



كلية الطب- جامعة المنيا

قسم الأمراض المتوطنة

Program Specification of Master degree in Tropical Medicine

University: Minia

Faculty of medicine

Code: TM 200

A-Basic Information:

1. **Programme title:** ... Master degree in Tropical Medicine
2. **Final award:** Master degree in Tropical Medicine
3. **Programme type:** single double multiple:
4. **Responsible department:** Tropical Medicine Department

5. Departments involved in the programme: Tropical Medicine Department, Medical Physiology Department, Medical Microbiology and Immunology department, Medical Biochemistry, Pathology Department, Public Health and preventive medicine Department, Internal Medicine Department, Medical Parasitology department and Forensic Medicine & Clinical Toxicology Department.

6-Programme duration: 2 years.....

7-Number of programme courses: 9.....

8- Coordinator: prof. d Dr Hala Ibrahim

9-External evaluators: Prof Dr Maysaa Abdalla

10- Internal evaluator Prof .Dr Yasser Mahrous

10 Program management team:

Dr Omar Abdelazeem

Dr. Alaa Mostafa

Ass. Lect..Gaser Elzaeem

Ass. Lec. Eman Salama

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B- Professional Information:

1- Program Aims: -

Over all aim of the course

By the end of the course the student must be able to extend an advanced knowledge in different infectious & liver and GIT diseases, so the candidate can recognize a wide range of different medical problems and establish an advanced clinical skill to deal with it.

Provide recent scientific knowledge essential for the mastery of this specialty according to the international standards.

Rule on skills necessary for proper diagnosis and management of patients in this field including diagnosis, problem identification and decision making.

Acquire all competencies that enable him to provide safe, scientific, ethical and evidence-based care including update use of new technology. Maximize learning abilities necessary for continuous medical education and research interests . Acquire decision making capabilities in different situations.

Show appropriate attitudes and professionalism.

1. Program Intended Learning Outcomes (I LOs)

By the end of the study of master program in tropical medicine the candidate should be able to:

1.1 A-Knowledge and understanding:

A1- Discuss the essential facts and principles of relevant basic sciences including normal, physiology,

Pathology, Biochemistry and microbiology related to Infectious diseases& gastrointestinal tract and hepatobiliary systems.

A2-Recognize knowledge of biomedical, clinical, epidemiological, and social-behavioral sciences, as well as the application of this knowledge to the care of patients with gastrointestinal, hepatic, and Infectious diseases.

A3- Identify the principles of quality assurance of professional practice in the field of tropical medicine

A4-Discuss the effect of professional practice on the environment and the methods of environmental development and maintenance.

A5-Describe recent advances in the various therapeutic methods/alternatives used for hepatic and GIT diseases.

A6-Explain the recent and update developments in the pathogenesis, diagnosis, prevention, and treatment of common diseases related to gastrointestinal, hepatic and Infectious diseases.

A7-Define the basic ethical and medico legal principles that should be applied in practice and are relevant to various diseases.

A8- Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of Infectious &hepatic and GIT diseases.

A9- Identify the basics, methodology and ethics of scientific research and maintenance.

1.2 b- Intellectual Skills

By the end of the study of master In tropical medicine, the graduate should be able to:

B1- Interpret data acquired through history taking to reach a provisional diagnosis for hepatic, Infectious , and GIT Diseases.

B2- Innovate non-traditional solutions for hepatic and GIT Problems.

B3- Judge different diagnostic alternatives the ones that help reaching a final diagnosis for hepatic & GIT problems and Infectious diseases.

B4- Interpret an investigatory and analytic thinking approach (problem solving) to common clinical situations.

B5-Formulate management plans and alternative decisions in different situations

B6- Design and /or present a case or review (through seminars/journal clubs.) in one or more of common clinical problems relevant to the specialty.

B7-Criticize Scientific discussion based on scientific evidence and proofs

B8 Design a plan for improving the departmental performance in the field of teaching and research.

B9-Apply safety measures during professional practicing in mangling different medical cases

B10- Design the principles and fundamentals of quality assurance of professional practice in the field of gastroenterology and hepatology.

B11-Operate training for being able to decision-making in a variety of professional situations as in critical problems.

1.3 Skills

1.3.1 C- Professional and practical skills:

By the end of the study of master program in hepatology, gastroenterology and infectious diseases the Graduate should be able to

C1-Perform the basic and modern professional skills in the area hepatology & gastroenterology and infectious diseases.

C2 - Perform different kinds of medical diagnostic tests like ultrasounds, and endoscopies to diagnose and treat patients affected with problems of liver and GIT diseases.

C3-Evaluate of medical reports.

C4-Recomend new technological methods to serve the professional practice.

C.5-Participate in research and conduct studies to gain a better understanding and develop new and more effective methods of treatment

1.3.2 D- General and Transferable Skills

By the end of the study of master program in hepatology, gastroenterology and infectious diseases the Graduate should be capable of:

D1- Communicate effectively by all types of effective communication

D2- Use information technology to serve the development of professional practice

D3- Assess himself and identify his personal needs

D4 – Use different sources to obtain information and knowledge

D5- Develop rules and indicators for assessing the performance of others.

D6- Work in a team, and team's leadership in various professional contexts

D7- Manage time by right way.

D8- Prepare and integrate scientific activities as seminars, journal clubs , scientific meetings or conferences. Improve his practice through constant self-evaluation and life-long learning

2- Program Academic Reference Standards:

- 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 session No.177 Dated: 18\5\2009).

{Annex 1}.

- Faculty of medicine, Minia University has developed the academic standards (ARS) for Master(MSc) and approved in faculty Council decree No.7528, in its session No.191, dated: 15\3\2010) and these standards (faculty ARS) have been updated and approved in faculty Council No.52/2 dated: 20/ 2 / 2023

{Annex 2}

-Then **tropical medicine department** has adopted these standards and developed the intended learning outcomes (ILOS) for **MSCs program in Master degree in tropical medicine** and the date of program specifications 1st approval was

by department council: 13-5-2013, last update of program specification approval by department council: 5-3-2023.

3- programm Structure and Contents

3.A- Program duration: 2 years

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
First part			
Public Health and preventive Medicine	10	--	10
Medical Biochemistry	30	--	30
Pathology	48	48	96
Medical Physiology	24	--	24
Medical Parasitology	36	24	60
Medical Microbiology and immunology	40	5	45
Medical Ethics	42	21	63
Internal Medicine	40	40	80
Second part			
Infectious diseases	23	10	33
Hepatology	22	14	36
Gastrointestinal diseases	19	11	30

Basic sciences (compulsory) courses: 9 courses (30%)

Specific courses related to the specialty: 1 course (70%)

A. First part:

- Medical Physiology (14.3%)
- Medical Microbiology and immunology (14.3%)
- Medical Biochemistry (14.3%)
- Pathology (14.3%)
- Public Health and community Medicine (14.3%)
- Internal medicine (14.3%)
- Medical Parasitology (14.3%)
- Medical Ethics (14.3%)

. Second part

- Infectious diseases, hepatology and gastrointestinal diseases Percentage 100%

.. Levels of program in credit hours system: Not applicable

4-Programme courses

Total No. of hours	No. of hours /week			Program ILOs Covered
	Lectures	Practical	Tutorials	
First part				
Medical Microbiology And immunology	40	5		A 1-A2 -A6-A8 B3-B4-B5-B7-B9-B11 C3-C4 D1-8
Medical Biochemistry	30			A1-A2-A6-A 8 B 3,-B4-B7 C3-C4 D 1-8
Pathology	48	48		A1-A6 A8 B3,B4,B6-B7 C3-C4 D1-8
Medical Physiology	24			A1-A2-A6-A8 B3,B4-B6-B7 C3-C4 D1-8
Public Health and community Medicine	10			A2-A4 B9,B10 C3 D1-D8
Medical Parasitology	36	24		A2, A6, A8 B 3,B4, B6, B7 C3, C4 D1-D8

Internal medicine	40	40	A1-9 B1-11 C1-C5 D1-D8
Medical Ethics	42	21	A7 B 9-B10 D1-D4-D6
Second part			
Infectious diseases.			A1-9
Hepatology.	23	10	B1-11
Gastrointestinal disease	22	14	C1-5
	19	11	D1-8

5- Program admission requirements:

1. General requirements:

A. Candidates should have either:

1. MBCH 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. Follows postgraduate regulatory rules of Minia faculty of medicine.

2. Specific requirements:

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

B. Candidate should know how to speak and write English well.

C. Candidate should have computer skills.

6-Regulations for progression and program completion:

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

First Part: (≥6 months):

- All courses as specified in the internal by law

-At least 6 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% in the written exam).

-Those who fail in one curriculum need to re-exam it only

Thesis/essay:

•Start from registration and should be complete and accepted at least after passing 6 months from protocol registration till one month before allowing to enter 2nd part final exam.

• Accepting the thesis occurs after publishing one thesis-based paper in local or international journal and this is enough to pass this part.

Second Part: (≥18 months):

• Program related specialized Courses.

• Actual work for 18 months as a demonstrator /trainee in the department of Tropical Medicine

• The student should pass the 1st part before asking for examination in the 2nd part.

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

• 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:

a. Training courses along the duration of the program

b. Seminars at least 10 seminars

c. Thesis discussion

d. Conference attendance at least one conference.

e. Other scientific activities requested by the department

7-Teaching and learning methods:	The assessed ILOs
Lectures	A. Knowledge & understanding B. Intellectual Skills
Practical training, case discussion	C. Professional & Practical skills
Weekly seminars, presentations and assignments	B. Intellectual Skills D. General & Transferable Skills
-Training courses & workshops.	C. Professional & Practical skills D. General & Transferable Skills

-Conference attendance	C. Professional & Practical skills D. General & Transferable Skills
Journal club	C. Professional & Practical skills D. General & Transferable Skills

8-Methods of student assessment:

Method of assessment	The assessed ILOs
1. Research (Thesis)	A. Knowledge & understanding B. Intellectual Skills C. Professional & Practical skills D. General & Transferable Skills
2. Written Exams: <ul style="list-style-type: none"> ● Short essay ● MCQs ● Complete ● True or false and correct the wrong ● Commentary ● Problem solving 	.A- Knowledge & understanding B. Intellectual Skills
3. Practical/Clinical Exams	C. Professional & Practical skills
4. Oral Exams	A- knowledge & understanding B- Intellectual skills

9-Weighing of assessment:

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

First part

Courses	written	Oral	Practical	Total
Parasitology	12	9	9	30
Microbiology	12	9	9	30
Physiology	12	28	-	40
Medical ethics	40	60	-	100
Public health	24	36		60
Pathology	24	18	18	60
biochemistry	12	18	-	30
Internal medicine	24	18	18	60

Second part

Courses	written	Oral	Practical	Total
Infection	280	220	200	700
Hepatology				
GIT				

10- Methods of Program Evaluation:

Evaluator (By whom)	Method/tool	Sample
1-Senior students (Students of final years)	Questionnaires	https://docs.google.com/forms/d/e/1FAIpQLSdBv464Iegx0eS0UqiRxrO-5QEatKuXVSQh4bRPrzx4nA/viewform?usp=sf_link https://docs.google.com/forms/d/e/1FAIpQLSfsT7ZEB5-o1hQlsBvrklEw7ug4gl0r04TFAjlx3icAqHEhig/viewform?usp=sf_link
2-Graduates (Alumni)	Questionnaires	https://docs.google.com/forms/d/e/1FAIpQLSdBv464Iegx0eS0UqiRxrO-5QEatKuXVSQh4bRPrzx4nA/viewform?usp=sf_link
3-Stakeholders	Meeting Questionnaires	https://docs.google.com/forms/d/e/1FAIpQLSfsT7ZEB5-o1hQlsBvrklEw7ug4gl0r04TFAjlx3icAqHEhig/viewform?usp=sf_link
External & Internal evaluators and external examiners	Reports	Attached to the file

5--Quality Assurance Unit	Reports Questionnaires Site visits	Attached to the file
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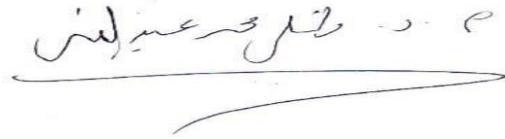
- **Course Coordinator:**
 - **prof. Dr Hala Ibrahim**

- **Program management team:**
Dr Omar Abdelazeem
Dr. Alaa Mostafa
Ass. Lect..Gaser Elzaeem
Ass. Lec. Eman Salama

Date of program specifications first approval by department council: 13/6/2013.

