



COURSE SPECIFICATION

Intensive Care

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Program offering the course:	Postgraduate master degree of Anesthesia and Surgical Intensive Care and pain management
(2) Final award / degree	MSc degree
(3) Department offering the program:	Anesthesia and Surgical Intensive Care and pain management department
(4) Department responsible for teaching the course:	Anesthesia and Surgical Intensive Care and pain management department
(5) Part of the program:	Second part
(6) Date of approval by the Department's council	20-4-2016
(7) Date of last approval of program specification by Faculty council	9-8-2016
(8) Course title:	Intensive Care
(9) Course code:	ANET 528 IC
(10) Credit hours	3 hours lecture/2 hours clinical
(11) Total teaching hours:	45 lecture/60 clinical

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

- To provide the candidates the relationship of basic pharmacology and physiology with ICU management
- Allowing candidates to have the experience in collecting scientific data, how to prepare a research project, writing essays.
- To provide the candidates with updated data and researches concerned with practice in ICU

(2) Intended Learning Outcomes (ILOs):

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding

A1	Discuss ICU consideration of (adrenalin, atropine, glycopyrrolate, adenosine, verapamil, propranolol, Na nitroprusside, nitroglycerin, hydralazine, metoclopramide, naloxone, flumazenil, amiodarone)
A2	Identifies causes, investigation & management of aspiration pneumonitis.
A3	Define causes, clinical picture, investigation & management of pulmonary embolism.
A4	Discuss causes & management of oliguria.
A5	Discuss causes, treatment of electrolyte imbalance (Na ⁺ , K ⁺ , Ca ⁺⁺ , Mg ⁺⁺)
A6	Discuss causes, diagnosis & treatment of acid base disturbance.
A7	Describe modes, complication, weaning from mechanical ventilation

A8	Discuss indication, contraindication, value, technique of insertion & complication of central venous catheterization.
A9	List indication, contraindication, value & complication of noninvasive blood pressure monitoring.
A10	List types, advantages & disadvantages of fluid resuscitation.
A11	Discuss diagnosis of diabetic ketoacidosis.
A12	Mention causes, clinical picture & management of subarachnoid Hge.
A13	Mention indication, contraindication, components & complication of enteral & parenteral feeding.

B- Intellectual skills

B1	Demonstrate Origin, course, relations & distribution of all body vessels & nerves
B2	Analyze relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).

C-Professional/practical skills

C1	Perform full physical examination of patients with acute and chronic clinical conditions appropriate to the age, gender, acute and chronic clinical conditions and record patients ' data appropriately
C2	Be able to cannulation of central and peripheral veins, interpret ECG.
C3	Develop skills in laryngoscopy, intubation, mechanical ventilation and monitoring.

C4	Evaluate recovery of patients and recognize postoperative complications.
C5	Carry out first aid measures for injured and critically ill patients in emergencies.
C6	Perform medical researches of different medical conditions based on computer skill under supervision of senior staffs.
C7	Adjust suitable measures for infection control

D- Communication & Transferable skills

D1	Cooperate in teams in management of complications according to scientific base.
D2	Learn & teach in groups during interpretation of X-rays, C.T of the critically ill patients in ICU.
D3	Learn skills for planning and organization of infection control measures during practice

(3) Course content:

Subjects	Lectures
Management of Patients with Fluid & Electrolyte Disturbances	4
Acid–Base Balance	4
Central venous catheterization	4
Noninvasive blood pressure monitoring	4
Mechanical ventilation	6
Aspiration pneumonitis	2
Pulmonary embolism	4

Subarachnoid Hge	4
Oliguria	3
Diabetic ketoacidosis	4
Enteral and parenteral nutrition	6
Total teaching hours	45

Practical.

Subjects	
1-Physical examination	5
2-ECG interpretation	5
3-Central cannulation	5
4- Mechanical ventilation	18
5-Postoperative evaluation	5
6-Approach for emergency cases	7
7-Cardiopulmonary resuscitation	10
8-Approach for infection control	5
Total teaching hours	60 hour

(4) Teaching methods:

4.1: Lectures

4.2: Power point presentation

4.3: Small group discussion with case study and problem solving

(5) Assessment methods.

Written exam: 48 Marks

MCQ exam: 12 Marks

Structured oral exam: 25 Marks

OSCE: 25 Marks

(6) References of the course.

6.1: Miller's anesthesia

6.2: Clinical anesthesiology 4th ed

6.3: ICU Book 3rd ed

(7) Facilities and resources mandatory for course completion.

Lecture halls and data show.

Course coordinator: Dr. Maged Talaat Salama

Head of the department: Prof.Dr. Mona Abdelglil hashish

Date: 20/4/2016