
Course Specification

Course Title	Medical Physiology	
Course Code	Aswan/nur.114	
Academic Year	2014 - 2015	
Coordinator	Assistance lecture.	
Teaching Staff	physiology staff	
Branch / Level	First year.	
Semester	Long term	
Pre-Requisite		
Course Delivery	Lecture	15 x 2 h lectures
Parent Department		
Date of Approval	2014 - 2015	

1. Course Aims

The aims of this course are to:

By the end of the course, the student will be able to:

Describe the basis of the different physiological mechanisms and regulatory processes occurring at the different levels of all the body systems. And also to be able to briefly describe some of the pathophysiological aspects which could affect some systems in the body.

2. Intended Learning outcomes (ILOs)

A. Knowledge and understanding:

By the end of this course students should be able to:

- A1 Describe the origin, distribution, functions and chemical transmission of the autonomic nervous system.
- A2 Describe the different functions of the blood and its components.
- A3 Identify the general classification of the endocrine system and describe the hormones secreted by each gland .and the different functions of them in body.

- A4 Identify the general classification of the central nervous system and describe the nerve cells structures and their functions, the nerve impulse, the synapse, receptors and sensations, motor functions including upper motor neurons and lower motor neurons.
- A5 Identify the divisions of the digestive system. Describe the functions of each organ of the digestive system, the process of digestion and absorption and the control of digestion.

B. Intellectual skills:

By the end of the course, the student will be able to:

- B1. Compare between gastric, pancreatic, bile secretion.
- B2. Describe action of insulin.
- B3. Identify function of kidney.
- B4. Explain function of growth hormones.
- B5. Identify function of respiratory system.
- B6. Describe mechanism of contraction in cardiac muscle.
- B7. Describe mechanism of reflexes.

C. Professional and practical skills:

By the end of this course, the students should be able to:

- C1. Apply systemic structured observation of consumer reaction toward therapies.

D. General and transferable skills:

By the end of this course, the students should be able to:

- D1 Work effectively with team.
- D2 Motivate individual or groups to improve awareness, learning & behavior.

3. Course Contents:

Week	Topics
W1	Blood.
W2	Blood
W3	Physiology of the autonomic nervous system.
W4	Physiology of the autonomic nervous system.
W5	Digestive system.
W6	Digestive system.
W7	Muscle and nerve.
W8	Muscle and nerve.
W9	Respiration.
W10	Respiration.
W11	Respiration.
W12	Revision.
W13	Revision.
W14	Revision.

4. Teaching and Learning Methods

1. Group discussion.
2. Modified Lecture.

5. Student Assessment

Assessment Method	Assessment Length	Schedule	Proportion
Written Examination	2h	At the end of the semester.	80 score
Oral Assessment	-	-	20 score
Practical Examination	-	-	-
Semester work			-

6. List of references

1. Mackena B. and Callander R. (1997): Illustrated Physiology. Churchill livingstone.. Newyork Edinburgh Madrid Melbourne San Francisco and Tokyo

2. **Memmler RL, Cohen BJ. and Wood DL,(1992):** Structure and function of the human body..JB Lippincott Company.Newyork London Hagerstown 1992.
3. **Seeley RR. and Stephens TD (2002):** Essentials of Anatomy and Physiology.Mc Graw- Hill.Boston, Newyork.2002.

7. Facilities required for teaching and learning:

	Course Coordinator	Head of Department
Name	Prof.	Prof.
Name (Arabic)	أ. د.	أ. د.
Signature		منى حسن صديق
Date	/ /2014	/ /2015