Date of last update & approval by department council: 5\ 3\ 2023.

Head of department: Prof. Dr. Wael Abelghany



Annex (1): Comparison between General Academic Reference

Standards (GARS) and Faculty Academic Reference Standards (ARS)

مصنوفه توافق المعايير القومية القياسيه العامه لبرامج الماجستير مع المعايير الأكاديميه

المعتمده من كليه الطب جامعة المنيا لدرجه الماجستير في الأمراض المتوطنة

NAQAEE برامج الماجستير	Faculty Master (MSC) Program
.1 مواصفات الخريج: خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا	1. Graduate Attributes: Graduate of master (MSC) program should be able to:

١,١. إجادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام	1.1. understanding and applying of basics of research method and research tools
٢,١. تطبيق المنهج التحليلي واستخدامه في مجال	1.2 Critically analyze, evaluate, and effectively communicate findings, theories, and methods
٣,١. تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في	1.3. Apply integrated professional and general knowledge in his scholarly field and at the interface between different fields.
٤,١. إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في	1.4 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
٥,١. تحديد المشكلات المهنية وإيجاد حلول لها	1.5 Demonstrating proficiency, required to solve current complex problems in his scholarly field.
٦,١. إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم	1.6 Master a variety of technical skills in his scholarly field and expert relevant technology, and software.
٧,١. لتواصل بفاعلية والقدرة على قيادة فرق	1.7 Gain leadership skills and be able to communicate efficiently with colleagues and get the best results.
٨,١. اتخاذ القرار في سياقات مهنية مختلفة	1.8 Take professional situational decisions and logically support them.
٩,١. توظيف الموارد المتاحة بما يحقق أعلى استفادة و	1.9. Optimal use of available resources to achieve research or best patient health care and ensure its maintenance.
١٠,١. إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في	1.10 Demonstrate awareness of its role in community health development and
١١,١. التصرف بما يعكس الالتزام بالنزاهة والمصادقية والالتزام	1.11 Exhibit ethical behavior that reflect commitment to the code of practice
١٢,١. تنمية ذاته أكاديميا ومهنيا و قادرا على التعلم	1.12 demonstrates the ability to sustain a lifelong personal and professional growth.
٢. المعايير القياسية العامة: NAQAAE General Academic Reference Standards "GARS" for Master Programs	2. Faculty Academic Reference Standards (ARS) for Master Program
٢,١. المعرفة والفهم: بإنتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا بكل من: علم	2.1. Knowledge & Understanding: Upon completion of the Master degree the graduate should have sufficient knowledge and understanding of:
٢,١,١. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجال	2.1.1. Understand the scientific basis and modern knowledge in the field of specialization medical sciences
٢,١,٢. التأثير المتبادل بين الممارسة المهنية وانعكاسها على	2.1.2. The mutual influence of professional practice on work environment, working and job characteristics.
٢,١,٣. التطورات العلمية في مجال التخصص	2.1.3. Scientific developments in the field of specialization

٢,١,٤. المبادئ الأخلاقية والقانونية للممارسة المهنية في	2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid medical errors
٢,١,٥. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال	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.
٢,٢. المهارات الذهنية: بإنتهاء دراسة برنامج الماجستير يجب أن يكون ال	2.2. Intellectual Skills: Upon completion of the master program of....., the graduate should be able to:
2.2.1. تحليل وتقييم المعلومات في مجال التخصص والقياس وال	2.2.1. Use judgment skills for analytical and critical problem solving
2.2.2. حل المشاكل المتخصصة مع عدم توافر بعض	2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems
2.2.3. الربط بين المعارف المختلفة لحل المشاكل 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.
2.2.4. إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية	2.2.4. Effectively apply research methods and carrying out a medical research thesis
2.2.5. تقييم المخاطر في الممارسات المهنية في مجال	2.2.5. Be aware of risk management principles, and patient safety.
2.2.6. التخطيط لتطوير الأداء في مجال التخصص	2.2.6. Establish goals, commitments, and strategies for improved Professional performance in the field of specialty
2.2.7. اتخاذ القرارات المهنية في سياقات مهنية متنوعة	2.2.7. Take professional situational decisions and logically support them.
٣,٢. المهارات المهنية: بإنتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا	2.3 Professional Skills: Upon completion of the master program the graduate must be able to:
3.2.1. إتقان المهارات المهنية الأساسية والحديثة في مجال	2.3.1. Master the basic and some advanced professional skills in his scholarly field.
٣,٢,٢. كتابة و تقييم التقارير المهني.	2.3.2. Write and evaluate medical or scientific reports
٣,٢,٣. تقييم الطرق والأدوات القائمة في مجال التخصص	2.3.3 Assess and evaluate technical tools during research
٤,٢. المهارات العامة والمنتقلة: بإنتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا	2.4 General and transferable skills Upon completion of the master program of....., the graduate should be able to:
٤,٢,١. التواصل الفعال بأنواعه المختلفة	2.4.1. Communicate effectively using a written medical record , electronic medical record, or other digital technology.
٤,٢,٢. استخدام تكنولوجيا المعلومات بما يخدم الممارسة	2.4.2 Use of information technology (computer to create, process, store, secure and exchange electronic data) in the field of medical practice.
٤,٢,٣. لتقييم الذاتي وتحديد احتياجاته التعليمية الشخصية	2.4.3. Assess himself and identify personal learning needs

4.2.4 . استخدام المصادر المختلفة للحصول على المعلومات	2.4.4. Use various sources for information (physical and digital sources).
4.3.5 . وضع قواعد ومؤشرات تقييم أداء الآخرين	2.4.5. Setting indicators for evaluating the performance of others
4.2.6 . العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة	2.4.6. Work in a team, and Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system
4.2.7 . إدارة الوقت بكفاءة	2.4.7. Manage time efficiently
٤,٢,٨. التعلم الذاتي والمستمر	2.4.8. Demonstrate skills of self-learning and lifelong learning needs of medical profession.

Annex II: Comparison between Faculty Academic Reference Standards (ARS) and master program for Tropical medicine ILOs

Faculty Academic Reference Standards (ARS) for Master Program	Master program Tropical Medicine ILOs
2.1. Knowledge & Understanding: Upon completion of the Master Program The graduate should have sufficient knowledge and understanding of:	1.1 Knowledge & Understanding: Upon completion of the Master Program, 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	A1- Discuss the essential facts and principles of relevant basic sciences including normal, physiology, Pathology, Biochemistry, and microbiology related to Infectious diseases & gastrointestinal tract and hepatobiliary systems. A2-Recognize knowledge of biomedical, clinical, epidemiological, and

	<p>social-behavioral sciences, as well as the application of this knowledge to the care of patients with gastrointestinal, hepatic, and Infectious diseases.</p> <p>A3- identify the principles of quality assurance of professional practice in the field of tropical medicine</p>
2.1.2. The mutual influence of professional practice on work environment, working conditions, characteristics.	A4-discuss the effect of professional practice on the environment and the methods of environmental development and maintenance.
2.1.3. Scientific developments in the field of Specialization	<p>A5-Describe recent advances in the various therapeutic methods/alternatives used for hepatic and GIT diseases.</p> <p>A6-Explain the recent and update developments in the pathogenesis, diagnosis, prevention, and treatment of common diseases related to gastrointestinal, hepatic and Infectious diseases.</p>
2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors	A7-Define the basic ethical and medico legal principles that should be applied in practice and are relevant to various diseases
2.1.5. Quality principles in the scholarly field	A8-Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of Infectious & hepatic and GIT diseases techniques necessary to establish diagnosis of hepatic and GIT diseases
2.1.6. Basis of research methodology and medical ethics.	A9-Identify the basics, methodology and ethics of scientific research
<p>2.2. Intellectual Skills: Upon completion of the Master Program (MSc) the graduate should have be able to:</p>	<p>1.2 Intellectual Skills: Upon completion of the Master Program (MSc) in Tropical Medicine the ould have be able to be able to:</p>
2.2.1. Use judgment skills for analytical and critical problem solving	B1- Interpret data acquired through history taking to reach a provisional diagnosis for hepatic, Infectious, and GIT Diseases.
2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems	B2- Innovate non-traditional solutions for hepatic and GIT Problems.
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- Judge different diagnostic alternatives the ones that help reaching a final diagnosis for hepatic & GIT problems and Infectious diseases.

