



Master (MSc) Program & Course Specifications in Medical Parasitology 2022/2023

Program Specification for Master Degree in Medical Parasitology

- **University: MINIA**
- **Faculty (s): MEDICINE**
- **Department: Medical Parasitology**

A- Basic Information

1- Program title: Program Specification for Master Degree In Medical **Parasitology**

2- Code: <u>PR200</u> 3- Final award : Master degree in Medical Parasitology

4- Program type: <u>Single</u> * **Double** Multiple

5- Department responsible for offering the degree: Medical Parasitology dept.

6- Departments involved in the program: Medical Parasitology and Public health and Preventive medicine departments.

7- Program duration : 2 years

8- Number of program courses : Two (Medical Parasitology and Public health and preventive medicine courses)

9- Coordinator: Dr. Manar mostafa Dr. Reham Ahmed (lecturer (lecturer of Medical Parasitology)

(lecturer of Medical of Parasitology)

10- External Evaluator(s): Prof.Dr. Ahmed Kamal Dyab Professor of Medical Parasitology, Faculty of Medicine, Assuit University.

11- Internal Evaluator:

-Ass.Prof.Dr. Noha Hamed Abdel Gelil (Assistant Professor of Medical Parasitology, Faculty of Medicine, Minya University.

12- Last date of program specifications update: Mach 2023

B-Professional Information.

1-Program Aims

The aim of this program is to provide the postgraduate student with the medical knowledge and skills (covering medical helminths, protozoa and vectors) essential for practice in the field of Medical parasitology through providing:

- 1. Scientific knowledge essential for practice Medical Parasitology.
- 2. Master a variety of technical skills in Medical Parasitology and expert relevant equipment, technology, and software.

3. Maintenance of self-learning, modern technological aids and research abilities necessary for continuous professional development.

4. Ethical principles related to the practice in Medical parasitology field.

5. Awareness of its role in community health development.

2- Intended learning outcomes (ILOs)

a- Knowledge and understanding:

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

a1. Discuss detailed knowledge and understanding of the biology, life cycles, world distribution, pathogenesis, diagnosis of medical parasitic infections and epidemiologic principles and the effect of social and demographic patterns on parasitic disease and vulnerability.

a2. Discuss detailed knowledge and understanding of the biology and strategies for control of the vectors and intermediate hosts of human parasites.

a3. Identify different traditional and advanced diagnostic procedures and its reflection on the environment.

a4. Define the recent immunological responses and the possible dynamics of immune protective mechanisms.

a5. Recognize the basis of ethical and legal aspect of professional practice, related to the medical parasitology

a6. Recognize quality control activities to gain accurate and reliable research results.

a7. Identify the clinical research ethics, design principles, implementation, and interpretation and the ability to design a laboratory or field-based research project, apply relevant research skills.

b- Intellectual skills

By the end of the program the student should have the ability to:

b1. Solve complex problems and reviewing related information to develop and evaluate options and implement solutions.

b2. Analyse clinical and investigational data to develop skill of logic reasoning for clinical problem solving.

b3. Interpret experimental data in an appropriate scientific format.

b4. Design an appropriate research work for carrying out a medical research thesis under supervision.

b5. Evaluate research hazards and risk (when changes in practices, instrumentation, or facilities)

b6. Establish clear goals, quickly learn new technological advancements, and attend workshop and training courses.

b7. Analyse a situation, predict possible outcomes and come up with a solution or action in an efficient time frame.

c- Professional and practical skills

By the end of the course the student should have the ability to mark the basic and modern professional skills in the area of medical parasitology

c1. Carry out practical laboratory identification of the various parasite stages both free and in tissues and diagnose infections.

c2. Prepare the various parasitic stages both free and in tissues and to report properly positive findings in different samples.

c3. Deal with lab animals: infecting, sacrifice, dissecting and examining.

c4. Carry out some advanced diagnostic procedures

c5. Prepare a written report including a critical literature review of relevant scientific publications

c6. Demonstrate proficiency in evaluating technical tools used in research.

c7. Assess and evaluate findings from appropriate peer-reviewed journals.

c8. Design variable epidemiological studies of some parasitic infections in Egypt.

d- General and transferable skills

By the end of the program the student should have the ability to:

d1. Communicate effectively face-to-face, e-mail, and written reports

d2. Use computers efficiently in reaching biomedical information to remain updated with advances in knowledge and practice

d3. Monitor/Assess his own performance, and other individuals' performance to make improvements or take corrective action.

d4. Conduct research using the internet and library resources.

d5. Perform self and peer evaluation

d6. Able to work with others towards a common goal

d7. Manage laboratory work time, scientific meeting deadlines and

Prioritizing tasks

d8. Adopt lifelong learning

3- Program Academic Reference Standards (ARS)

Academic standards for master degree in Medical Parasitology

- Faculty of Medicine, Minia University adopted the general national academic reference standards provided by the national authority for quality assurance and accreditation of education (NAQAAE) for all postgraduate programs. (Faculty Council decree No.6854, in its cession No.177 Dated: 18\5\2009.) **{Annex 1}**.
- Minia faculty of medicine has developed the academic standards (ARS) for Master (MSc) program and was approved in faculty Council decree No.7528, in its cession No.191, dated: 15/3/2010, last update: 20/2/2023. {Annex 1}.
- Then Medical Parasitology department has developed the intended learning outcomes (ILOs) for Master (MSc) program in Medical Parasitology and the Date of program specifications 1st approval by department council: dated: 13\5\2013) and the last update in department council: 6\3\2023. {Annex II}.

4- Program external references: No External references (Benchmarks)

5 - Program structure:

-Program duration: 2years at least

| | hours /week | |
|--|-----------------|------------------|
| Subject | Lectures | Practical |
| First Part: | | |
| Public health and Preventive Medicine | 2 hours/week | 1 hours/ week |
| Second Part: | | |
| Medical Parasitology | 3 hours/week | 3 hours/week |

- Levels of program in credit hours system: Not applicable

6- Program courses: Two courses;

- 1- Public health and preventive medicine course (elective course)
- 2- Medical Parasitology course (compulsory).

N.B: Courses' specifications are present in AnnexVI, VII and correlation of Program ILOs with program content in AnnexV

<u>1st part:</u>

Lectures: 60 hours; 2hours/week.

Practical/clinical: 30 hours; 1 hours/week.

The total number of weeks: 30 weeks

2nd part:

Lectures: 90 hours; 3 hours/week.

Practical/clinical: 90 hours; 3 hours/week.

The total number of weeks: 30 weeks

| | | Total No. of | No. of ho | ours /week | Program ILOs |
|--|--------------------------------|--|-----------|------------|--|
| | Course Title | Hours | Lect. | Lab. | |
| | | | | | |
| | | | | | |
| FIRST PAR | Γ | | | | |
| <u>a-</u> | Public health and Community | 60 hours Theoretical 30practical | 2 | 1 | a1,a2, a3,a5, a6,a7, b1,b2,b3,b4,b5,b6,b 7,c5, c5,c7 d1,d2,d3, d4,d5,d6, d7,d8 |
| SECOND PA | SECOND PART | | | | |
| <u>a-</u> <u>Compulsory</u> <u>:</u> | Medical Parasitology | 3x30 week= 90 hours theoretical 90 practical | 3 | 3 | a1,a2, a3,a4,a5,a6,a7,b1,b 2,b3,b4 b5,b6,b7, ,c1,c2,c3,c4,c5.c6,c 7 d1,d2,d3,d4,d5,d6,d 7, d8 |

6- Program admission requirements

<u>1. General requirements:</u>

A. Candidates should have either:

1. MBBCH degree from any Egyptian faculty of medicine or

2. Equivalent degree from medical schools abroad approved by the ministry of higher education

B. Candidate should complete the house office training year.

C. Candidate should follow postgraduate regulatory rules of Minia Faculty of Medicine (TOEFL, SPSS certificate)

<u>2. Specific requirements:</u>

A. Candidates graduated from Egyptian universities should "Good Rank" in their final year/cumulative years examination and grade "Good Rank "in Medical Parasitology course too.

