



MEDICAL DOCTORATE (MD) DEGREE PROGRAM AND COURSES SPRCIFICATIOBS FOR

MEDICAL PHYSIOLOGY

(According to currently applied credit points by laws)

Medical Physiology
Faculty of medicine
Aswan University

Program Specification For MD degree Medical Physiology Page **Contents** A. Basic Information 3 **B. Professional Information** 1. Program aims 3 2. Intended learning outcomes 3 (ILOs) for the whole program 3. Program structure and 4 contents 4- Assessment 5

A-Basic Information

- Program title: MD degree of medical physiology (PHY300)
- Nature of the program: Single
- Responsible department: Medical Physiology
- Head of department: Prof. Dr. Mahmoud Raafat Abdelfadeel

B- Professional Information

1- Program aims

- 1- To prepare a highly qualified physiologist.
- 2- To introduce candidates to the basics of scientific medical research.
- 3- To Provide candidates with fundamental Physiologic knowledge.
- 4- To Enable the candidates to understand and get the best of published scientific research and do their own.

2- Intended learning objects (ILOs)

2/1Knowledge and understanding:

- A- Explain the functions of all body systems at the organ level.
- B- Describe the general cellular mechanisms
- C- Demonstrate a basic understanding of the physiological background of applied physiology in medical practice.

2/2 Intellectual skills:

By the end of the program the candidate should be able to:

- A- Identify a research question.
- B- Plan research projects.
- C- Write a research protocol in a scientific base.
- D- Collect scientific information.
- E- Use statistical techniques to analyze and present scientific data
- F- Interpret clinical physiology test results.
- G- Write a scientific paper.

2/3 Professional and practical skills:

- A- Effectively teach physiological knowledge and demonstrate practical experiments to students at the undergraduate level.
- B- Effectively perform and interpret practical results
- C- Incorporate research and medical ethics in all areas of practice.

3- Program structure and contents

- A- Duration of program: 4-6 years.
- B- Total number of credit points: 420 CP

Program is divided into:

Part 1:

- Basic science courses:
 - Medical statistics.
 - Research methodology
 - Medicolegal Aspects & Ethics in Medical Practice and Scientific Research
 - Physiology 1

Applied Human Physiology of Cardiology Neurology and Chest

Students are allowed to set the exam of this course after 6 months from applying MD degree.

Elective course:

The student chooses two from the following courses:

- Advanced medical statistics.
- Evidence based medicine.
- Advanced infection control.
- Quality assurance of medical education.
- Quality assurance of clinical practice.
- Hospital management
- Thesis and two published researches:

Thesis should be registered within 12 months from applying MD degree.

Discussion and acceptance of thesis should not be set before 24 months from thesis registration.

Part 2:

- Advanced physiology course:
 - The cell and general Physiology Advanced Physiology of:
 - CVS
 - CNS, Special Sense and Autonomic Nervous System
 - Muscle and Nerve.
 - Endocrine and Reproduction
 - -Digestion
 - Respiration
 - General Metabolism
 - Blood and Immunity.
 - Kidney and Body Fluids

Students are not allowed to set the exam of this part before 4 years from applying to MD degree.

4- Assessment

Final Exam Part I:

Basic science courses:

Medical statistics & Research methodology, one paper written exam for 2 hours + oral exam.

Medicolegal Aspects and Ethics in Medical Practice and Scientific Research, Written exam in one paper for one hour + oral exam.

Applied Human Physiology, written exam in one paper for 3 hours + oral exam + practical exam.

Electives:

Two elective courses in two written exam papers each for one hour + oral exam.

Final Exam Part 2:

Advanced physiology:

written exam in four papers each paper for three hours + oral exam+ practical exam.