	<p>B4- Interpret an investigatory and analytic thinking approach (problem solving) to common clinical situations.</p> <p>B5-Formulate management plans and alternative decisions in different</p>
2.2.4. Effectively apply research methods and carrying out a medical research thesis	<p>B6- Design and /or present a case or review in one or more of common clinical problems relevant to the specialty.</p> <p>B7-Criticize Scientific discussion based on scientific evidence and proofs</p> <p>B8- Design a plan for improving the departmental performance in the field of teaching and research.</p>
2.2.5. Be aware of risk management principles, and ty.	B9-Apply safety measures during professional practicing in mangling different medical cases
2.2.6. Establish goals, commitments, and strategies for improved professional performance in the field of specialty	B10- Design the principles and fundamentals of quality assurance of professional practice in the field of gastroenterology and hepatology
2.2.7. Take professional situational decisions and logically support them.	B11-Operate training for being able to decision-making in a variety of professional situations as in critical problems
<p>2.3. Professional Skills: Upon completion of the Master Program (MSc) the graduate should have be able to:</p>	<p>1.3.1 Professional Skills: Upon completion of the Master Program (MSc) in Tropical Medicine the should have be able to:</p>
3.2.1. Master the basic and some advanced professional skills in his scholarly field.	<p>C1-Perform the basic and modern professional skills in the area of hepatology & gastroenterology and infectious diseases.</p> <p>C2 - Perform different kinds of medical diagnostic tests like ultrasounds, and endoscopies to diagnose and treat patients affected with problems of liver and GIT diseases.</p> <p>.</p>
3.2.2. Write and evaluate medical or scientific reports	C3-Evaluate of medical reports.
3.2.3. Assess and evaluate technical tools during research	<p>.</p> <p>C4-Recomend new technological methods to serve the professional practice.</p> <p>C.5-Participate in research and conduct studies to gain a better understanding and develop new and more effective methods of treatment</p> <p>.</p>
<p>2. 4 General and transferable skills Upon completion of Master Program (MSc) the graduate should have be able to</p>	<p>1.3.2. General and transferable skills Upon completion of the Master Program (MSc) in Tropical Medicine the graduate should have be able to</p>
4.2.1. Communicate effectively using a written	D1 Communicate effectively by all types of effective communication

medical record, electronic medical record, or other digital technology.	
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 information technology to serve the development of professional practice
4.2.3. Assess himself and identify personal learning needs	D3 Assess himself and identify his personal needs
4.2.4. Use various sources for information (physical and digital sources).	D4 use different sources to obtain information and knowledge
4.2.5. Setting indicators for evaluating the performance of others	D5 Develop rules and indicators for assessing the performance of others.
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 Work in a team, and team's leadership in various professional contexts
4.2.7. Manage time efficiently	D7-Mange time by right way
4.2.8. Demonstrate skills of self-learning and Lifelong learning needs of medical profession.	D 8-Prepare and integrate scientific activities as seminars, journal clubs, meetings, or conferences. Improve his practice through constant self-evaluation and life-long learning

Annex III: Matrices

مسمى البرنامج	Tropical Medicine
كود البرنامج	TM200

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

قسم: الأمراض المتوطنة

1- Matrix of Coverage of Program ILOs by Program topics

(Courses)

Courses	Program Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skill	C. Professional skill	D. General & Transferable Skill
First part				
Medical Microbiology and Immunology	A 1, A2, A6-A8	B3, B4, B5, B7, B9, B11	C3, C4	D1-8
Medical Biochemistry	A1, A2, A6, A 8	B 3, B4-B7	C3-C4	D 1-8
Pathology	A1, A6, A8	B3, B4, B6-B7	C3, C4	D1-8
Medical Physiology	A1-A2-A6-A8	B3, B4,B6,B7	C3, C4	D1-8
Public Health and preventive Medicine	A2, A4	B9, B10	C3	D1-8
Medical Parasitology	A2, A6, A8	B 3,B4, B6, B7	C3, C4	D1-8

Internal medicine	A1-9	B1-11	C1-C5	D1-8
Medical Ethics	A7	B9,B10		
Second part				
Infection, GIT, hepatology	A1-A9	B1-B11	C1-5	D1-8
Training programs and workshops, field visits, seminars& other scientific activities	A9	B6-7-8	C3-4-5	D1-8

2- Matrix of Coverage of Program ILOs by Methods of Teaching& Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1-A9	B1-B11		
Clinical and Practical			C1-C5	
Presentation/seminar Journal club Training courses & workshops and Conference attendance	A1-A9	B1-B11	C1-5	D1-D8

Matrix of Coverage of Program ILOs by Methods of assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	Knowledge & Understanding	Intellectual Skills	Professional & Practical skills	General & Transferable Skills
Written exam	A1-A9	B1-B11		
Short essay				
MCQs				
- Problem solving				
Practical exam			C1-C5	
Oral Exam	A1-,A9	B1-B11		D1-D8

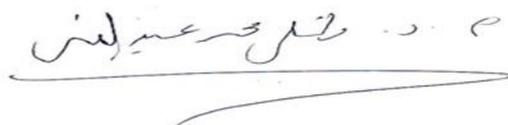
Course Coordinator:

Prof Dr / Hala Ibrahim

Date 5/3/2023

Head of Department:

Prof.Dr/ Wael Abdelghany



**Course Specifications of Pathology for 1st Part of Master Degree in tropical
medicine**

1.Course Information	
Course Title: Pathology	
Code: TM 200	
Academic Year/level: Postgraduate, Master degree (1st part), Tropical.	
Date of specification approval: 2022/2023	
<ul style="list-style-type: none"> • Number of teaching hours: <ul style="list-style-type: none"> - Lectures: Total of 48 hours; 2 hour/week - Practical/clinical: Total of 48 hrs., 2 hour/week 	
2. Overall Aims of the course	
<i>By the end of the course the student must be able to:</i>	
<ol style="list-style-type: none"> 1. Explain theories, basics & recent advances in the field of pathology. 2. Appraise & interpret relevant basic information and correlate them with essential clinical data to reach a final diagnosis 3. Plan for the development of acquisition of skills of basic & modern pathological laboratory techniques as well as principals of pathology. 4. Demonstrate competency on dealing with various biopsies and reporting pathological features and correlate such information with the relevant provided clinical data. 	

3. Intended learning outcomes of course (ILOs): <i>Upon completion of the course, the student should be able to:</i>	
A- Knowledge and Understanding	A.1.Illustrate definition, types of acute inflammation as well as its pathological features and complications A.2.Demonstrate pathological features of chronic inflammation, and granuloma in relation to its morphological and etiological types A.3.List examples of granulomas: Define tuberculosis, outline methods of infection, the sites

	<p>of primary and secondary infection, pathological features and its fate.</p> <p>A.4.Explain the reaction to bilharzial infestation, pathological features and complications of bilharziasis of the intestine, bilharzial hepatic fibrosis and bilharzial splenomegaly.</p> <p>A.5. Illustrate different forms of bacterial infections as bacteraemia, septicaemia, toxaemia and pyaemia. Mention their causes and effects on different organs</p> <p>A.6.Discuss cellular response to injury, etiology and pathological features of reversible cell injury and irreversible cell injury</p> <p>A7. Define repair, fibrosis, and regeneration with examples, and analyze pathological processes.</p> <p>A.8.Explain hemodynamic disorders as thrombosis, embolism, ischemia, infarction, haemorrhage, gangrene and edema and mention their causes and effects on different organs.</p> <p>A.9. Define hypersensitivity reactions and explain pathogenesis of autoimmune diseases.</p> <p>A.10. Define each of these terms with examples as hypertrophy, hyperplasia, agenesis, hypoplasia, aplasia and atrophy. Distinguish between the disorders of differentiation of the cells as dysplasia and metaplasia.</p> <p>A.11. Define neoplasia, classification of tumors, illustrate grading and staging of malignant tumors. Define metastasis, explain mechanism of spread, and Outline the main routes</p> <p>fine gastroesophageal reflux disease, and describe esophagus and its effects, Classify tumors of the s with emphasis on esophageal carcinoma</p> <p>ntion etiology of acute and chronic gastritis, with rription of its pathological features, Define peptic , its pathogenesis, and its complications. Describe rcinoma, highlight its pathological features and ts prognosis.</p> <p>Explain typhoid ulcer in the small intestine.</p> <p>dysentery and enumerate its common and Mention pathogenesis, Define inflammatory disease and mention its causes and ications</p> <p>merate types of colonic polypi, Classify of the colon giving an account of</p>
--	--

	<p>colorectal carcinoma, emphasizing risk factors, .pathological features</p> <p>A.16.Outline the main causes of acute and chronic .viral hepatitis, mention its pathological features</p> <p>Define liver cirrhosis, list its classification, mention . the etiology of each type and its pathological features. Give a brief account on hepatocellular carcinoma with emphasizes on risk factors, .Pathological features, spread and prognosis</p> <p>A17 List causes and common types of gall stones. Describe the pathology and complications of acute and chronic cholecystitis</p> <p>A18. Outline the etiology, pathology and .complications of acute pancreatitis</p> <p>A19. Identify the classification of lymphoma and its main pathological features.</p>
B- Intellectual Skills	<p>B.1.Analyze the signs and symptoms of a disease based on the underlying gross & microscopic tissue changes.</p> <p>B2. Interpret a pathology report and integrate gross and microscopic findings with the underlying etiology</p> <p>B3. Solve a problem in a case scenario to reach a provisional diagnosis</p>
C- Professional and Practical Skills	<p>C1- Write adequate pathological description concerning main features of gross appearance of a museum specimen</p> <p>C2- Use the light microscope to examine and identify microscopic findings of some selected examples of studied diseases.</p> <p>C3- Learn proper handling of and processing tissue specimens sent for pathological examination.</p> <p>C4- Write a pathological request.</p>
D- General and transferable Skills	<p>D1. Demonstrate efficient communication & interpersonal skills in all its forms and in different situations that may involve senior staff, colleagues, other health care professionals, and patients</p> <p>D.2. Use efficiently the information technology and select reliable sources of information to get essential information and updates regarding the different topics and techniques in surgical pathology.</p>

	D.3. Develop skills of self-evaluation and identify personal learning needs to plan for self-development and continuous medical education D.4. Demonstrate the skills of effective time management		
4.Course content			
Topic	Lecture hours	Practical hours	Total hours
1. Acute inflammation	4	4	8
2. Chronic inflammation and granuloma	2	2	4
3- Granuloma	3	3	6
4- Bilharziasis	3	3	6
5- Bacterial infection	3	3	6
6-Cell injury	2	2	4
7- Repair	2	2	4
8-Hemodynamic disorders	4	4	8
9-Immunopathology	2	2	4
10- Cellular adaptation	2	2	4
11. Neoplasia	4	4	8
12-Diseases of the Esophagus	2	2	4
13-Pathology of the stomach	3	3	6
14- Pathology of the small intestine	2	2	4
15- Pathology of the large intestine	3	3	6
16- Pathology of the Liver	4	4	8
17- Pathology of the gall bladder	1	1	2
18- Pathology of the pancreas	1	1	2
19-Lymphoma	1	1	2

Total	48	48	96										
5. Teaching and Learning Methods													
<p>5.1. Lectures: Both face to face & on-line.</p> <p>5.2. Practical sessions: Gross pathology and histopathology</p> <p>5.3. Self-learning activities for the topics studied in lectures or related topics; including libraries, E-learning (practical photographs and questions of different topics available online for student's assessments) and consulting professors for gathering information.</p> <p>5.4. Tutorial & regular weekly seminars, case presentation, training courses & workshops.</p>													
7. Student Assessment													
A. Student Assessment Methods		<p>1. Written exam to assess the acquired knowledge & understanding as well as intellectual skills and essential professional skills.</p> <p>2. Practical exam to assess ability of the candidate for applying information studied in the course in diagnosis.</p> <p>3. Oral exam to assess the student intellectual and communication skills regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the % of achievement of the intended learning outcomes of the course.</p>											
. Assessment Schedule (Timing of Each Method of Assessment)		<p>Assessment 1: 1 written exam by the end of course.</p> <p>Assessment 2: Practical exam by the end of course.</p> <p>Assessment 3: Oral exam, after the written exam</p>											
C. Weighting of Each Method of Assessment		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Type of Assessment</th> <th style="text-align: left;">Degree</th> </tr> </thead> <tbody> <tr> <td>Written examination</td> <td>(24)</td> </tr> <tr> <td>Practical examination</td> <td>(18)</td> </tr> <tr> <td>Oral examination.</td> <td>(18)</td> </tr> <tr> <td>• Total</td> <td>(60)</td> </tr> </tbody> </table>		Type of Assessment	Degree	Written examination	(24)	Practical examination	(18)	Oral examination.	(18)	• Total	(60)
Type of Assessment	Degree												
Written examination	(24)												
Practical examination	(18)												
Oral examination.	(18)												
• Total	(60)												
8. List of References													
A. Course Notes/handouts		<p>1 -General pathology course notes prepared by the department staff and printed material of recorded lectures.</p> <p>2- Lectures' Handouts</p>											
B. Essential Books		<p>1- Goldblum, John R., et al. Rosai and Ackerman's Surgical Pathology E-Book. Elsevier Health Sciences (2017).</p> <p>2- Kumar, V., Abbas, A. K., & Aster, J. C. Robbins basic pathology e-book. Elsevier Health Sciences (2017).</p>											
6. Teaching and Learning Methods for students with limited Capacity													

Not applicable	
C. Recommended Text Books	<ol style="list-style-type: none">1- Liang Jing & David Bostwick. Essentials of anatomic pathology (2011).2- Diana W Molavi. The practice of surgical pathology; A beginner's guide to the diagnostic process (2008).
D. Periodicals, websites	To be determined and updated during the course <ol style="list-style-type: none">1-American Journal of pathology2-The Journal of pathology3-Diagnostic Histopathology4-Pathology outlines5- www.pubmed.com6- www.pathmax.com

Course Specification Pathology	مسمى المقرر
Master degree of Tropical Medicine-(First part))	
TM200	كود المقرر

.....المنيا :.....أكاديمية/جامعة.....

.....كلية / معهد:.....الطب البشرى

.....قسم:.....البياتولوجي

The Matrix of Coverage of Course IL by Contents

Contents	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Acute inflammation	A1	B3	C1	D1,2
Chronic inflammation and granuloma	A2	B3	C1	-
Granuloma	A3	B1, B2, B3	C1,C2	D3
Bilharziasis	A4	B2, B3	C1, C2	-
Bacterial infection	A5	-	C1	-
Cell injury	A6	B3	C2	D2
Repair	A7	-	C1	-
Hemodynamic disorders	A8	B3	C1, C2	D4
Immunopathology	A9	-	C2	D1
Cellular adaptation	A10	-	C2	-
Neoplasia	A11	B3	C1,C2	-
Diseases of the Esophagus	A12	B1,B2,B3	C2,C3,C4	D3
Pathology of the stomach	A13	B1,B2,B3	C1,C3,C4	D1.2
Pathology of the small intestine	A14	B1,B2,B3	C3,C4	-
Pathology of the large intestine	A15	B1,B2,B3	C1,C2,C3,C4	D1,4
Pathology of the Liver	A16	B1,B2,B3	C1,C2,C3,C4	D3
Pathology of the gall bladder	A17	B2	C3,C4	-
Pathology of the pancreas	A18	B1,2	C4	-
Lymphoma	A19	B1,B3	C1,C2,C4	-

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19	B1,2,3	-	D1,2,3,4
Practical	-	-	C1,2,3,4	D3,4
Clinical (Including grand rounds)	-	-	-	-
Presentation/seminar	A12,13,14,15,16,17,18,19	B1,2,3	C1,2,3,4	D1,2,3
Journal club	-	-	-	-
Thesis discussion	-	-	-	-
Training courses & workshops	A12,13,14,15,16,17,18,19	B1,2,3	C3,4	D3,4

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

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1,2,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19	B1,2,3	-	-
Practical exam	-	-	C1,2,3,4	D3,4
Clinical exam	-	-	-	-
Oral Exam	A1,2,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19	B3	C3,4	D1,2
Assignment	-	-	-	-
Structured oral exams	-	-	-	-

Course Coordinator/s:

Assistant Prof. Dr. Maram El-Hussieny Ali

Head of Department

Prof. Dr. Heba Mohamed Tawfik

Late of last update & approval by department Council: 2023





**Blueprint of pathology course
for master degree (1st part)
Tropical Medicine (24 marks)**



No.	Topic	Contact Hours	ILOs	Weight %	Total marks
1	Acute inflammation	4	A1	8.3	2
2	Chronic inflammation and granuloma	2	A2	4.16	1
3	Granuloma	3	A3	6.25	1.5
4	Bilharziasis	3	A4	6.25	1.5
5	Bacterial infection	3	A5	6.24	1.5
6	Cell injury	2	A6	4.16	1
7	Repair	2	A7	4.16	1
8	Hemodynamic disorders	4	A8	8.3	2
9	Immunopathology	2	A9	4.16	1
10	Cellular adaptation	2	A10	4.16	1
11	Neoplasia	4	A11.	8.3	2
12	Diseases of the Esophagus	2	A12	4.16	1
13	Pathology of the stomach	3	A	6.25	1.5
14	Pathology of the small intestine	2	A.14	4.16	1
15	Pathology of the large intestine	3	A15	6.24	1.5
16	Pathology of the Liver	4	A16	8.3	2
17	Pathology of the gall bladder	1	A17	2.08	0.5
18	Pathology of the pancreas	1	A18	2.08	0.5
19	Lymphoma	1	A19	2.08	0.5
	Total	48	-	100%	24

Medical Physiology Course Specifications

For 1st Part Master (MSc) Degree in Tropical (TM200)

University: Minia

Faculty: Medicine

Faculty offering the program: Faculty of Medicine.

Department offering the course: Medical Physiology Department.

Program(s), on which the course is given: MSc Degree in Tropical.

Major or minor element of program(s): Medical Physiology.

Academic year/level: 1st part MSc degree in Tropical.

Date of specification approval: 2022-2023

Basic Information

Title: Medical Physiology course specifications for 1st part MSC degree of Tropical

Code: TM200

Credit Hours: Not applicable

Lectures: 2 hours / week

Tutorial/Practical: Not applicable

Professional information

1) OVERALL AIM OF COURSE:

The aim of the course is to provide the postgraduate students with knowledge about the physiological principles underlying Tropical diseases that aid in interpretation of symptoms, investigations and management.

INTENDED LEARNING OUTCOMES OF COURSE (ILOS)

A. Knowledge and Understanding:

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

A1. Physiology of Hematological System (Blood):

1.1. Identify general composition & functions of blood components.

1.2. Discuss clinical conditions resulting from abnormalities of blood components.

A2. Physiology of Cardiovascular System (CVS):

2.1. Describe the factors affecting and regulation of arterial blood pressure (ABP).

A3. Physiology of Central Nervous System (CNS):

3.1. Identify types, mechanism, body reactions and control mechanisms of Pain.

A4. Physiological basis of Metabolism:

4.1. Describe regulatory mechanisms of body temperature & disorders.

A5. Physiological basis of Endocrinal System:

5.1. Describe in brief mechanisms of Ca²⁺ & Glucose homeostasis.

A6. Physiology of Upper Respiratory System:

6.1. Discuss Acid-base balance.

6.2. Enumerate different types of hypoxia, cyanosis and their effects on the body.

A7. Physiology of Autonomic Nervous System:

7.1. Enumerate distribution & functions of sympathetic and parasympathetic .

7.2. Enumerate chemical transmission in ANS.

A8. Physiology of GIT System:

8.1. Discuss nervous & hormonal regulation of GIT secretion and motility .

8.2. Enumerate different types of motility of GIT .

8.3. Enumerate different hormones secreted by the GIT, and its functions .

8.4. Describe salivary secretion; composition, function, mechanism & its control .

8.5. Discuss different phases of swallowing & the protective reflexes during it .

8.6. Discuss gastric secretion; phases; control of gastric & gastric motility .

8.7. Discuss mechanism of vomiting and its side effects .

8.8. Enumerate types of intestinal motility & its control .

8.9. Discuss composition and functions of exocrine pancreas .

8.10. Discuss cellular mechanism of pancreatic secretion & its control .

8.11. Describe bile secretion, composition, formation, functions & its control .

8.12. Describe bile secretion with clinical applications (jaundice) .

8.13. Discuss control of gall bladder evacuation .

8.14. Discuss control of hepatic circulation.

B. Intellectual Skills:

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

B1. Develop the skills for demonstrating different functions of the body systems related to

Tropical to diagnose deviation from normality as detected disease state.

B2. Assess the problems associated with different factors, which affect the normal function of different body systems related to Tropical.

C. Practical Skills: not included

D. General and Transferable Skills:

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

D1. Adopt the principles of lifelong learning.

D2. Prepare and present clearly and effectively a scientific topic in a tutorial, a staff meeting or the yearly scientific day.

D3. Work efficiently within a team, honor and respect his colleagues.

3-Curriculum structure & contents:

Curriculum structure & contents:

<u>Topic:</u>	No. of Lectures	Total no. of hours
<u>1. Physiology of Haematological System (Blood):</u> <ul style="list-style-type: none"> • General composition & functions of blood components. • Clinical conditions resulting from abnormalities of blood components. 	2	2
<u>2. Physiology of Cardiovascular System (CVS):</u> <ul style="list-style-type: none"> • Arterial blood pressure (APB); factors affecting & its regulation. 		
<u>3. Physiology of Central Nervous System (CNS):</u> <ul style="list-style-type: none"> • Physiology of Pain; definition, types, body reactions & control. 	2	2
<u>4. Physiological basis of Metabolism:</u> <ul style="list-style-type: none"> • Body temperature regulation & disorders. 	2	2
<u>5. Physiological basis of Endocrinal System:</u> <ul style="list-style-type: none"> • Ca⁺² & Glucose homeostasis. 	2	2
<u>6. Physiology of Upper Respiratory System:</u> <ul style="list-style-type: none"> • Acid-base balance. • Central & peripheral control of respiration; Hypoxia & cyanosis. 	2	2
<u>7. Physiology of Autonomic Nervous System:</u> <ul style="list-style-type: none"> • Distribution & functions of sympathetic and parasympathetic. • Chemical transmission in ANS. 	2	2
<u>8. Physiology of GIT System:</u> <ul style="list-style-type: none"> • Nervous & hormonal regulation of GIT secretion and motility. • Different types of motility of GIT. • Different hormones secreted by the GIT, and its functions. • Salivary secretion; composition, function, mechanism & its control. • Different phases of swallowing & the protective reflexes during it. • Gastric secretion; phases; control of gastric & gastric motility. • Mechanism of vomiting and its side effects. • Types of intestinal motility & its control. • Composition and functions of exocrine pancreas. • Cellular mechanism of pancreatic secretion & its control. • Bile secretion; composition, formation, functions & its control. • Bile secretion with clinical applications (jaundice). • Control of gall bladder evacuation. • Control of hepatic circulation. 	10	10
Total	12	24

TEACHING AND LEARNING METHODS:

1. Lectures (2hr/wk.) throughout the academic year interchangeable with recorded lectures.
2. Self-learning activities such as use of internet and multimedia.

STUDENT ASSESSMENT METHODS:

1. Written exam to assess the student's knowledge in the form of short essay questions and /or MCQs.
2. Oral exam to assess student's knowledge, intellectual and general skills as well as assessing the verbal communication abilities.
3. Log book.

Assessment Schedule:

- Assessment 1: Final written exam.
- Assessment 2: Final oral exam.

Weighting of assessment:

- Final written exam 12 marks (40%)
- Final oral exam 28 marks (60%)
- Total 40 marks (100%)

LIST OF REFERENCES:

1. Department books and notes.

Prepared by Medical Physiology Department staff members, Faculty of Medicine, Minia University.

2. Essential books (Text Books):

- Ganong review of medical physiology.
- Guyton text book of medical physiology.

4. Periodicals, Web sites... etc. LIST OF REFERENCES**FACILITIES REQUIRED FOR TEACHING AND LEARNING:**

1. Classrooms with data show for lectures.
2. Computers and internet facilities.

Course Coordinator, Head of Department,

Dr. Eman Elbassuoni Prof. Dr. Merhan Mamdoh Ragy

Date of last update & approval: by Department council: 1/2023

Head of Department,

Prof. Dr. Merhan Mamdoh Ragy



A. Matrix of Coverage of Course ILOs by Contents

Contents	Intended Learning Outcomes ILOs																													
	A. Knowledge & Understanding																				B. Intellectual skills		D. General & Transferable Skills							
	A 1.1	A 1.2	A 2.1	A 3.1	A 4.1	A 5.1	A 6.1	A 6.2	A 7.1	A 7.2	A 8.1	A 8.2	A 8.3	A 8.4	A 8.5	A 8.6	A 8.7	A 8.8	A 8.9	A 8.10	A 8.11	A 8.12	A 8.13	A 8.14	B 1	B 2	D 1	D 2	D 3	D 4
1. Physiology of Haematological System (Blood)	X	X																							X	X	X	X	X	X
2. Physiology of Cardiovascular System (CVS)			X																						X	X	X	X	X	X
3. Physiology of Central Nervous System (CNS)				X																					X	X	X	X	X	X
4. Physiological basis of Metabolism					X																				X	X	X	X	X	X
5. Physiological basis of Endocrinal System						X																			X	X	X	X	X	X
6. Physiology of Upper Respiratory System							X	X																	X	X	X	X	X	X
7. Physiology of ANS System									X	X															X	X	X	X	X	X
8. Physiology of GIT System											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lectures	X	X	-	X
Self-learning activities	X	X	-	

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

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	X	X	-	-
Oral Exam	X	X	-	X
Log Book	X	X	-	X

Course Coordinator,
Dr. Eman Elbassuoni

Head of Department,
Prof. Dr. Merhan Mamdoh Ragy

Date of last update & approval
by Department council: 3/2023

Merhan M. Ragy

Topics	ILOs	Content Hours	Knowledge %	Intellectual %	Wightt %	Total Mark	Actual Mark
Physiology of Hematological System (Blood): general composition & functions of blood components. Clinical conditions resulting from abnormalities of blood components Physiology of cardiovascular System (CVS): the factors affecting and regulation of arterial blood pressure (ABP).	1&2	4	70	30	16.6	2	2
Physiology of Central Nervous System (CNS): types, mechanism, body reactions and control mechanisms of Pain.	3	2	70	30	8.3	1	1
Physiological basis of Metabolism: regulatory mechanisms of body temperature & disorders. Physiological basis of Endocrinal System: mechanisms of Ca ²⁺ & Glucose homeostasis.	4&5	4	70	30	16.6	2	2
Physiology of Upper Respiratory System: Acid-base balance. different types of hypoxia, cyanosis and their effects on the body	6	2	70	30	8	1	1
Physiology of ANS System: Distribution & functions of sympathetic and parasympathetic. Chemical transmission in ANS. Physiology of GIT System	7	2	70	30	8.3	1	1
	8	10	70	30	42	5	5
		24			100	12	12
Total							

3-Medical Biochemistry course specification for master degree in Tropical Medicine ((First part)

University: Minia

Faculty: Medicine

Department: Medical Biochemistry

Last date of approval 3\2023

1. Course Information	
<ul style="list-style-type: none"> Academic Year/level: First Part of Master Degree 	<ul style="list-style-type: none"> Course Title: First Part of Master Degree in Endemic Medicine (Tropical)
<ul style="list-style-type: none"> Code: TM200 	
<ul style="list-style-type: none"> Number of teaching hours: Lectures: 30 hours; 1 hour/week 	
2. Overall Aims of the course	<p>By the end of the course the student must be able to:</p> <ol style="list-style-type: none"> 1. Provide the postgraduate student with the medical Knowledge and skills essential for the practice of specialty and necessary to gain. 2-To understand all molecular basics and diseases. 3-To know different molecular techniques and their advanced applications. 4-To better understand and use the research tools including internet and different laboratory equipment. 5-To know retrieving the literature and understanding the evidence-based medicine 6-Maintain learning abilities necessary for continuous medical education. 7-Maintain research interest and abilities.
3. Intended learning outcomes of course (ILOs):	
<i>Upon completion of the course, the student should be able to:</i>	
Knowledge and Understanding -A	<p>The student finishes the course; he will be able to achieve the following objectives:</p> <ol style="list-style-type: none"> A1. Illustrate various metabolic processes of carbohydrate, lipid and protein A2. Describe role of minerals and hormones and Vitamins in metabolism. A3. Discuss various metabolic diseases and their diagnosis A4. List the role of enzymes in the chemical reactions in the body and its diagnostic importance. A5. Discuss types of gene therapy and its therapeutic effect. A.6. Describe the metabolism of hemoglobin and nucleic acids. A.7- Explain xenobiotics and their detoxification. A8- Explain principles, methodologies, tools and ethics of scientific research.
Intellectual Skills -B	<ol style="list-style-type: none"> B1-Develop the skills for analysis of different diseases to reach a final diagnosis. B2-Develop the ability to solve problems associated with metabolic diseases. B3-Develop the ability to integrate metabolic pathways with diseases.
Professional and Practical Skills -C	<p>After completing the course, the student should be able to</p> <ol style="list-style-type: none"> C1. Organize groups, as a leader or as a colleague. C2. Practice willingly the presentation skills through the attendance and participation in scientific activities.

General and transferable Skills -D	<p>After completing the course, the student should be able to</p> <p>D1. Be aware of the advanced biomedical information to remain current with advances in knowledge and practice (self-learning).</p> <p>D2. Prepare for medical progress by having advanced medical research studies</p>
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4- Course Contents			
Topic	Lecture hours))	Practical/Clinical hours))	Total No. of hours
1. Carbohydrate Metabolism	4	---	4
2. Lipid metabolism	4	---	4
3. Protein metabolism	3	---	3
4. Purines and pyrimidine Metabolism	2	---	2
5. Enzymes	2	---	2
6. Minerals	4	---	4
7. Hormones	3	---	3
8. Vitamins	3	---	3
9. Xenobiotics	2	---	2
10. Gene Therapy	1	---	1
11. Hemoglobin metabolism	2	---	2
Total	30	---	30
5-Teaching and Learning Methods	<p>1-Lectures & discussions.</p> <p>2-Assignments</p> <p>3-Attending and participating in scientific conferences and workshops to acquire the general and transferable skills needed</p>		
6-Teaching and Learning Methods for students with limited Capacity	Additional lectures, adjusting time and place of lectures according to their schedule and capacity		
7- Student Assessment			
A-Student Assessment Methods	<p>1- Written exam to assess the capability of the student for assimilation and application of the knowledge included in the course.</p> <p>2-Oral exam to assess the student intellectual and communication skills regarding basic knowledge and understanding of the course topics, and to</p>		

	help the teaching staff to evaluate the % of achievement of the intended learning outcomes of the course
B-Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: <i>one written exam</i> by the end of the course Assessment 2: <i>Oral exam</i>, after the written exam Formative only assessment: log book.
C-Weighting of Each Method of Assessment	Written examination: 12 marks Oral examination: 18 marks Total: 30 marks
8- List of References	
A-Course Notes/handouts	Lectures notes are prepared in the form of a book authorized by the department.
B-Essential Books	-Harper's Biochemistry, Robert K. Murray, Daryl K. Granner, Peter A. Mayes, and Victor W. Rodwell (32th edition, 2022)
C- Recommended Text Books	a. Lubert Stryer, Biochemistry (9th edition, 2019) b. Lehninger, Biochemistry (8th edition, 2021) c. Lippincott, Biochemistry (7th edition, 2017)
D-Periodicals, websites	To be determined and updated during the course work. Websites: 1- http://www.Medical Biochemistry.com . Periodicals: 1- International journal of biochemistry 2- Science Direct

Course Coordinator/s:

Dr. Ahmed Mohamed, Dr. Heba Marey

Head of Department:

Prof. Dr. Salama Rabie Abd El Rahiem



D

ate of last update & approval by department Council: 3 / 2023

مسمى المقرر	جزء اول ماجستير الأمراض المتوطنة
كود المقرر	

جامعة/أكاديمية : ..المنيا
كلية / معهد ::الطب.....
قسم : الكيمياء الحيوية

A. Matrix of Coverage of Course ILOs By Contents

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
		A	B	C	D
1. Carbohydrate Metabolism	1	A1 A3 A4	B3	C2	
2. Lipid metabolism	2	A1 A3 A4	B2 B3	C2	
3. Protein metabolism	3	A1 A3 A4	B1 B2 B3	C1 C2	
4. Purines and pyrimidine metabolism	4	A3 A6	B1	C1	
5. Enzymes	5	A4	B2		
6. Minerals	6	A2 A3	B1	C1	
7. Hormones	7	A2 A3	B3	C2	
8. vitamins	8	A2 A3	B1	C2	
9. Xenobiotics	9	A7	B1 B3		
10. Gene Therapy	10	A5	B3	C1	
11. Hemoglobin metabolism	11	A3 A6	B2	C2	

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1 A2 A3 A4 A5 A6	B2 B3		
Practical			C1 C2	D1
Presentation/seminar				D1 D2
Journal club				D1 D2
Training courses & workshops				D1 D2
Other/s (Specify)		B3 B1	C1 C2	D1 D2

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

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1 A2 A3 A4 A5 A6 A7 A8	B1 B2 B3		
Oral Exam	A1 A2 A3 A4 A5 A6 A7	B2 B3		
Assignment				D1 D2
Other/s(Specify)		B1 B2	C2	D2

Blueprint of Medical Biochemistry Department

	Topic	Hours	Knowl edge %	Intellectu al %	% of topic	No of items per topic	Knowledge		ntellectual		Marks	Actual mark
							No of Item s	Mark	No of Items	Mark		
1	Carbohydrat e metabolism	4	70	30	13.3	2	1	0.8	1	0.8	1.6	1.5
2	Lipid metabolism	4	70	30	13.3	2	1	0.8	1	0.8	1.6	1.5
3	Protein metabolism	3	75	25	10	2	1	0.6	1	0.6	1.2	1
4	Purine and pyrimidine metabolism	2	70	30	6.6	2	1	0.4	1	0.4	0.8	1
5	Enzymes	2	70	30	6.6	2	1	0.4	1	0.4	0.8	1
6	Minerals	4	80	20	13.3	2	1	0.8	1	0.8	1.6	1.5
7	Hormones	3	75	25	10	1	1	0.6	1	0.6	1.2	1
8	Vitamins	3	75	25	10	2	1	0.6	1	0.6	1.2	1
9	Xenobiotics	2	75	25	6.6	2	1	0.4	1	0.4	0.8	1
10	Gene Therapy	1	80	20	3.3	2	1	0.2	1	0.2	0.4	0.5
11	Hemoglobin metabolism	2	80	20	6.6	2	1	0.4	1	0.4	0.8	1
	Total	30			100 %						12	12

