cardiothoracic patients	1	1
Neuro- surgery patients in ICU	2	2
Neuropsychiatric disorders	1	1
CSF aspiration and neuro-axial approach	1	1
Physiology of blood and coagulation	2	2
Hematologic disorders	1	1
Gynecologic and obstetric patients in ICU	1	1
Toxicology and drug abuse in ICU	1	1
Pediatric in ICU	1	1
Geriatric patients in ICU	2	2
Burn management in ICU	1	1
Brain death	2	2
Ethics and Medico-legal aspects in ICU	1	1
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

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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

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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.....