COURSE SPECIFICATION

Applied Physiology related to Anesthesia & Intensive care

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Program offering the course:	**Postgraduate** Doctorate **degree of Anesthesia** and Surgical Intensive Care
(2) Final award / degree	**MD**
(3) Department offering the program:	**Anesthesia** and Surgical Intensive Care department
(4) Department responsible for teaching the course:	**Anesthesia** and Surgical Intensive Care 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:	**Applied Physiology related to Anesthesia &Intensive care**
(9) Course code:	**ANET 628 PHY**
(10) Credit hours	**One hour**
(11) Total teaching hours:	15 hour

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

- To educate students about a detailed study about physiological changes during anesthesia.
- To provide the students the relationship of basic physiology with anesthetic management for different body systems, their possible application in Anesthesia, Surgical Intensive Care and pain management

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A1	Define physiological changes in (CNS, respiration, CVS, renal, hepatic, hematology, GIT) during anesthesia
A2	Discuss effect of anesthetic agents on uterine activity & labor.
A3	Recognizes physiological consideration in respiratory diseases.
A4	Identifies control of respiration.
A5	Discuss physiology of nervous system (cerebral metabolism, cerebral blood flow, blood brain barrier & CSF circulation).
A6	Define physiological difference between adult & pediatric.
A7	List physiological changes in geriatric (CVS, CNS, respiration, renal & GIT).

B- Intellectual skills

B1	Interprets physiological changes during anesthesia for solving critical clinical problems under anesthesia.
B2	Construct appropriate management strategies for patients with common diseases, both acute and chronic of all body system during anesthesia.

(3) Course content:

Subjects	Lectures
Cardiovascular Physiology & Anesthesia	3
Respiratory Physiology and effects on Anesthesia	3
Control of breath	3
cerebral blood flow (circulation)	2
CNS Physiology	3
Renal Physiology	1
Total teaching hours	15

(4) Teaching methods:

4.1: Lecture

4.2: Power point presentation

4.3: Small group discussion with case study and problem solving

(5) Assessment methods:

5.1: Written exam for one & half hour including MCQ after 6 semesters of date of registration for graduate studies for M.D.

Assessment to the total mark:
Written exam: 64 Marks
MCQ exam: 16 Marks

(6) References of the course:

6.1: Miller's anesthesia

6.2: Clinical anesthesiology 4th ed

(7) Facilities and resources mandatory for course completion:

Lecture halls, clinical rounds and data show.

Course coordinator: Dr. Maged Talaat Salama

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

Date: 20/4/2016