**Course Specifications of Medical Parasitology
for
Master's degree in Tropical Medicine (1st part)**

University: Minia

Faculty: Medicine

Department offering the programme: Tropical Medicine department

Department offering the course: Medical Parasitology department

Programme(s) on which the course is given: Master's degree in Tropical Medicine (1st part)

1. Course Information		
Academic Year/level: Master's degree in Tropical Medicine (1 st part)	Course Title: Medical Parasitology	Code: TM200
<ul style="list-style-type: none"> • Number of teaching hours: <ul style="list-style-type: none"> - Lectures: 36 hours (1.5 hours/week) - Practical/clinical: 24 hours (1 hours/week). - Total: 60 hours 		
2. Overall Aims of the course	<p><i>By the end of the course the student must be able to:</i> By the end of the course the student should be able to have the professional knowledge of the parasites affecting human beings all over the world and particularly in Egypt, so to be able to efficiently protect, diagnose, treat and advice the parasite victims correctly</p>	
3. Intended learning outcomes of course (ILOs):		
<i>Upon completion of the course, the student should be able to:</i>		
A. Knowledge & understanding	<p>A. 1. Identify and define common parasitological terms. A. 2. Classify parasites according to their general characters in each family. A. 3. State the geographic distribution of important parasitic infections. A. 4. Describe and discuss the common parasitic disease caused by helminth and protozoa as regard infective stage, mode of infection, and life cycle of parasites of medical important A.5. List causes of some clinical phenomenae associated with some parasites A.6. Identify and describe pathogenesis, clinical pictures, differential diagnosis and complications of common helminthes and protozoan diseases. A. 7. List causes of some clinical phenomena associated with some parasites A. 8. List the recommended laboratory tests. A. 9. Outline principle of treatment and prevention and control of common parasitic diseases A. 10. Describe biology and Classify arthropods that are mechanical and biological vectors of important human pathogens. A. 11. Describe the clinical picture of arthropods infestations to man as a cause of allergy or disease. A. 12. State and illustrate the basic principles of immunity and immunopathology in parasitic infection.</p>	
B. Intellectual Skills	<p>B. 1. Solve problems of case scenario (for clinical problem solving) B. 2. Categorize the parasites according to the affected organs. B. 3. Apply self-learning skills in data collection and group discussion</p>	

C. Professional and Practical Skills	C.1. Identify the infective and the diagnostic stages of the parasites C.2. Identify some stages of the parasites. C.3. Identify some of the medically important intermediate host		
D. General and transferable Skills	D.1. Work coherently and successfully as a part of a team and team's work. D. 2. Use the advanced biomedical information to remain current with advances in knowledge and practice (self-learning). D. 3. Play role in the medical progress by having advanced medical information. D. 4. Be aware about the presentation skills through the attendance and participation in scientific activities. D. 5. Communicate ideas and argue effectively		
4. Course Contents			
Topic	No. of hours	Lecture	Tutorial/ Practical
Introduction	2	2	-
Trematoda	12	8	4
Cestoda	6	4	2
Nematoda	10	6	4
Protozoa	14	8	6
Arthropods	12	6	6
Immunity	2	2	-
Revision	2	-	2
Total	60	36	24
5. Teaching and Learning Methods	Lectures: Face to face lectures, Pre-recorded video lectures Practical lessons Self-learning activities such as use of internet and multimedia.		
6. Teaching and Learning Methods for students with limited Capacity			
7. Student Assessment			
A. Student Assessment Methods	7. 1. Paper-based exam: <ul style="list-style-type: none"> • Short essay: to assess knowledge& understanding. Problem solving: to assess intellectual skills. MCQ: to assess knowledge& understanding, intellectual skills. 7. 2. Practical Exams: to assess practical skills, intellectual skills. 7. 3. Oral Exams: Oral exams to assess knowledge & understanding, intellectual skills and transferable Skills 7.4. Assessment without marks: Log book - Assess practical, general and transferable skills - Candidate Logbook should be fulfilled and signed by Head of the department. -Attendance Criteria: Minimum acceptance attendance is 75%		
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final paper-based exam by the end of the course. Assessment 2: Practical exam after the paper-based exam Assessment 3: Oral exam after the paper-based exam		
C. Weighting of Each Method of Assessment	Final based-paper Examination: 40% (12 marks) Oral Examination: 30% (9 marks) Practical Examination: 30 % (9 marks) Total: 100 % (30 marks)		
8. List of References			

A. Course Notes/handouts	Department notes, lectures and handouts
B. Essential Books	<p>- Peters' Atlas of Tropical Medicine and Parasitology 7th Edition (Laura Nabarro, Stephen Morris-Jones, David Moore).</p> <p>- Tropical Medicine and Parasitology 5th Edition (Wallace Peters, Geoffrey Pasvol).</p>
C. Recommended Textbooks	<p>- Manson's tropical Infectious Diseases 23th Edition (Jeremy Farrar, Peter J. Hotez, Thomas Junghanss, Gagandeep Kang, David Lalloo, Nicholas J. White).</p> <p>- Diagnostic Medical Parasitology. New York: Elsevier, 2016 (Garcia, Lynne Shore, and David A. Bruckner).</p>
D. Periodicals, websites	

- **Course Coordinator**
Professor Dr. Amany Mohamed Kamal
- **Head of Department:**
Professor Dr. Manal Zaki Mohamed

Manal Zaki Mohamed

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

Date of last update & approval by department council: 6/ 3 / 2023

(11) نموذج رقم

جامعة المنيا	
كلية الطب	
قسم الطفيليات الطبية	
مسمى المقرر	Medical Parasitology
كود المقرر	TM200

Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Introduction	A.1, A.2			
Trematoda	A.3, A.4, A.5, A.6, A.7, A.8, A.9	B.1, B.2	C.1, C.2	
Cestoda	A.3, A.4, A.5, A.6, A.7, A.8, A.9	B.1, B.2	C.1, C.2	
Nematoda	A.3, A.4, A.5, A.6, A.7, A.8, A.9	B.1, B.2	C.1, C.2	
Protozoa	A.3, A.4, A.5, A.6, A.7, A.8, A.9	B.1, B.2	C.1, C.2	
Arthropods	A.10, A.11	B.1, B.2	C.3	
Immunity	A.12			

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A.1, A.2, A.3, A.4, A.5, A.6, A.7, A.8, A.9, A.10, A.11, A.12	B.1, B.2		
Practical			C.1, C.2, C.3	
Self-learning		B.3		D.1, D.2, D.3, D.4, D.5

Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Paper-based exam	A.1, A.2, A.3, A.4, A.5, A.6, A.7, A.8, A.9, A.10, A.11, A.12	B.1, B.2		
Practical exam		B.1	C.1, C.2, C.3	
Oral Exam	A.1, A.2, A.3, A.4, A.5, A.6, A.7, A.8, A.9, A.10, A.11, A.12	B.1, B.2, B.3		D.1, D.2, D.3, D.4, D.5

Log book			C.1, C.2, C.3	D.1, D.2, D.3, D.4, D.5
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**Test blueprint for Medical Parasitology course Master's degree in Tropical
Medicine (1st part)**

Topic	Hour	% of topic	Written exam (12 marks)		Marks	Modified marks
			Knowledge	Intellectual		
Introduction	2	5.5%	1	-	0.6	1
Medical Helminths	18	50%	7	2	5.4	5
Medical Protozoa	8	22.2%	7	2	2.4	3
Arthropods	6	16.7%	2	2	1.8	2
Immunity	2	5.5%	1	-	0.6	1
Total	36	100%				12

5 Course Specifications of Medical Microbiology and Immunology for Tropical medicine master program (TM200)

University: Minia

Faculty: Medicine

Department: Medical Microbiology and Immunology

1. Course Information		
Academic Year/level: postgraduate students	Course Title: Medical Microbiology and Immunology for Tropical medicine Master postgraduate students.	Code: TM200
<ul style="list-style-type: none"> - Number of teaching hours: - Lectures: Total of 40 hours; 2 hours/week - Practical/clinical: Total of 5 hours; 1 hours/week 		
1.Overall Aims of the course	By the end of the course the student must be able to: <ol style="list-style-type: none"> 1. Know the different types of pathogens, their structure and pathogenesis 1. Know the different methods for laboratory diagnosis and control of different infectious agents. 3. Know the different molecular microbiological techniques and their applications. 4. Know the basics of the host-parasite relationships and the role of the immune system in defending the body against different pathogens and its role in health and disease. 5. Know the principles of biosafety measures and aseptic precautions. 	
3.Intended learning outcomes of course (ILOs):		
<i>Upon completion of the course, the student should be able to:</i>		
A-Knowledge and Understanding	A1 Identify microbial morphology, structure, metabolism and physiology of medically significant microorganisms A2. Discuss the basis of microbial genetics and biotechnology techniques and their applications. A3. Recognize the taxonomy and classification of different microorganisms. A4. Identify the natural habitat, source of infection and mode of transmission of the different classes of pathogens. A5. Identify the different levels of host-parasite relationship and recognize the microbial virulence factors A6. Recognize the role of the immune system in the health and disease of the human being. A7. Enumerate the causes, sources, mode of transmission and treatment of nosocomial infections and know the different methods for infection control.	
B-Intellectual Skills	B1. Analyze of different cases of infection to reach a final diagnosis and microbiological identification of the causative organism B1. Develop the ability to solve problems associated with different infections such as microbial resistance to antimicrobial agents, reach a final diagnosis of a certain pathological condition caused by an infectious organism.	

C- Professional and Practical Skills	<p>C1. Apply professional applications such as managing a microbiology laboratory.</p> <p>C2. Identify different microbes at microbiology laboratory using basic techniques</p> <p>C3. Apply standards of infection control</p> <p>C4. Apply standard protocol in collection of pathological samples</p>
D-General and transferable Skills	<p>D1. Manipulate microbiological samples and reach a microbiological diagnosis of an infection.</p> <p>D2. Write protocols for identification of a given microorganism.</p> <p>D3. Communicate with colleagues and patients regarding a case caused by a microorganism.</p> <p>D4. Work in/with different groups.</p> <p>D5. Manage a microbiological laboratory.</p>

4.Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	T o t a l N o . o f h o u r s
1. Introduction and collection of pathological samples		1	1
2. Cleaning, sterilization and disinfection		1	1
3. Antimicrobial chemotherapy	2	1	2
4. Bacteremia, toxemia and toxic shock	2		1
5. Fever	2		1
6. Laboratory techniques used in epidemiology		1	1
7. Basic immunology 1	2		1
8. Basic immunology 2	2		1
9. Hypersensitivity reactions	2		1

10. Typhoid fever	2		1
11. Mycobacterial infections	2		1
12. Rickettsial infections	2		1
13. General virology	2		1
14. Viral Hepatitis	2		1
15. Human immunodeficiency	2		1
16. Covid-19	2		
17. Hemorrhagic fevers	2		1
18. Bacterial, viral and fungal GIT infections	2		1
19. Blood-transmitted diseases	2		1
20. Vector-transmitted diseases	2		1
21. Nosocomial infections	2		1
22. Infection control	2	1	2
23. Occupational safety	2		1
Total	40	5	4 5
5. Teaching and Learning Methods	Lectures Practical sessions Seminars		
6. Teaching and Learning Methods for students with limited Capacity	Self-learning activities such as use of internet and multimedia.		
7. Student Assessment			
A. Student Assessment Methods	End of course written exam: A paper based exam to assess the student's comprehension and understanding of the class work Oral exam: to assess student's intellectual and communication abilities regarding basic knowledge and understanding of the course topics. Practical exam: objective structured practical examination to assess student professional and practical skills		
B. Assessment Schedule (Timing of Each Method of Assessment)	End of course exam (written, oral and practical exams) Week 23		
C. Weighting of Each Method of Assessment	Final written Examination: 12 marks Oral Examination: 9 marks practical Examination: 9 marks Total 30 marks		
8. List of References			

A. Course Notes/handouts	Department Books, and notes on Medical Microbiology and Immunology by microbiology department, Faculty of medicine, Minia university
B. Essential Books	Jawetz, Melnick and Adelberg's Medical Microbiology 17th edition by Riedel. S (2019); McGraw-Hill Education Review of Medical Microbiology and Immunology 17th edition by warren levinson (2022); McGraw-Hill Education
C. Recommended Text Books	Janeway's Immunobiology 9 th edition by Kenneth Murphy and Casey Weaver , (2016); Garland Publishing Inc. NY, London.
D. Periodicals, websites	TBD and updated during the course work

Course Coordinator: Dr. Dalia Nabil

Head of Department : Prof. Dr. Wafaa Khairy



A. Matrix between ILOs and course topics

Intended Learning Outcomes (ILOs)				Contents (List of course topics)
D. General & Transferable Skills	C. Professional & Practical skills	B. Intellectual Skills	A. Knowledge & Understanding	
D	C	B	A	
D4 D5	C1,C4	B1	A3 A5 A7	1. Introduction and collection of pathological samples

D1 D3	C1,C4	B1	A3 A5 A6	2. Cleaning, sterilization and disinfection
D1 D3	C1	B1	A1 A5 A6	3. Antimicrobial chemotherapy
D1 D2 D3	C1, C2	B1 B2	A1 A5 A7	4. Bacteremia, toxemia and toxic shock
D1 D3 D5	C1	B1	A1	5. Fever
D1 D4	C1,C3	B1	A1	6. Laboratory used in epidemiology
D3	C1,C4	B1	A3 A7	7. Basic immunology 1
D1 D3 D4	C1,C4	B1	A1 A2 A4	8. Basic immunology 2
D1	C2	B1 B2	A3 A4 A5	9. Hypersensitivity reactions
D1 D3 D4	C4,C1	B1	A1,A6, A7	10. Typhoid fever
D1 D3 D4	C1, C4	B1 B2	A1 A5	11. Mycobacterial infections
D5	C1	B1	A3 A4	12. Rickettsial infections
D3	C1,C4	B1	A3 A4	13. General virology
D1 D3	C1, C4	B1 B2	A1 A3	14. Viral Hepatitis
D1 D3 D4	C1, C2	B1	A5 A6	15. Human immunodeficiency
D1,D1,D3	C1, C4	B1,B1	A1,A2,A3	16. Covid-19

D3 D4	C1	B1	A4 A5 A6	17. Hemorrhagic fevers
D3 D4	C1,C3,C4	B1	A3 A4	18. Bacterial, viral and fungal GIT infections
D3 D5	C1, C3,C4	B1	A1 A2 A4 A6	19. Blood-transmitted diseases
D3	C1, C3,C4	B1	A4 A5	20. Vector-transmitted diseases
D4 D5	C1,C1,C4	B1	A1	21. Nosocomial infections
D4	C1,C4,C3	B1	A1 A2 A3	22. Infection control and
D3 D4	C1 C2	B2	A1A2A7	23. Occupational safety

B.Matrix of Coverage of Course ILOs by Methods of Teaching				
Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1 A2 A3 A4 A5 A6 A7			
Practical			C1 C2 C3 C4	D1 D2 D5
Presentation/seminar				D3 D4
C.Matrix of Coverage of Course ILOs by Methods of Assessment				
Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1 A2CA3 A4 A5 A6 A7	B1		
Practical exam			C1 C2 C3 C4	D1 D2 D5
Oral Exam				D3, D4

**Blueprint of Medical Microbiology and Immunology Exam paper for 1st part of Master of Tropical Medicine (TM200)
(12 marks)**

(List of course topics)	HOURS	Intended learning outcomes ILOS		N of item per topic	% of topic	Knowledge & Understanding		Intellectual Skills		Total mark	Actual mark
		Knowledge & Understanding	Intellectual Skills			No of items	mark	No of items	mark		
24. General	8	70%	30%	4	20	2	1.5	1	0.9	2.4	2.5
25. Immunology	6	70%	30%	3	15	2	1.2	1	0.6	1.8	1.5
26. Bacteriology	6	70%	30%	3	15	2	1.2	1	0.6	1.8	2
27. Virology	6	70%	30%	3	15	2	1.2	1	0.6	1.8	2
28. Applied Microbiology	10	70%	30%	5	25	4	2	2	1	3	3
29. Nosocomial Infection and Infection control	4	70%	30%	2	10	2	0.8	1	0.4	1.2	1
Total	40				100 %					12	12

6- Course Specifications of Internal medicine in Master Degree in Tropical Medicine

University: Minia

Faculty: Medicine

Department: Internal Medicine

1. Course Information		
Academic Year/level: 1 st part MSc tropical Medicine	Course Title: Course Specifications of Internal Medicine in Master degree in tropical medicine	Code: TM 200
Number of teaching hours:80 hours		
- Lectures: Total of 40 hours		
- Practical/clinical: Total of 40 hours		
Overall Aims of the course	To deliver an advanced knowledge of main topics of internal medicine and its subspecialties relevant to tropical medicine. Once the candidate can recognize a wide range of medical problems; and establish an advanced skill to deal safely with medical emergencies in tropical medicine specialty.	
Intended learning outcomes of course (ILOs):		
<i>Upon completion of the course, the student should be able to:</i>		
A- Knowledge and Understanding	<p>A1. Recognize the basic pathology and microbiology of medical diseases.</p> <p>A2. Identify the etiologies and risk factors of medical diseases.</p> <p>A3. List the differential diagnosis of medical problems.</p> <p>A4. Describe the various therapeutic models/alternatives used for medical problems.</p> <p>A5. Enumerate the common diagnostic and laboratory techniques necessary to solve medical problems.</p> <p>A6. Describe the mechanism of action, side effects and complications of common therapeutic drugs.</p> <p>A7. Mention the principles, ethics and legal aspects of professional practice in the field of internal medicine.</p> <p>A8. List different diagnostic alternatives that help reaching a final diagnosis.</p>	

<p>B- Intellectual Skills</p>	<p>B1. Interpret data acquired through history taking to reach a provisional diagnosis for medical diseases.</p> <p>B2. Select different diagnostic alternatives that help reach a final diagnosis.</p> <p>B3. Make link between knowledge for professional problem solving.</p> <p>B4. Analyze reading of research and issues related to the <u>tropical</u> medicine.</p>		
<p>C- Professional and Skills</p>	<p>C1. Take a good medical history and conduct a proper general examination.</p> <p>C2. Examine normal and abnormal physical signs by proper regional examination of the body</p> <p>C3. Write and evaluate medical reports.</p> <p>C4. Plan in the patient's management.</p> <p>C5. Assess methods and tools in diagnosis and management <u>in internal medicine</u>.</p> <p>C6. Interpret adequately the results of common laboratory investigations.</p> <p>C7. Interpret adequately X-ray, CT and ultrasonic images of common medical problems.</p> <p>C8. Evaluate adequately the patient's acute morbidity score and need for urgent intervention.</p>		
<p>D- Skills General and</p>	<p>D1. Communicate effectively with patients and their families.</p> <p>D2. Assess himself and identify personal learning needs.</p> <p>D3. Develop personal skills in writing a case summary and a simple essay.</p> <p>D4. Prepare and present different topics using power point and data show.</p> <p>D5. Use different sources for information and knowledge continuously.</p> <p>D6. Use information technology to serve the development of professional practice</p> <p>D7. Work in teamwork.</p> <p>D8. Manage Scientific meetings according to the available time.</p> <p>D9. Present problematic <u>internal medicine</u>-cases in seminars.</p> <p>D10. Communicate effectively by all types of effective communication.</p>		
<p>2. Course Contents</p>			
<p>Topic</p>	<p>Lecture hours</p>	<p>Practical/Clinical</p>	<p>Total No. of hours / <u>Week</u></p>

Nephrology urine analysis nephrotic syndrome nephretic syndrome chronic kidney diseases hypokalemia , hyperkalemia acidosis alkalosis	10	10	
Hematology: - <ul style="list-style-type: none"> ● Anemias ● Coagulopathies ● Platelet dysfunction disorders ● Bleeding diathesis 	10	10	
Cardiovascular system:- <ul style="list-style-type: none"> ● Hypertension ● Infective endocarditis ● Ischemic heart disease ● Congestive heart failure - oxygen therapy 	10	10	
Endocrinology:- <ul style="list-style-type: none"> ● Diabetes mellitus and its complications (acute and chronic). ● Parathyroid gland & Calcium homeostasis. ● Thyroid diseases. ● Hyperlipidemias. ● adrenal diseases ● corticosteroids 	10	10	
Total	40	40	80

3. Teaching and Learning Methods	1-Talk and chalk method in classes. 2-Power point demonstration 3-Practical clinical examination in clinical wards. 4- Medical web sites in the Network. 5- Discussion of medical problems in clinical round. 6- online lectures
4. Teaching and Learning Methods for students with limited Capacity	Special session for training and tutorials.
5. Student Assessment	
A. Student Assessment Methods	1- Research assignment for the students to assess the general and the skills. 2- Log book to assess clinical and transferable skills, attendance to conferences and oral discussions of thesis. 3- Final written and commentary exam to assess Knowledge, understanding and intellectual skills. 4- Final oral exam to assess knowledge and understanding. 5- Final practical exam to assess practical skills.
Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1 ... Assignment.... Week: 8-16-24 Assessment 2...according to department schedule. Assessment 3.... Final written exam. Week ... <u>24</u> <u>Assessment 4 ...Final practical exam Week: 24</u> <u>Assessment 5.....Final oral exam Week....24</u>
C-Weighting of Each Method of Assessment	Assignment and log book: 10 % including: Written Exam 24 Oral Exam. 18 Practical Exam 18 Total 60

6. List of References:	
A. Course Notes/handouts	Lecture notes prepared by staff members in the department.
B. Essential Books	Davidson's Principles and Practice of Medicine 24th Edition - March 1, 2022 Macleod's Clinical Examination, J. Alastair Innes, Anna R Dover P, Karen 4th Edition, 2018
C. Recommended Text Books	- Kumar and Clarke Textbook of Medicine; Parveen Blackwell Science; 10 th edition, 2020 Methods of Clinical examination (Salah Ibrahim)
D. Periodicals, websites	Pubmed.com Biomed.net.com Free medical journal.com Annals of internal medicine.com

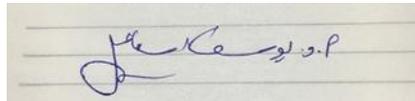
9- Facilities required for teaching and learning:	
	<ul style="list-style-type: none">- Library in the hospital- NET data information- Clinical staff rounds and case presentations.- Lectures courts.- In patients clinical wards teaching (bed-side teaching)- Seminars.- Clinical rounds teaching in classrooms.- Medical conference attendance.- Thesis discussion attendance.