7- Regulations for progression and program completion

Duration of program is 2years, starting from registration till the second part exam; divided to:

First Part: Duration of program is 1years, starting from registration till the second part exam; divided to:

• Program-related basic science; General epidemiology, Demography, Medical Statistics, epidemiology of communicable and non- communicable diseases and Nutrition

• At least 12 months after registration should pass before the student can ask for examination in the 1st part.

• Two sets of exams: 1st in April — 2nd in October.

• For the student to pass the first part exam, a score of at least 60% in each curriculum is needed (with at least 40% of the written exam).

• Those who fail in the curriculum need to re-exam it only.

Thesis :

- Protocol of the thesis should be started after passing the 1st part.
- Thesis should be completed, and accepted a minimum of 6 months after protocol registration up to a month prior to enrolment to the 2nd part final exam.
- Accepting the thesis occurs after acceptance and\ or publishing one thesis-based paper in local or international journal and this is adequate to pass this part.

Second Part: (12 months):

- Program related specialized science Medical Parasitology Courses.
- Actual work for 12 months as a demonstrator /trainee in Medical Parasitology department.
- The student should pass the 1st part before permitted enrolment to the 2nd part exam.
- Two sets of exams: 1st in April 2nd in October.
- For the student to pass the second part exam, a score of at least 60% in each curriculum is needed (with at least 40% in the written exam).

- Fulfillment of the requirements in each course as described in the template and registered in the log book is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; as following:
 - Training courses
 - •Conference attendance
 - •Thesis discussion attendance
 - •Workshops

- Case presentation
- Seminars
- Self educational training
- Two sets of exams: 1st in April—2nd in October.
 - For the student to pass the second part exam, a score of at least 60% in each curriculum is needed (with at least 40% of the written exam).

8- Teaching and learning methods:

- a- Lectures.
- b- Practical training and demonstration weekly throughout the course.
- b- Self-training activities such as use of internet and multimedia.
- c- Seminars, presentations and assignments.
- d- Training courses & workshops.
- e- Thesis discussion attendance.
- f- Conference attendance Matrix of coverage of course ILOs by Methods of Teaching and Learning (Annex III)
- 9- Methods of student assessment:
 - 1. Paper based exam:
 - Short essay
 - MCQs
 - Problem solving
 - 2. Practical Exams:
 - OSPE
 - Statistical analysis of data
 - 3. Oral Exams

Matrix of coverage of course ILOs by Methods of assessment (Annex IV)

Weighing of assessment:

It is mandatory to pass all the papers of written exams separately

| Course | written | oral | Practical | Total |
|--|---|------|-----------|-------|
| 1- Public health and preventive medicine) | 120 | 90 | 90 | 300 |
| 2- Medical Parasitology course | 280 1 st paper 140 2 nd paper 140 | 220 | 200 | 700 |

10-Evaluation of program intended learning outcomes

| Evaluator (By whom) | Method/tool | Sample |
|------------------------------|----------------|----------------------|
| 1. Senior students (Students | Questionnaires | Attached to the file |
| of final years) | | |
| 2. Graduates (Alumni) | Questionnaires | Attached to the file |
| 3. Stakeholders | Meeting | Attached to the file |
| | Questionnaires | Attached to the file |
| 4. External & Internal | Reports | Attached to the file |
| evaluators and external | | |
| examiners | | |
| 5. Quality Assurance Unit | Reports | Attached to the file |
| | Questionnaires | Attached to the file |
| | Site visits | Attached to the file |

Coordinator:

- Prof. Dr. Azza Kamal Ahmed
- Dr. Manar Mostafa Nagi
- Dr. Reham Ahmed Mahmoud Abd Rabou
- ➢ Ass. Lecturer. Seham Ibrahim Mohamed

Head of Department:

Prof. Dr Manal Zaki Mohammed

Date of program specifications 1st approval by <u>department council</u>: 13/5/2013.

Date of <u>last update</u> & approval by <u>department council</u>: 6/3/2023 Annex (1): Comparison between National Academic Quality Assurance & Accreditation (NAQAAE) General Academic Reference Standards (GARS) and Faculty Academic Reference Standards (ARS)

| NAQAAE | Faculty |
|---|---|
| برامج الماجستير | Master (MSC) Program |
| ۱. مواصفات الخريج: | 1. Graduate Attributes: |
| خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا على | Graduate of master (MSC) program should be able to: |
| .1.1إجادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة. | 1.1. understanding and applying of basics of research method and research tools |
| .2.1 تطبيق المنهج التحليلي واستخدامه في مجال التخصص | 2.1. Critically analyze, evaluate, and effectively communicate findings, theories, and methods |
| 3.1 تطبيق المعارف المتخصصة و دمجها مع المعارف ذات العلاقة في ممارسته المهنية. | 3.1. Apply integrated professional and general knowledge in his scholarly field and at the interface between different fields. |
| 4.1 إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص. | 4.1. Demonstrate awareness of community health needs related to the field of specialization by understanding the beneficial interaction with the society to improve quality of life |
| 5.1. تحديد المشكلات المهنية وإيجاد حلولا لها. | 5.1. Demonstrating proficiency, required to solve current complex problems in his scholarly field. |
| 6.1 إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية. | 6.1. Master a variety of technical skills in his scholarly field and expert relevant equipment, technology, and software. |

| .7.1 لتواصل بفاعلية والقدرة على قيادة فرق العمل. | 7.1. Gain leadership skills and be able to communicate efficiently with colleagues and get the best results. |
|--|---|
| .1. اتخاذ القرار في سياقات مهنية مختلفة. .1. توظيف الموارد المتاحة بما يحقق أعلى استفادة | 8.1. Take professional situational decisions and logically support them.9.1.Optimal use of available resources to |
| و الحفاظ عليها | achieve research or best patient health care and ensure its maintenance. |
| .10.1 إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات. | 10.1. Demonstrate awareness of its role in community health development and |
| .11.1 التصرف بما يعكس الالتزام بالنزاهة والمصداقية والالتزام بقواعد المهنة. | 11.1. Exhibit ethical behavior that reflect commitment to the code of practice |
| .12.1 تنمية ذاته أكاديميا ومهنيا و قادرا علي التعلم المستمر. | 12.1. demonstrate the ability to sustain a lifelong personal and professional growth. |
| ٢ الموارير القراسية الولمة. | 2 Faculty Academic Reference |
| NAQAAE General Academic Reference Standards "GARS" for Master Programs | Standards (ARS) for Master Program |
| NAQAAE General Academic Reference Standards "GARS" for Master Programs | 2.1. Knowledge & Understanding: Upon completion of the Master Program in, the graduate should have sufficient knowledge and understanding of: |
| بالمحديير المياسية المحدة. NAQAAE General Academic Reference Standards "GARS" for Master Programs | 2. Taculty Actue Reference Standards (ARS) for Master Program 2.1. Knowledge & Understanding: Upon completion of the Master Program in, the graduate should have sufficient knowledge and understanding of: 2.1.1. Understand the scientific basis and modern knowledge in the field of specialization and related medical sciences |
| بالمحديير المياسية المحدة. NAQAAE General Academic Reference Standards "GARS" for Master Programs المعرفة والفهم: المعرفة والفهم والدراية بكل من: الخريج قادرا علي الفهم والدراية بكل من: المعارف في مجال التخصص والمجالات ذات العلاقة وانعكاسها علي البيئة | 2. The dury frequence Reference Standards (ARS) for Master Program 2.1. Knowledge & Understanding: Upon completion of the Master Program in, the graduate should have sufficient knowledge and understanding of: 2.1.1. Understand the scientific basis and modern knowledge in the field of specialization and related medical sciences 2.1.2. The mutual influence of professional practice on work environment, working conditions, and job characteristics. |

