



COURSE SPECIFICATION

MSc Pediatrics –First part

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course.	MSc Pediatrics (PED 500)
(2) Department offering the programme.	Pediatrics
(3) Department responsible for teaching the course.	Physiology
(4) Part of the programme.	First part–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.	Physiology
(8) Course code.	PED 503
(9) Credit hours	1 hour
(10) Total teaching hours.	15 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)

Provide knowledge and understanding of the physiologic background of pediatric disorders

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

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

A 1.2. Discuss the physiologic aspects of renal functions and regulatory mechanisms of interstitial fluids and edema formation.

A 1.3. Identify the process and determinants of hematopoiesis and hemostasis

A 1.4. Describe the cardiac cycles and regulatory mechanisms of arterial pressure and cardiovascular reflexes.

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

A1. 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.

B- Intellectual skills

B1.Distinguish normal process of respiration, circulation, GIT motility, hematopoiesis, hemostasis, hormone secretion and homeostasis.

(3) Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Teaching Hours
Autonomic receptors	√				1
Respiratory function of blood & Regulation of acid – base balance	√				1
Factors affecting pulmonary ventilation	√				1
Cardiac properties & Cardio- vascular reflexes	√				1
Interstitial fluid formation and pathophysiology of oedema	√				1
Regulation of arterial blood pressure	√				1
Motor function of the GIT, its abnormalities	√				1
Biliary-secretion	√				1
Basal ganglia	√				1
Hypothalamic – pituitary – adrenal axis (HPA axis) , Physiology of growth, and its disturbances	√				1
Thyroid and suprarenal glands	√				1
Concentrating & diluting ability of the kidney	√				1
Role of kidney in regulation of extracellular fluid volume	√				1
Haemostasis	√				1
control of body temperature	√				1

(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,)
- 5.3 MCQ for assessment of.....(knowledge, intellectual,)

Assessment schedule: Semester & Final Exam

Percentage of Assessment to the total mark: 150 marks (7.14% of total)

Written exam:.....72 marks.....

Structured Oral exam:.....60 marks.....

Semester MCQ:...18 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:

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