

Course Specification

Physiology II

1. General Information:

Course Title	Physiology II
Code No.	PH722
Department	Physiology
Teaching Hours	250 hours
Language	English
Academic Year	Second Year
Course Coordinator	Dr. Ebtisam Omar Alsanosi
Date and Signature	September 2020

1.1 . Number of hours per week:

Lectures: 6hrs.

Laboratory: 2hrs.

Tutorial:2hrs.

Total: 10hrs.

2. Objectives of Course:

- To make advances in physiological basis that provided in the first year
- Explore in details the functions of the endocrinal, the reproductive the nervous, the renal & the digestive systems as well as their integration to achieve homeostasis.
- Integrate physiological data & mechanisms with the ongoing basic sciences: anatomy, histology & biochemistry and their clinical applications.

3. Intending Learning Outcomes (ILOs):

a. Knowledge and Understanding:

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

a.1	Describe the functions of the nervous, the endocrine, the reproductive , the renal and the digestive systems at the organ and at the molecular levels.
a.2	Discuss the metabolism from the physiology point of view

b. Intellectual skills:

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

b.1	Distinguish between physiological and pathological performance of different body systems
b.2	Suggest the basic physiological measurements used to test different body functions.
b.3	Integrate physiology with other sciences .

c. Practical and Professional Skills:

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

c.1	Perform a systematic examination of reproductive, digestive, renal and nervous system : types of sensations , motor system , tendons jerks and muscle
c.2	Perform the most important visual tests: corneal , light & accommodation reflexes, visual acuity , color vision and visual field defects .
c.3	Perform a preliminary examination of common endocrinal conditions: acromegaly , dwarfism and a thyroid disease (hypo or hyper).

d. General and Transferable skills:

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

d.1	Identify the essential ethical issues involved in scientific research.
d.2	Use a proper IT skills to present clearly and effectively scientific topics.
d.3	Work in team and show respect to colleagues and staff
d.4	Communicate orally and by writing

4. Course Contents:

Academic Subject	Total Hours (250)	Lectures	Laboratory	Tutorials
Central Nervous System	36	30	6	--
Special Sense	40	20	8	12
Endocrine	40	20	8	12
Reproduction	36	20	8	8
Digestion System	32	20	6	6
Metabolism	32	20	6	6
Renal System	34	20	8	6

5. Teaching and Learning Methods :

- Lectures
- Practical Sessions
- Tutorials
- Student Group Presentation

6. Evaluation Methods

Evaluation Method	Date	Marks 250	%	ILOs Assessed
1	Annual Work	50	20%	
	▪ Mid-year Exam	40		Knowledge, understanding and intellectual skills
	▪ Other quizzes	10		Knowledge, understanding and intellectual skills
2	Final Exam	200	80%	
	▪ Written	125		Knowledge, understanding and intellectual skills
	▪ Practical	50		knowledge, understanding and intellectual skills Practical and professional skills General and transferable skills
	▪ Oral	25		Knowledge, understanding and intellectual skills Professional, general and transferable skills

7. Evaluation Schedule:

Evaluation		Date
1	Mid-Year exam: Written exam includes different types of questions MCQs, True & False, short essay questions, matching and complete the blanks	January
2	Final written exam: consists of different types of questions MCQs, True & False, short essay questions, matching and complete the blanks	June
3	Practical exam: Perform tests related to subjects, spot diagnosis	
4	Oral exam: mainly conducted by external visitors	
5	Other quizzes	Before mid-year exam

8. References :

Reference Title	Publisher	Edition	Author	Place
Course handouts	==	==	Department staff	Library
Essential Books	Guyton on textbook of Human Physiology and Mechanisms of Disease	Philadelphia : Saunders	Arthur C. Guyton; John E Hall	==
Recommended Books:	Review of Medical Physiology	McGraw-Hill Medical	22 nd edition 2005	William F. Ganong ==

9. Required Facilities:

Required Facilities	Comments
Lecture Theatre	Provided by the Faculty (1 theater and 1 large hall).
Small group classes	in the Department (60 students).
Laboratory	laboratory facilities to perform the required experiments are available in the department.
Video zoom camera	Used in distance learning

Course Coordinator: Ebtisam Omar Alsanosi

Signature:

Programme Coordinator: Dr. Hussain Amaigil

Signature:.....

Head of Department: Ebtisam Omar Alsanosi

Signature:.....

Date: September 2020

Course ILOs Mapping Matrix – Physiology II

Topic	Knowledge and Understanding a		Intellectual Skills b			Practical and Professional Skills c			General and Transferable Skills d			
	1	2	1	2	3	1	2	3	1	2	3	4
Central Nervous System	x		x	x	x	x			x	x	x	x
Special Sense	x		x	x	x		x		x	x	x	x
Endocrine	x		x	x	x			x	x	x	x	x
Reproduction	x		x	x	x	x			x	x	x	x
Digestion System	x		x	x	x	x			x	x	x	x
Metabolism		x	x		x	x			x	x	x	x
Renal System	x		x	x	x	x			x	x	x	x