| ٢,١,٤. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص | 2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors |
|---|--|
| ٢,١,٥. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص | 2.1.5. Quality principles in the scholarly field |
| ٢,١,٦ أساسيات وأخلاقيات البحث العلمي | 2.1.6. Basis of research methodology and medical ethics. |
| .2.2المهار ات الذهنية: | 2.2. Intellectual Skills: |
| بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على: | Upon completion of the master program of, the graduate should be able to: |
| تحليل وتقييم المعلومات في مجال .2.2.1 التخصص والقياس عليها لحل المشاكل | 2.2.1. Use judgment skills for analytical and critical problem solving |
| حل المشاكل المتخصصة مع عدم توافر 2.2.2 بعض المعطيات | 2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems |
| الربط بين المعارف المختلفة لحل المشاكل 2.2.3 المهنية | 2.2.3. Be capable of integrating research results and/or results of history, physical and laboratory test findings to solve a research or a clinical problem. |
| إجراء دراسة بحثية و/أو كتابة دراسة .2.2.4 | 2.2.4. Effectively apply research methods and |
| علمية منهجية حول مشكلة بحثية | carrying out a medical research thesis |
| تقييم المخاطر في الممارسات المهنية في 2.2.5. مجال التخصص | 2.2.5. Be aware of risk management principles, and patient safety. |
| التخطيط لتطوير الأداء في مجال التخصص .2.2.6 | 2.2.6. Establish goals, commitments, and strategies for improved professional performance in the field of specialty |
| اتخاذ القرارات المهنية في سياقات مهنية 2.2.7 متنوعة | 2.2.7. Take professional situational decisions and logically support them. |
| .3.2 المهارات المهنية: | 3.2. Professional Skills: |
| بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على: | Upon completion of the master program of, the graduate must be able to: |
| إتقان المهارات المهنية الأساسية والحديثة 3.2.1. في مجال التخصص. | 3.2.1. Master the basic and some advanced professional skills in his scholarly field. |

| · · · | |
|--|---|
| ٢,٢,٣كتابة و تقييم التقارير المهني. | 3.2.2. Write and evaluate medical or scientific |
| | reports |
| | |
| ٣,٣,٢ تقييم الطرق والأدوات القائمة في مجال | 3.2.3. Assess and evaluate technical tools |
| التخصص | during research |
| 6 | |
| 4.2.المهارات العامة والمنتقلة : | 4.2. General and transferable skills |
| بانتها دراسة ببناك الباجستين ببيريأن بكين | Upon completion of the master program of |
| باللهاء در الله بر نامج الماجستير يجب ال يحون | the graduate should be able to: |
| الخريج قادرا على: | |
| ٤,٢,١ إلتو اصل الفعال بأنو اعه المختلفة | 4.2.1. Communicate effectively using a written |
| 3 1 2 3 1 | medical record, electronic medical record, or other |
| | digital technology. |
| | |
| ٤,٢,٢ ياستخدام تكنولوجيا المعلومات بما يخدم | 4.2.2. Use of information technology |
| الممار سة المهنية | (computer to create, process, store, secure and |
| | exchange electronic data) in the field of |
| | medical practice. |
| | |
| 4.2.3. لتقييم الذاتي وتحديد احتياجاته التعلمية | 4.2.3. Assess himself and identify personal |
| الشخصية | learning needs |
| | |
| 4.2.4 استخدام المصادر المختلفة للحصول على | 4.2.4. Use various sources for information |
| المعلومات والمعارف | (physical and digital sources). |
| 5 5 5 | |
| 4.3.5. وضع قواعد ومؤشر ات تقبيم أداء الآخرين | 4.2.5. Setting indicators for evaluating the |
| | performance of others |
| | • |
| 4.2.6. العمل في فريق، وقيادة فرق في سياقات | 4.2.6. Work in a team, and Apply leadership |
| مهنية مختلفة | skills to enhance team functioning, the learning |
| | environment, and/or the health care delivery |
| | system |
| | 4.2.7 Manage time of C in (1 |
| 4.2.7. إدارة الوقت بخفاءة | 4.2.7. Manage time efficiently |
| ۲.۸.۶ التعلم الذاتي، والمستمر | 4.2.8. Demonstrate skills of self-learning and |
| | lifelong learning needs of medical profession |
| | |
| | |

ANNEX II: Matrix between Faculty ARS VS. Msc PROGRAM of Medical Parasitology.

| Parasitology 2.1. Knowledge & Understanding: Upon completion of the Master Program in, the graduate should have sufficient knowledge and understanding of: |
|--|
| 2.1. Knowledge & Understanding: 2.1. Knowledge and Understanding Upon completion of the Master Program in, the graduate should have sufficient knowledge and understanding of: 2.1. Knowledge and Understanding |
| 2.1. Knowledge & Understanding:2.1. Knowledge and UnderstandingUpon completion of the Master Program in, the graduate should have sufficient knowledge and understanding of:2.1. Knowledge and Understanding Upon completion of the master Program (MSc) in Medical Parasitology the graduate should be able to: |
| Upon completion of the Master Program in, the graduate should have sufficient knowledge and understanding of: Upon completion of the master Program (MSc) in Medical Parasitology the graduate should be able to: |
| Upon completion of the Master Program in , the graduate should have sufficient knowledge and understanding of: Medical Parasitology the graduate should be able to: |
| understanding of: |
| understanding of: |
| |
| 2.1.1. Understand the scientific basis and modern a1. Discuss detailed knowledge and understanding |
| knowledge in the field of specialization and related of the biology, life cycles, world distribution, |
| medical sciences pathogenesis, diagnosis of parasitic infections in |
| humans and epidemiologic principles and the effect |
| of social and demographic patterns on parasitic |
| disease and vulnerable group. |
| a2. Discuss detailed knowledge and understanding |
| of the biology and strategies for control of the |
| vectors and intermediate hosts of human parasites. |
| 2.1.2. The mutual influence of professional practicea3. Identify different traditional and advanced |
| on work environment, working conditions, and job diagnostic procedures and its reflection on the |
| characteristics. |
| 2.1.3. Scientific developments in the field of a4. Define the recent immunological responses and the |
| specialization possible dynamics of immune protective mechanisms. |
| |
| |
| 2.1.4. Recognize basics of medico-legal aspects of a5. Recognize the basis of ethical and legal aspect of |
| practice, malpractice and avoid common medical professional practice, related to the medical |
| errors parasitology |
| 2.1.5. Quality principles in the scholarly field and a Becognize quality control activities to gain |
| accurate and reliable research results |
| 2.1.6. Basis of research methodology and medicala7. Identify the clinical research ethics, design |
| ethics. principles, implementation, and interpretation |
| and the ability to design a laboratory or field- |
| based research project, apply relevant research |
| skills |
| 2.2. Intellectual Skills:2.2. Intellectual skills: |

| Upon completion of the master program of, the graduate should be able to: | Upon completion of the master program (MSc) in Medical Parasitology, the graduate must be able to: | |
|--|--|---|
| 2.2.1. Use judgment skills for analytical and critical problem solving | b1. Solve complex problems and reviewing related information to develop and evaluate options and implement solutions. | |
| 2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems | b2. Analyze clinical and investigational data to develop skill of logic reasoning for clinical problem solving | |
| 2.2.3. Be capable of integrating research results and/or results of history, physical and laboratory test findings to solve a research or a clinical problem. | b3. Interpret experimental data in an appropriate scientific format. | |
| 2.2.4. Effectively apply research methods and carrying out a medical research thesis | b4. Design an appropriate research work for carrying out a medical research thesis under supervision | |
| 2.2.5. Be aware of risk management principles, and patient safety. | b5. Identify and evaluate research hazards and risk (when changes in practices, instrumentation, or facilities) | |
| 2.2.6. Establish goals, commitments, and strategies for improved professional performance in the field of specialty | b6. Establish clear goals, quickly learn new technological advancements, attend workshop and training courses. | |
| 2.2.7. Take professional situational decisions and logically support them. | b7. Analyze a situation, predict possible outcomes and come up with a solution or action in an efficient time frame. | t |
| 3.2. Professional Skills: | 3.2. Professional Skills: | |
| Upon completion of the master program of, the graduate must be able to: | Upon completion of the master program (MSc) in Medical Parasitology, the graduate must be able to: | |
| 3.2.1. Master the basic and some advanced professional skills in his scholarly field. | c1. Carry out practical laboratory identification of the various parasite stages both free and in tissues and diagnose infections. | |
| | c2. Prepare the various parasitic stages both free and in tissues and to report properly positive findings in different samples. | |

| | c3. Deal with lab animals: infecting, sacrifice, dissectin and examining. c4. Carry out some advanced diagnostic immunological procedures. c8. Design variable epidemiological studies of some parasitic infections in Egypt. | ıg |
|--|---|-----------|
| 3.2.2. Write and evaluate medical or scientific reports | c5. Prepare a written report including a critical literature review of relevant scientific publications | 3 |
| 3.2.3. Assess and evaluate technical tools during research | c6. Demonstrate proficiency in evaluating technical tools used in research. c7. Assess and evaluate findings from appropriate peereviewed journals. | ۶r- |
| 4.2. General and transferable skills | 4.2. General and transferable skills | |
| Upon completion of the master program of, the graduate should be able to: | Upon completion of the master program (MSc) in Medical Parasitology, the graduate must be able to |): |
| 4.2.1. Communicate effectively using a written medical record, electronic medical record, or other digital technology. | d1. Communicate effectively face-to-face, e-mail, and written reports | |
| 4.2.2. Use of information technology (computer to create, process, store, secure and exchange electronic data) in the field of medical practice. | d2. Use computers efficiently in reaching biomedical information to remain updated with advances in knowledge and practice | |
| 4.2.3. Assess himself and identify personal learning needs | d3. Monitor/Assess his own performance, and othe individuals performance to make improvements or take corrective action. | r |
| 4.2.4. Use various sources for information (physical and digital sources). | d4. Conduct research using the internet and library resources. | 7 |
| 4.2.5. Setting indicators for evaluating the performance of others | d5. Perform self and peer evaluation | |
| 4.2.6. Work in a team, and Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system | d6. Able to work with others towards a common goal | |

| 4.2.7. Manage time efficiently | d7. Manage laboratory work time, scientific meeting deadlines and Prioritizing tasks | |
|--|--|--|
| 4.2.8. Demonstrate skills of self-learning and | d8. Adopt lifelong learning | |
| lifelong learning needs of medical profession. | | |

Annex (III):

Matrix of coverage of program ILOs by Methods of Teaching and Learning (Annex III)

| Teaching and learning methods | The assessed ILOs |
|---|---|
| • Lectures | a1, a2, a3, a4, a5, a6, a7, b1, b2, b3, b4, b5, b6, b7. |
| • Thesis | a1, a2, a3, a4, a5, a6, a7, b1, b2, b3, b4, b5, b6, b7 c1, c2, c3, c4, c5, c6, c7, d1, d2, d3, d4, d5, d6, d7, d8. |
| Practical sessions: 1-Observation of different light microscopic slides 1- Light microscopic slides preparation and examination 2- Statistical analysis of different data. | c1, c2, c3, c4, c5, c6, c7, d2, d3, d6, d7, d8 |
| Self-training activities seminars, presentations & assignments. Training courses & workshops. Thesis discussion attendance. Conference attendance | d1, d2, d3, d4, d5, d6, d7, d8 |

Annex IV: Matrix of coverage of program ILOs by Methods of assessment

| Method of assessment | The assessed ILOs |
|--|---|
| Paper based Exams: Short essay MCQs | a1, a2, a3, a4, a5, a6, a7, b1, b2, b3, b4, b5, b6, b7. |
| Problem solving 2. Practical Exams: OSPE Interpret slides with detailed | c1, c2, c3, c4, c5, c6, c7, d2,d3,d6,d7,d8 |
| Statistical analysis of data | |
| 3. Oral Exams | a1, a2, a3, a4, a5, a6, a7, b1, b2, b3, b4, b5, b6, b7, d1,d3,d5 |

| Annex V: Correlations | between F | Program | ILOs | & program | content |
|-----------------------|------------------|---------|------|-----------|---------|
|-----------------------|------------------|---------|------|-----------|---------|

| | Program Inten | Program Intended Learning Outcomes (ILOs) | | | | |
|---|------------------------------------|---|---------------------------------------|-------------------------------------|--|--|
| Courses | | | | | | |
| (List of courses in 1 st and 2 nd narts) | A. Knowledge & Understanding | B. Intellectual Skills | C. Professional & Practical skills | D. General & Transferable Skills | | |
| par co) | a | b | c | D | | |
| 1. Public health and Community | a1,a2,a3, a5, a6, a7 | b1, b2, b3, b4, b5, b6, b7, b8 | c5,c6, c7,c8 | d1,d2,d3, d4,d5,d6, d7 | | |
| 2. Thesis | a1,a2,a3, a5, a6, a7 | b2,b3, b4,b5, b6, b7 | c1,c2, c3, c4, c5,c6, c7, c8 | d1, d2, d4, d6, d7 | | |
| 3. Medical Parasitology | a1,a2,a3, a5, a6, a7 | b1,b2,b3,b4,b5,b6,b7 | c1,c2,c3,c4,c5.c6,c7, c8 | d1,d2,d3,d4,d5,d6,d7 | | |

Program Coordinator:

- Prof. Dr Azza Kamal Ahmed
- Dr. Manar Mostafa Nagi
- Dr. Reham Ahmed Abd Rabou
- ➢ Ass. Lecturer. Seham Ibrahim Mohamed

Head of the department Prof. Dr Dr Manal Zaki Mohammed

Program & course specifications of MSC Page 21

Annex VI: Course Specifications of 1st part<u>MSC degree</u> in Medical

Parasitology

"Public health branches"

2023

University: Minia

Faculty: Medicine

Department: Public health and preventive Medicine department

| V.Course Information | | |
|--|--|--|
| Academic Year/level: first part | Course Title:MSCdegreeinMedical Parasitology | Code of program in which the course is involved : PR-200 |
| Number of teaching hou | irs: overall course duration | : 30 weeks |
| - Lectures: Total of 6 hou | ars, 2 hours/week | |
| - Practical /clinical: Total | of 30 hours, 1 hours/ week | ζ |
| 2.Overall Aims of the course | By the end of the course the | student must be able to: |
| 3.Intended learning outcomes of <i>Upon completion of the cour</i> | Prepare a community-orie anticipating and responding needs according to the polic guidelines of the MOHP. To use precisely the resea researches. Inform public policy, disse information, and increase av concerns through disease sur assessment, and program ev of course (ILOs): rse, the student should be able | nted physician capable of to community health ies, regulations, and arch methodology in eminate health vareness of public health rveillance, needs aluation. |
| A- Knowledge and Understanding | a1. Recognize the import a2. Describe nutritional Children, pregnant and group. a3. Describe the nutritio and treatment of disease. a.4. Describe epidemiol identify Strategies to Recomplete the second sec | tance of food and nutrition. needs to all age groups e.g. lactating mothers and old age nal requirement for prevention logy of COVID-19 virus and duce Spread of Covid-19 |

| | - a.5. Describe basic steps of COVID-19 case investigation | | | | | |
|--|--|--|--|--|--|--|
| | -a6. Describe methods of sampling strategies and sample size calculation | | | | | |
| | -a7. Describe normal distribution curve, measures of central tendency and measures of dispersion. | | | | | |
| B-Intellectual Skills | -b1. Design a balanced diet according to the required calories of different individuals and diet prescription in different diseases -b2. Reframe the community toward evidence based medicine -b3. Write the symptoms due to lack of food elements and how to manage them. -b4. Able to provide nutritional advise and protocol for patients infected with COVID-19 -b5. Interpret and summarize data | | | | | |
| C-Professional and Practical Skills | c1. Develop disease surveillance c2. Illustrate early detection and early warning of communicable and non-communicable diseases according to protocol) c3. Design an epidemiological study for an investigation of an epidemic/outbreak c4. Evaluate of public health services c5. Articulate in health promotion c6. Modify the normal diet into therapeutic diet therapy. c7. Plan the dietary management for patients with different health conditions. c.8. Draw chart describing the for surveillance procedure of COVID-19 virus infection c9. Calculate measures of central tendency and measures | | | | | |
| D-General and transferable Skills | of dispersion d1. Criticize indicators of health and disease d2. Identify prevalent health problems in a community, using various epidemiological strategies d3. Articulate in investigation of an epidemic/outbreak as part of a health team d4. Identify trends in health and disease d5. Use appropriate health promotion, disease prevention, and control measures d6. Use disease prevention and control measures to identified priority communicable and non-communicable diseases d7. Take part in conducting public health surveillance. | | | | | |
| 4.Course Contents | No of house Lesters The 11/D of the | | | | | |
| Горіс | No. of hours Lecture Tutorial/Practical | | | | | |

| General Epidemiology - Determinants of health and diseases - Prevention and control - Investigations of outbreak - Surveillance - Emerging diseases - Neglected tropical diseases Demography | 12 hours for lectures 6 hour for practical | 2 hr. / week | 1 hour / weeks |
|--|---|----------------|----------------|
| -Basics of demography and population pyramids -Population problem | 4 hours for lectures2 hours for practical | 2 nr. / week | 1 nour / weeks |
| Medical Statistics -Sampling and normal distribution curves -Measures of central tendency and deviation -Data presentation and tests of significance -Introduction to research , research terminology -Study design , different types of stydy | 6 hours lectures 3 hours practical | 2 hours / week | 1 hours / week |
| Epidemiology of communicable diseases: (6 per week) Determiniats of health and diseses Prevention and control Emerging diseases Neglected tropical diseases Zonotic diseases Arthropod born infections Droplet infection Blood born infections sexual transmitted infections Epidemiology of Non comunicable diseases: | 18 hourslectures9 hourspractical | 2hours / week | 1 hour / week |

| - Diabetes and hypertention | | | |
|---|--|--|--|
| - Cardiovascular diseases | | | |
| - cancer | | | |
| - Accidents. | | | |
| - Smoking | | | |
| In Nutrition (4 per week) | 20 hours | 2 hours/week | 1 hour / week |
| - Introduction and nutrition: | lectures | | |
| - Functions of food and nutrition in | | | |
| relation to human beings | | | |
| - Definition of food, nutrition | 10 1 | | |
| - Planning balance diet | 10 hours | | |
| - Measurement of energy | practical | | |
| - Nutritional Elements | | | |
| - Nutritional requirements in | | | |
| infancy preschool age school | | | |
| age, adolescence, adult. | | | |
| pregnancy, lactation and geriatric | | | |
| nutrition. | | | |
| - Nutritional assessment | | | |
| - Malnutrition diseases | | | |
| - Dietitics | | | |
| Total | 90 | 60 | 30 |
| 5.Teaching and Learning Methods | approach wa face interact 60% of study online Online learn University site 4.1- Lectures: lectures 4.2- Practical I 4.3- Assignme Online quizzes | as adopted that mi ion activities with t y method is offline a ing materials are e Face to face lecture essons nt | s, Pre-recorded video |
| | o mine quilles | | |
| 6.Teaching and Learning Methods | 1-Providing ex | tra lectures and practic | cal sessions. |
| 6.Teaching and Learning Methods for students with limited Capacity | 1-Providing ex 2-Timing of le | tra lectures and practic ctures and practical se | cal sessions. ssions according to |
| 6.Teaching and Learning Methods for students with limited Capacity | 1-Providing ex 2-Timing of le their schedule. | tra lectures and practic ctures and practical se | cal sessions. ssions according to |
| 6.Teaching and Learning Methods for students with limited Capacity | 1-Providing ex 2-Timing of le their schedule. 3-Providing le places for them | ttra lectures and practic ctures and practical se ctures and practical ses | cal sessions. ssions according to ssions in suitable |

| A.Student Assessment Methods | 5.1- Research assignment: to assess general transferable |
|----------------------------------|--|
| | skills, intellectual skills. |
| | 5.2- Paper based exam: |
| | Short essay: to assess knowledge. |
| | • Commentary: to assess intellectual skills. |
| | 5.3- Practical Exams: to assess practical skills, intellectual |
| | skills. |
| | 5.4- Oral Exams: Oral exams to assess knowledge and |
| | understanding, attitude, communication |
| | 5.5- Structured oral exams: to assess knowledge. |
| B.Assessment Schedule (Timing of | Assessment 1: Final written exam week: 24-28 |
| Each Method of Assessment) | Assessment 2: Oral exam week: 24-28 |
| | Assessment 3: Practical exam week: 24-28 |
| C.Weighting of Each Method of | Final Written Examination 40 % (120 marks) |
| Assessment | Oral Examination 30 % (90 marks) |
| | Practical Examination 30% (90 marks) |
| | Total 100% |
| 8.List of References | |
| A.Course Notes/handouts | Department notes, lectures and handouts, logbook |
| D Francisco de la Desta | 1 Marrie Danier Dalt's harden and annexed in and it in |
| B.Essential Books | 1-Maxy-Rosenau Public health and preventive medicine, |
| | Prenuce – Hall |
| | International Inc. |
| C.Recommended Text Books | 1- Dimensions of Community Health, Boston Burr Ridge |
| | Dubuque.10 |
| | 2- Short Textbook of preventive and social Medicine. |
| | Prentice-Hall |
| | International Inc. |
| | 3- Epidemiology in medical practice, 5th edition. |
| | Churchill Livingstone. New York, London and Tokyo. |
| D.Periodicals, websites | Amercan Journal of Epidemiologyy |
| | International Journal of Epidemiology |
| | International Journal of Public Health |
| | Egyptian Journal of Community Medicine |
| | British Journal of Epidemiology and Community Health |
| | WWW. CDC and WHO sites |

Course Coordinators:

Dr Shimaa Mahmoud Dr Chrestina Mounir **Head of Department**: Prof Dr Nashwa Nabil **Date of <u>last update</u> & approval by <u>department council</u>: 6/3 /2023**

Nasha N.K.

 Post-Graduate Course
 مسمى المقرر

 Specifications of

 Community Medicine for

 2nd part_MSC degree

 Code of program in

 which the course is

 involved:

 PR-200

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

قسم: الصحة العامة والطب الوقائي

a. Matrix of Coverage of Course ILOs By Contents

| | Intended Learning Outcomes (ILOs) | | | |
|--|-----------------------------------|------------|-------------|------------|
| (List of course topics) | А. | B. | С. | D. |
| Contonto | Knowledg | Intellectu | Professiona | General |
| Contents | e & | al Skills | 1& | & |
| | Understan | | Practical | Transfera |
| | ding | | skills | ble Skills |
| | a | В | С | d |
| General Epidemiology | a4 | b2 | c1,c4,c5 | d1,d2,d4,d |
| - Determinants of health and diseases | | | | 5,06 |
| - Prevention and control | | | | |
| - Investigations of outbreak | | | | |
| - Surveillance | | | | |
| - Emerging diseases | | | | |
| -Neglected hopical diseases | 27 | | | |
| Demography | a7 | | | |
| -Basics of demography and population | | | | |
| pyramids | | | | |
| -Population problem | | | | |
| Medical statistics | a6,a7 | b5 | c1,c3,c9 | d7 |
| -Sampling and normal distribution curves | | | | |
| -Measures of central tendency and deviation | | | | |
| -Data presentation and tests of significance | | | | |
| -Introduction to research, research | | | | |
| terminology | | | | |
| -Study design , different types of stydy | | | | |

نموذج رقم (۱۱۱)

| | | 1.0 | • | 10 |
|--|----------|----------|-------|----|
| Epidemiology of communicable diseases: | a4,a5 | b2 | c2,c8 | d3 |
| Determiniats of health and diseses Prevention and control Emerging diseases Neglected tropical diseases Zonotic diseases Arthropod born infections Droplet infection Blood born infections Enception sexual transmitted infections Epidemiology of Non comunicable diseases: | | | | |
| Diabetes and hypertention Cardiovascilar diseases Accidents Cancer Smoking | | | | |
| In Nutrition | a1,a2,a3 | b1,b3,b4 | c6,c7 | d5 |
| - Introduction and nutrition: | | | | |
| Functions of food and nutrition in relation to human beings | | | | |
| Definition of food, nutrition, calories | | | | |
| Planning balance diet | | | | |
| Measurement of energy | | | | |
| - Nutritional Elements | | | | |
| - Nutrition throughout the life cycle | | | | |
| Nutritional requirements in infancy, preschool age, school age, adolescence, adult, pregnancy, lactation and geriatric nutrition. | | | | |
| - Nutritional assessment | | | | |
| - Malnutrition diseases | | | | |
| - Dietitics | | | | |

B. Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

| hing | Intended Learning Outcomes (ILOs) | | | | |
|--------------------|-----------------------------------|---------------------------|---------------------------------------|-------------------------------------|--|
| s of Teacl ing | A. Knowledge & Understanding | B. Intellectual Skills | C. Professional & Practical skills | D. General & Transferable Skills | |
| Method & Learni | A | b | C | D | |
| Lecture | a1-7 | b1-5 | | | |
| Practical | | | c1-9 | | |
| Assignment | a1-7 | b1-5 | c1-9 | d1-7 | |

C. Matrix of Coverage of Course ILOs by Methods of Assessment

| ant | Intended Learnin | ntended Learning Outcomes (ILOs) | | | | | | |
|--------------|------------------|----------------------------------|-------------------|---------------------|--|--|--|--|
| , and a set | | | | | | | | |
| of Asses | A. Knowledge | B. Intellectual | C. Professional & | D. General & | | | | |
| | & | Skills | Practical skills | Transferable Skills | | | | |
| | Understanding | | | | | | | |
| spo | | | | | | | | |
| eth | а | b | С | D | | | | |
| Š | | | | | | | | |
| Written exam | a1-7 | b1-5 | | | | | | |
| | | | | | | | | |
| Practical | | | c1-9 | | | | | |
| exam (OSPE) | | | | | | | | |
| | | | | | | | | |
| Oral Exam | | | | d1-7 | | | | |
| | | | | | | | | |

Test blueprint for 1st part Medical Parasitology of public health master written paper examination

| Торіс | Ho % of | of Tota | Written exam | | Monka | Modified | |
|------------------------------|---------|---------|--------------|-----------|--------------|----------|-------|
| | ur | topic | item | Knowledge | Intellectual | | marks |
| | | | S | (marks) | (marks) | | |
| | | | | | | | |
| General Epidemiology | 12 | 20% | 2 | 12 | 12 | 24 | 24 |
| Lipideiniology | | | | | | | |
| Demography | 4 | 6.7% | 2 | 8.04 | | 8.04 | 8 |
| Medical statistics | 6 | 10% | 3 | 8 | 4 | 12 | 12 |
| Epidemiology of communicable | | | | | | | |
| and non- | 18 | 30% | 3 | 24 | 12 | 36 | 36 |
| communicable | | | | | | | |
| diseases | | | | | | | |
| Nutrition | 20 | 33.3% | 6 | 20 | 20 | 40 | 40 |
| Total | 60 | 100 | | | | 120 | 120 |

Annex VII: Course Specifications of

Medical Parasitology (Second part) For MSC Degree in Medical Parasitology

University: Minia Faculty: Medicine

Department: Medical Parasitology

| 1. Course Information | | | | |
|--|---|---|---------------|--|
| Academic Year/level: Second part Msc of Medical Parasitology | Course Title: | Code of program in w course is involved: | hich | |
| | Medical Parasitology | PR-200 | | |
| • Number of teaching hours: | | | | |
| Lectures: 90 hours; 3 hours/week. | | | | |
| Practical/clinical: 90 hours; 3 hours/w The total number of weeks: 30 weeks | eek. excluding public holidays. | | | |
| 2. Overall Aims of the course | By the end of the course the stude | ent must be able to: | | |
| | 1. Acquire excellent level of medical knowledge in the Me Parasitology and be able to correlate it with relevant biomedical, clinical, behavioural sciences, clinical scie and medical ethics and apply such knowledge scies practice. | | | |
| | 2. Demonstrate profound awarene and recent theories in the Medi | ess by current health probl ical Parasitology. | ems | |
| | 3. Demonstrate effective communication skills and leadersh competencies in different professional situations. | | | |
| | 4. Show appropriate attitudes an adherence to credibility and pr | d professionalism that re inciples of scientific pract | flect ice. | |
| | 5. Demonstrate commitment maintenance of competence | for lifelong learning and ability for continu | and 10us | |

| | medical education in subsequent stages in the Mea Parasitology as well as teaching others. | dical | | | | |
|--|---|--|--|--|--|--|
| 3. Intended learning outcomes of cou able to: | 3. Intended learning outcomes of course (ILOs): Upon completion of the course, the student should able to: | | | | | |
| A. Knowledge and Understanding | -a1. Outline the main parasites affecting human beings all the world and zoonose -a2. Discuss the geographical distribution, morphological b and life cycle of human infected parasites and vectors. -a3. Identify the pathology, clinical symptoms and complicat of each parasite and parasitic immunity bases -a4. Identify the laboratory diagnosis needed for para infection. -a5. Outline the drugs and instructions used for treating para infection. -a6. Recognise the control methods used against parasites vectors. -a7. Recognize host parasite interaction and methods of para evasion | over s. asis, ions isitic and isitic | | | | |
| B. Intellectual Skills | -b1. Review and synthesize the literature for thesis based rest -b2. Outline a clear set of research objectives, research apprenter methodology. -b3. Interpret clinical data to reach to provisional diagnosis. -b4. Formulate a systematic approach for laboratory diagnost common parasitic clinical conditions. -b5. Select the most appropriate tool to the identification of causative parasite. -b6. Use self-learning skills in solving problems. | searc oach is of f the | | | | |
| C. Professional and Practical Skills | -c1. Master collection, handling, and preparation of specin for testing. -c2. Master preservation, fixation, and staining procedures. -c3. Master Routine diagnostic parasitology proced including the stool Ova & Parasite exam, preparation examination of blood films and pinworm swabbing tests, or blood tests, and examination of urine, sputum, duod aspirates, urogenital sites, etc. based on morphological cri and light microscope. -c4. Use a classification key to identify species of parasites | nens ures and ccult lenal teria | | | | |

| | vectors. | |
|----------------------------|--|--------|
| | -c5. Perform special procedures such as parasite culture | |
| | -c6. Perform some advanced serological diagnostic technique | ues. |
| | -c7. Write and evaluate parasitological reports | |
| | -c8. Perform appropriate statistics and implement quality co | ntrol |
| | procedures necessary for diagnostic parasitology and | |
| | research work. | |
| | -d1. Communicate effectively with colleagues and with prof | fesso |
| | -d2. Use information technology (web sites, journals an | d di |
| | libraries) to remain current with advances in knowledge and | l prac |
| D General and transferable | (self-learning). | |
| Skills | -d3. Follow ethical principles and maintain proper etic | quette |
| | dealings with others and to respect the other opinion | |
| | -d4. Maintain competences of leading scientific meeting and | l skil |
| | effective time management. | |
| | 1 | |

3. Course Contents

| Торіс | No. of Hours | Lecture | Practical |
|---|-----------------|---------|-----------|
| Introduction | 6 hrs | 3hrs | 3hrs |
| Trematoda, Fasciola,Heterophyes, paragonimus, schistosomes, far east trematodes | 24hrs | 12hrs | 12hrs |
| Cestoda,Diphyllobothrium latum, Taenia spp., Echinococcus, Hymenolepis, Dipylidium | 24hrs | 12hrs | 12hrs |

| | Nematoda, Ascaris Trichuris, Enterobius Ancylostoma Strongyloides Capillaria,Trichnell spiralis.Dracunculus,Filan Total in the first 15 t wee | s, 36hrs s, a i h 90 hrs k | 18hrs 45 hrs | 18hrs 45 hrs | |
|---|--|--|---|--|--|
| | Protozoa. Entamoeba histolytica, commensal amoebae, Girdia lamblia, Trichomonas, Balantidium,Heamoflagell ate s,Toxoplasma, Malaria Crypto, Iso, Sarco,Microspora | 42hrs | 21hrs | 21hrs | |
| | Arthropoda, Mosquetoes, Flies, fleas, Lice, Bugs, Ticks, Mites, Cyclops, Scorpion | 36hrs | 18hrs | 18hrs | |
| | Immunity | 6 hrs | 3hrs | 3hrs | - |
| | Laboratory Technique | 6 hrs | 3hrs | 3hrs | - |
| | Total in the second 15 th week | 90hrs | 45hrs | 45hrs | |
| 4. Tea Met | • ching and Learning • thods • | Lectures in the for Practical sessions Attending and pa and thesis discuss skills needed. Asynchronous lea platform (Telegra | orm of discussions including praces stricipating in some sion to acquire the arning: Recorder am) | ons. tical assignmen eientific confere the general and ed lectures using | ts and quizze nces, worksh transferable g social medi |
| 5. Teaching and Learning Methods for students with limited Capacity | | Special sessions t Different schedul Providing lecture | to explain any c le according to es in places suita | lifficult part for their ability able for their ab | students. ility. |
| 6. Stu | dent Assessment | | | | |
| Program & co | ourse specifications of MSC Pag | e 35 | | | |

| A. Student Assessment Methods | Paper-based exam: to assess the capability of the student assimilation and application of the knowledge included in course. Oral exam: to assess the student intellectual and communication abilities regarding basic knowledge and understanding or course topics, and to help the teaching staff. OSPE: To assess ability of the student for applying information studied in the course in diagnosis and drawing of differences. |
|----------------------------------|--|
| B. Assessment Schedule: Exam are | • Assessment 1: 2 Paper-based exams. |
| set twice a year April and | • Assessment 2: OSPE exam. |
| September. | • Assessment 3: Oral exam, after the Written exam |
| C. Weighting of Each Method of | • Paper-based exam: 280 40% |
| Assessment | • OSPE examination: 280 40% |
| | • Oral examination: 140 20% |
| | • Total 100% |
| 7. List of References | |
| A. Course Notes/handouts | Department book by staff members of Medical Parasitology |
| | department |
| B. Essential Books | Basic Clinical Parasitology (Brown HW. Basic clinical parasitology. Basic clinical parasitology 1969(Edn 3). Markell and vogue's (John DT, Petri WA. Markell and Voge medical parasitology-e-book. Elsevier Health Sciences; 2006 27). Atlas of medical helminthology Chiodini PL, Moody AH, |
| | Manser DW. Atlas of medical helminthology and protozoolo Churchill Livingstone; 2001. |
| C. Recommended Textbooks | Lippincott Illustrated Reviews: Integrated Systems Integrated Medical Sciences - The Essentials Oxford Handbook of Medical Sciences |
| D. Periodicals, websites | <u>http://www.parasitology-world.com</u> Egyptian J of parasitology Parasitologists United journal |

Coordinator:

- Prof. Dr Azza Kamal Ahmed
- Dr. Manar Mostafa Nagi
- Dr. Reham Ahmed Abd-Rabou
- Ass.coordinators
- ➢ Ass. Lecturer. Seham Ibrahim Mohamed

