COURSE SPECIFICATION

MD Pediatrics –First part

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course:	MD Pediatrics (PED 600)
(2) Department offering the programme:	Pediatrics
(3) Department responsible for teaching the course:	Physiology
(4) Part of the programme:	First part- Applied Physiology
(5) Date of approval by the Department`s council	27/4/2016
(6) Date of last approval of programme specification by Faculty council	9-8-2016
(7) Course title:	Applied Physiology
(8) Course code:	PED 603
(9) Total teaching hours:	45 hrs (3 credit hrs)

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows: (either to be written in items or as a paragraph)

1- Provide updated knowledge and understanding of the physiologic background and derangments of pediatric disorders

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A1.1Describe the mechanics of respiration, and physiology of gas exchange.

A 1.2 Discuss the physiologic aspects of renal functions and regulatory mechanisms of pH, acid base and electrolytes and glomerular filtration.

A 1.3 Identify the process and determinants of hematopoiesis, hemostasis and plasma composition and function.

A 1.4 Describe the cardiac cycles and regulatory mechanisms of arterial pressure, heart rate and cardiac output.

A 1.5 Discuss the GIT motility, secretions and physiology of digestion and absorption.

A 1.6 Identify regulation, mechanism of action and physiologic effects of hormones and hormonal control of growth.

A1.7 Identify the regulatory mechanisms of body fluid, body temperature and metabolism.

A1.8 Discuss cortical control of motor functions and the effects of upper and lower motor neuron lesions and function of extra-pyramidal system.

B- Intellectual skills

B1. Integrate the basic knowledge about the normal process of circulation, respiration, hormone secretion, hemostasis and homeostasis to understand different diseases of respiratory, cardiovascular, hematological and endocrinological systems.

B2. Evaluate CNS, renal and gastrointestinal functions and integrate the acquired knowledge to understand different diseases affecting these systems.

(3) Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Teaching Hours
Circulation -Cardiac output -Art. Bl. Pressure -HR regulation	√				7.5
Blood -Red blood cell & anemia -plasma -Platelets and hemostasis	√				6
Kidney -GFR -Function of renal tubules, base	√				7.5
Respiration -Mechanics of breathing. -Gas exchange	√				6
Endocrine -Pituitary -Thyroid -Adrenal gland	√				6
Digestion -GIT motility -secretions, bile -Absorption	√				6
CNS	√				6

(4) Teaching methods:

4.1:……Lectures……

4.2: ……

4.3: ……

4.4: ……

(5) Assessment methods:

5.1:…Written….. for assessment of……(knowledge, intellectual skills)

5.2:…Oral…….. for assessment of……(knowledge, intellectual, practical skills)

Assessment schedule: Final Exam

Percentage of assessment: 100 marks (14.28 %)

Written exam:……80 marks

Clinical exam:…… ……:……

Oral exam:…… ……

Semester MCQ:… 20 Marks…… %::……..

Other types of assessment:…… .%::……

Other assessment without marks: No

(6) References of the course:

6.1: Hand books:…Book notes of Physiology department……..

6.2: Text books:…Ganong Text book of physiology……

6.3: Journals:……

6.1: Websites:……

6.1: Others:……

(7) Facilities and resources mandatory for course completion:

- Lecture hall and data show

Course coordinator: Prof. Othman E. Soliman

Head of the department: Prof. Youssef Al-Tonbary

Date: