**Postgraduates Program Report**

**A- Basic Information**

**Program title:** second part of Master in physiology.

**Program type:** Single Double Multiple

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**Departments:** physiology Department.

**Coordinator:** Prof/ Mai M. Hassan

**External evaluator:** Prof. Dr. Hamed Osman. (Professor of physiology- El Azahar University)

**Year of operation: 2020**

**B- Statistic**

**1-** No. of students starting the program: **Three**

2- Ratio of students attending the program this year to those of last year**:(3:3)**

3- No. and percentage of students passing in each year **100%**

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| --- | --- | --- |
| **Year of study** | **Percent of successful students** | **of failed**  **students** |
| 2020 | 100% | 0% |
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**4- No. of students completing the program and as a percentage of those who started: 100%**

**5- Grading: No. and percentage in each grade:**

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| --- | --- | --- | --- | --- |
| **Academic**  **year** | **Excellent** | **Very good** | **Good** | **Fair** |
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**6-First destinations of graduates**

**Percentages of the graduating cohort who have**

i. Proceeded to appropriate employment: (promoted to higher degree)100%

ii Proceeded to other employment:

iii Undertaken postgraduate study: 100%

iv. Engaged in other types of activity:

v. Unknown first destination:

**C- Professional Information**

***Academic Standards***

**a.** Generic standards of postgraduate program prepared by National Authority of Quality Assurance and Accreditation of Education (NAQAAE).

**المعاييرالقياسية العامة لبرامج الدراسات العليا التي أعدتها الهيئة القومية لضمان جودة التعليم والاعتماد (2009)** **فبراير**

**b.** External reference (Benchmark) (attached): Doctorate degree in Doctoral Program in physiology Program of Michigan State University

**c**. Matrices:

1. Comparison between the intended learning outcomes (ILOs) of the Faculty of Medicine Zagazig university master degree in medical phsiology program and that of the Generic Academic standards of postgraduate program prepared by National Authority of Quality Assurance and Accreditation of Education.
2. **Achievement of program intended learning outcomes**

**Program ILOs:**

**By the end of the 2nd Master program in Medical Physiology the candidate became able to:**

1. **Knowledge and Understanding**

KU 1- Define autoregulation and list the major theories advanced to explain autoregulation in the kidneys.

KU.2- Discuss Body fluid compartments.

KU 3- Outline tubular handling of Na+, K+, Ca ++, Mg+, urea, amino acids, Glucose, and water.

KU.3- Discuss etiology and types of edema.

KU.4- Explain mechanisms of formation of hypertonic or hypotonic urine by the kidney

KU.5- Discuss Regulation of ECF osmolality.

KU.6- Outline the processes involved in the secretion of H+ into the tubules and discuss the significance of these processes in the regulation of acid–base balance.

KU 7- List the principal buffers in blood, interstitial fluid, and intracellular fluid, and, using the Henderson–Hassel balch equation, describe what is unique about the bicarbonate buffer system.

KU 8- Describe the changes in blood chemistry that occur during the development of metabolic acidosis and metabolic alkalosis or in respiratory acidosis and respiratory alkalosis, and the respiratory and renal compensations for these conditions.

KU 9- Recognize types and mechanism of actions of diuretics.

KU 10- Discuss higher and lower control of micturition reflexes and draw a cysto metrogram.

**B: Intellectual Skills**

IS.1 Integrate facts about function of different organs subserving the homeostasis.

IS.2 Solve medical problems related to diagnosis & treatment of physiological problems as: pH, osmolarity, etc….

IS.3 Observe scientific phenomena during the practical study.

IS.4 Integrate facts about function of different chemical compounds inside the body.

IS.5 Deal with experimental animal as: Rats , Frogs , and Rabbits.

IS.6 Analyze & interpret some physiological records (ECG & spirogram) and some laboratory tests (blood count, hemoglobin, pregnancy tests).

1. **Professional/practical skills**

P.S.01- Perform Pulmonary function tests

P.S.02- Record of G.I.T. motility

P.S.03- Examine Nervous reflexes

**D- General &Transferable skills**

GS1- Communicate efficiently, sensitively and clearly with colleagues.

GS2- Communicate efficiently, respectively and clearly with supervisors

GS3- Be prepared for lifelong learning

GS4- Use information and communication technology

GS5- Present information clearly in written, electronic and oral formats

GS6- Communicate ideas and arguments effectively

GS7- Work effectively with a team.

GS8-Teach and Evaluate others.

**Achievement of programme aims:**

At the end of this programme is the candidate become able to undertake comprehensive up-to-date practices of medical physiology in a professional manner to apply basics and strategies of scientific research and to gain the a quired **awareness with** recent advances in medical phsiology and its applications.

**10. Progress of previous year’s action plan**

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| **Action** | **Man in charge** | **Time** | **Actual achievement** | **Reason for delay and Solution** |
| **Make an official**  **Facebook page**  **For postgraduate**  **students** | **Staff members** | **2019-2020** | **100%achived** |  |

**11. Action plan**

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| **Actions required** | **Time from to** | **Person responsible** |
| **Special units for** |  |  |
| **Postgraduate and** | **2021-2022** | **Staff members** |
| **Central lab** |  |  |
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**Program Coordinator** Prof/ Mai M. Hassan