Head of Department:

Prof. Dr Manal Zaki Mohammed

N. Sillie

Date of <u>last update</u> & approval by department Council: 6- 3- 2023

نموذج رقم (۱۱أ)

جامعة/أكاديمية: المنيا كلية / معهد: الطب

قسم: علم الطفيليات الطبية

| Medical | مسمى المقرر |
|--|-------------|
| Parasitology for | |
| Msc Degree in | |
| Medical | |
| Parasitology | |
| Code of program in which the course is | كود المقرر |
| involved: PR-200 | |

A. Matrix of Coverage of Course ILOs By Contents

| (1 | Contents List of course topics) | Week No. | Intended Learning Outcomes (ILOs) | | | | |
|----|---------------------------------------|---------------------------------|-----------------------------------|---|--|--|--|
| | | A. Knowledge & Understanding | B. Intellectual Skills | C. Professional & Practical skills | D. General & Transferable Skills | | |
| | | а | b | С | d | | |
| 1. | Introductio | a1, a4 | | | | | |
| | n | | | | | | |
| 2. | Trematoda | a1,a2,a3,a4,a5,a6 | b1, b2, b3, b4,b5, b6, b7 | c1,c2, c3,c4, c5,c6, c7, c8 | d1, d2, d3, d4 | | |
| 3. | Cestoda | a1,a2,a3,a4,a5,a6 | b1, b2, b3, b4,b5, b6, b7 | c1,c2, c3,c4, c5,c6, c7, c8 | d1, d2, d3, d4 | | |
| 4. | Nematoda | a1,a2,a3,a4,a5,a6 | b1, b2, b3, b4,b5, b6, b7 | c1,c2, c3,c4, c5,c6, c7, c8 | d1, d2, d3, d4 | | |
| 5. | Protozoa | a1,a2,a3,a4,a5,a6 | b1, b2, b3, b4,b5, b6, b7 | c1,c2, c3,c4, c5,c6, c7, c8 | d1, d2, d3, d4 | | |
| 6. | Arthropoda | a1,a2,a3,a4,a5,a6 | b1,b2, b4,b5, b6 | c4, c8 | d1, d2, d3, d4 | | |

| 7. | Immunity | a7 | | сб | |
|----|--------------------------|----|------------|-------------------------------|--|
| 8. | Laboratory techniques | a4 | b3, b4, b5 | c1, c2, c3, c5, c6, c7, c8 | |

A- Matrix of Coverage of Course ILOs by Methods of teaching and learning

| Method s of Teaching & Learning | Intended Learning Outcomes (ILOs) | | | | | | |
|---|-----------------------------------|-------------------------|---------------------------------------|-----------------------------|--|--|--|
| | A. Knowledge & | B. | C. | D. General | | | |
| | Understanding | Intellectual Skills | Professional & Practical skills | & Transferable Skills | | | |
| | Α | В | С | D | | | |
| Lecture | a1,a2,a3,a4,a5,a6,a7 | b1,b2,b3, b4, b5, b6 | | | | | |
| Practical | | | c1, c2, c3, c4,c5,c6,c7, c8, | | | | |
| Presentation/seminar Journal club | | | | d1, d2, d3, d4 | | | |
| Thesis discussion | | | | | | | |
| Training courses & workshops | | | | | | | |

| | Intended Learning Outcomes (ILOs) | | | | |
|----------------------------|------------------------------------|------------------------------|--|--|--|
| of | | | | | |
| Methods Assessme | A. Knowledge & Understanding | B. Intellectual Skills | C. Professional & Practical skills | D. General & Transferable Skills | |
| | Α | В | С | D | |
| | | | | | |
| Paper-based | a1,a2, a3, | b1,b2,b3, b4, | | | |
| exam | a4,a5, a6, a7 | b5, b6 | | | |
| OSPE | | | c1, c2, c3, | | |
| examination | | | c4,c5,c6,c7, c8, | | |
| Oral | a1,a2, a3, | b1,b2,b3, b4, | | d1, d2, d3, d4 | |
| examination | a4,a5, a6, a7 | b5, b6, | | | |

B. Matrix of Coverage of Course ILOs by Methods of Assessment

M. Sidio

Medical Parasitology Program Specification (Master Degree)

| Торіс | Hour | % of topic | Written exam (240) marks) | | Marks | Modified marks |
|-------------------------|------|---------------|------------------------------|-------------------------|-------|-------------------|
| | | | Knowledge (marks) | Intellectual (marks) | | |
| Introduction | 3 | 3.33% | 7.99 | | 7.99 | 8 |
| Trematoda | 12 | 13.34% | 16 | 16.02 | 32.02 | 32 |
| Cestoda | 12 | 13.34% | 16 | 16.02 | 32.02 | 32 |
| Nematoda | 18 | 20% | 24 | 24 | 48 | 48 |
| Protozoa | 21 | 23.33% | 27.4 | 28.4 | 55.99 | 56 |
| Arthropoda | 18 | 20% | 24 | 24 | 48 | 48 |
| Immunity | 3 | 3.33% | 7.99 | - | 7.99 | 8 |
| Laboratory Technique | 3 | 3.33% | 2 | 5.99 | 7.99 | 8 |
| Total | 90 | 100% | | | | 240 |

Test blueprint for Medical Parasitology course Master's degree in Medical Parasitology (2nd part)

| Торіс | Hour | % of topic | OSPE exam (200) Marks | Modified marks |
|----------------------|------|------------|-----------------------------|-------------------|
| Introduction | 3 | 3.33% | 6.66 | 7 |
| Trematoda | 12 | 13.34% | 26.86 | 26.5 |
| Cestoda | 12 | 13.34% | 26.86 | 26.5 |
| Nematoda | 18 | 20% | 40 | 40 |
| Protozoa | 21 | 23.33% | 46.66 | 46 |
| Arthropoda | 18 | 20% | 40 | 40 |
| Immunity | 3 | 3.33% | 6.66 | 7 |
| Laboratory Technique | 3 | 3.33% | 6.66 | 7 |
| Total | 90 | 100% | | 200 |

Test blueprint for Medical Parasitology OSPE exam of Master's degree in Medical Parasitology (2nd part)

Protocol of OSPE exam of Master's degree in Medical Parasitology (2nd part)

| Торіс | No of slides/ | Method of | Marks |
|------------|---------------|-------------------------|-----------------|
| | cards | assessment | |
| Helminthes | Trematoda: 5 | 1- Adjust slide | 5 marks /slide |
| | Cestoda: 5 | 2- Identify the | 5 marks /slide |
| | Nematoda: 7 | parasite and stage | 5 marks /slide |
| Drotozoo | 0 | 3- Draw another | 5 martes /alida |
| Frotozoa | 0 | parasite | 5 marks / sinde |
| | | 4- Short assay | |
| | | /MCQ | |
| suspension | 1 | -Identify the parasites | |
| - | | present in it. | |
| Arthropoda | 8 | | 5 marks /slide |
| Immunity | 1 card | 1- Identify the | 7 marks |
| | | apparatus and/ or | |
| | | technique. | |

| | 2- Short assay about procedure, Adventages or disadvantages | |
|-------------------------|---|---------|
| Laboratory Technique | -Perform any of the studied techniques. | 7 marks |

44

[Type text]

Medical Parasitology Program Specification (Master Degree)