Course Coordinator/s:

Assistant Prof. Dr. Asmaa kassem Ahmad

Head of Department:

Prof. Dr. Yousouf Ismail Mousa

Date of last update & approval by department Council: 5\3\2023

نموذج رقم (١١)

الامراض المتوطنه	مسمى المقرر
TM 200	كود المقرر

جامعة المنيا
كلية لطب
قسم: الباطنه العامه

A-Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Week	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understand	B. Intellectual Skills	C. Professional & Practical sk	D. General & Transferable S
		A	B	C	D
Nephrology <ul style="list-style-type: none"> urine analysis nephrotic syndrome nephritic syndrome chronic kidney diseases hypokalemia, acid base 	1 to 7	1-8	1-4	1-8	1-10
Haematology <ul style="list-style-type: none"> anemias coagulation platelet dysfunction bleeding diath 	8 to 11	1-8	1-4	1-8	1-10
Cardio vascular system: <ul style="list-style-type: none"> Hypertension Infective endocarditis Ischemic heart disease Congestive heart 	12 to	1-8	1-4	1-8	1-10
oxygen therapy	16	1-8	1-4	1-8	1-10
endocrinology Diabetes mellitus and its complications (acute and chronic).	17	1-8	1-4	1-8	1-10
Thyroid diseases.	18	1-8	1-4	1-8	1-10

Hyperlipidemias.	19	1-8	1-4	1-8	1-10
adrenal diseases	20	1-8	1-4	1-8	1-10
Parathyroid gland & Calcium homeostasis. Corticosteroids	21	1-8	1-4	1-8	1-10

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	1-8	1-4		
Clinical (Including grand rounds)			1-8	1-10
Presentation/seminar	1-8	1-4	1-8	1-10
Journal club	1-8	1-4	1-8	1-10
Thesis discussion	1-8	1-4	1-8	1-10
Training courses &	1-8	1-4	1-8	1-10

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

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	1-8	1-4		
Clinical exam			1-8	1-10
Oral Exam	1-8	1-4		

Blue Print of Internal Medicine for candidates of master degree in Tropical medicine (first part) examination paper (24 marks)

	Topic	Hours	Knowledge%	Intellectual%	% of topic	Knowledge mark	Intellectual Mark	Marks	Actual Mark
1	1) Nephrology	10	70	30	25%	4	2		6
2	2) Hematology	10	75	25	25%	4	2		6
3	3) Cardiovascular system	10	75	25	25%	4	2		6
4	4) Endocrinology	10	75	25	25%	4	2		6
	Total	40			100%				24

7-- Public Health and Community Medicine Course Specifications

Postgraduate (MSC) Programme for Tropical Medicine Department

University: Minia University

Faculty: Faculty of Medicine

Course specifications

Programme(s) on which the course is given: First part MSC in Tropical Medicine

Department offering the programme: Tropical Medicine Department

Department offering the course: Department of Public Health and Community Medicine

Academic year/ Level: First part of MSC

A- Basic Information

Title: Master Degree in Tropical Medicine

Code: TM 200

Lecture: 2 hours/ week

Tutorial: -----

Practical: -----

Total:2 H/week

B- Professional Information

1 - Overall aims of course

- a. Prepare a community-oriented physician capable of anticipating and responding to community health needs according to the policies, regulations, and guidelines MOHP.
- b. To use precisely the research methodology in researches.
- c. Inform public policy, disseminate health information, and increase awareness of public health concerns through disease surveillance, needs assessment, and program evaluation.

3.Intended learning outcomes of course (ILOs):

Upon completion of the course, the student should be able to:

A- Knowledge and Understanding

- A1. Illustrate a knowledge base in, communicable and non-communicable diseases epidemiology, and environmental health.
- A2 Describe epidemiology of COVID-19 virus and identify Strategies to Reduce Spread of Covid-19
- A3 Describe methods of sampling strategies and sample size

	<p>calculation</p> <p>A4 Recognize the basics of infection control measures, and their role in disease prevention</p> <p>A5 Describe nutritional needs to all age groups e.g. Children, pregnant and lactating mothers and old age group.</p> <p>A6. Identify environmental health hazards</p>
B-Intellectual Skills	<p>B1- Criticize prevention and control programs of diseases</p> <p>B2 Reframe the community toward evidence based medicine , how to protect from diseases and environmental hazards</p>
C-Professional and Practical Skills	<p>C1 Demonstrate trends in health and disease including epidemiological causes of high prevalence of certain infections , causes of eradication , emerging or reemerging previous infections worldwide and in Egypt</p> <p>C2- Use appropriate health promotion, disease prevention and control measures to identified priority communicable diseases and under specific situations</p>
D-General and transferable Skills	<p>D1 Evaluate indicators of health and disease</p> <p>D2 Identify prevalent health problems in a community, using various epidemiological strategies</p> <p>D3 Collect and verify data from different sources</p> <p>D4 Organize and manage data, including graphic and tabular presentations</p> <p>D5 Analyze and interpret data</p> <p>D6 Anticipate and participate in investigation of an epidemic/outbreak as part of a health team</p> <p>D7 Apply appropriate health promotion, disease prevention, and control measures</p> <p>D8 Apply disease prevention and control measures to identified priority communicable and non-communicable diseases</p> <p>D9 Participate in conducting public health surveillance.</p>

3-Contents

Clinical department	Topic	No. Of hours	
		Theoretical	Practical
Tropical Medicine	Communicable diseases	2	NA

	Nutrition	2	NA
	Environmental Health	2	NA
	General epidemiology	2	NA
	Statistics & research design	2	NA

Teaching and learning methods

4.1- Lectures

5- Student assessment methods

5.1 Writing Exam

5.2 Oral Exam

Weighting of assessments

Oral examination: 36

Writing examination 24

Total 60

6- List of references

6.1- Course notes: Department Books, and notes, Logbook

6.2- Essential books (text books)

MAXCY ROSENAU PUBLIC HEALTH AND PREVENTIVE MEDICINE TWELFTH EDITION, JOHN M. LAST, (EDITOR),APPLETON CENTURYCROFTS/NORWALK, CONNECTICUT.USA

6.3- Periodicals:

-American Journal of Epidemiology

-International Journal of Epidemiology

-International Journal of Public Health

-Egyptian Journal of Community Medicine

6.4-Web Sites: www.cdc.gov www.who.gov

7- Facilities required for teaching and learning

Public Health and Community Medicine skill laboratory equipped with skill tools.

Class rooms for theoretical lectures and tutorials.

Program Coordinators:

Dr Shimaa Mahmoud Dr Chrestina Monir

Head of Department: Prof Dr Nashwa Nabil

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

Date of last update & approval by department council: 6/3/ 2023

A handwritten signature in blue ink, appearing to read "Nashwa N. Nabil", is written over a faint rectangular box.

Post-Graduate Course Specifications of Community Medicine for 1 st part_MSC degree	مسمى المقرر
TM200	كود المقرر

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

قسم: الصحة العامة والطب الوقائي

A. Matrix of Coverage of Course ILOs By Contents

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
		A	B	C	D
General Epidemiology <ul style="list-style-type: none"> - Determinants of health and diseases - Prevention and control - Investigations of outbreak - Surveillance - Emerging diseases -Neglected tropical diseases 		A1	B1		D1 to D9
Environmental health: <ul style="list-style-type: none"> -Environmental Health hazards. - Water and waste management - Food safety. - Physical hazards <ul style="list-style-type: none"> - Infection control measures 		A6	B2	C1,C2	D1 to D9
Epidemiology of communicable diseases: (6 per week) <ul style="list-style-type: none"> 3. Determinants of health and diseases 		A4,A2	B1	C1,C2	

<p>4. Prevention and control 5. Emerging diseases 6. Neglected tropical diseases 7. Zoonotic diseases 8. Arthropod born infections 9. Droplet infection 10. Blood born infection 11. sexual transmitted infections</p>					
<p>Medical statistics</p> <p>-Sampling and normal distribution curves</p> <p>-Measures of central tendency and deviation</p> <p>-Data presentation and tests of significance</p> <p>-Introduction to research, research terminology</p> <p>-Study design , different types of study</p>		A3			
<p>Nutrition</p> <p>In Nutrition (4 per week)</p> <p>- <i>Introduction and nutrition:</i></p> <p> Functions of food and nutrition in relation to human beings Definition of food, nutrition, calories Planning balance diet Measurement of energy</p> <p>- <i>Nutritional Elements</i></p> <p>- <i>Nutrition throughout the life cycle</i> Nutritional requirements in infancy, preschool age, school age, adolescence, adult, pregnancy, lactation and geriatric nutrition.</p> <p>- <i>Nutritional assessment</i> - <i>Malnutrition diseases</i> - <i>Dietetics</i></p>		A5			

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,A2,A3,A4,A5,A6	B1,B2,		
Practical			C1,C2	
Assignment				From D1 to D9

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

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1, A2, A3, A4, A5.A6	B1,B2,B3,B4		
Oral Exam	A1	B1, B4, B3		D1 to D9

Test blueprint community for 1st part tropical master examination

Topic	Hour	% of topic	Total No. of items	Written exam		Marks	Modified marks
				Knowledge	Intellectual		
General epidemiology	2	20%	5	3	2	5	
Environmental health	2	20%	5	3	2	5	
Communicable diseases	2	20%	5	3	2	5	
Medical Statistics	2	20%	5	3	2	5	
Nutrition	2	20%	4	2	2	4	
Total	10		15			24	

8-Course Specification of Medical Ethics Master degree of Tropical medicine (2022-2023)

University: Minia

Faculty: Medicine

Program on which the course is given: Master degree of Tropical medicine

Major or minor element of program: Medical ethics, ethics of medical research

Department offering the program: Tropical medicine Department

Department offering the course: Forensic Medicine & Clinical Toxicology Department

Academic year / Level: First part

A. Basic Information		
Academic Year/level: ● Post graduate; 1 st Part MSC, Tropical medicine	Course Title: ● Course Specification of Medical Ethics (Master degree of Tropical medicine)	Code: ●
● Number of teaching hours: - Lectures: Total of 42 hours; 2 hour/week - Practical: Total of 21 hours; 1 hour/week		
B- Professional Information		
Overall Aims of the course	By the end of the course the student should be able to identify the value of studying and practicing medicine, the duties of doctors towards their patients, colleagues and community, the ethics in medical consultations among colleagues and also able to explain respect the patient's confidentiality and secrets, recognize the role of health care providers in the community and describe medical errors, negligence and legal issues, ethics of medical research especially on human beings and finally able to explain ethics and evidence based medicine	
2. Intended learning outcomes of course (ILOs): <i>Upon completion of the course, the student should be able to:</i>		
Knowledge and Understanding -A	A.1- Identify the basic concept of learning and practicing medicine from the religious and human point of view. A.2- Identify the very beneficial impressive history of medicine; ethics related. A.3- Classify the main principles of medical ethics.	

	<p>A.4- Recognize an integrated approach to deal with patients, their families, community and medical staff in an ethical, legal and human manner.</p> <p>A.5- Identify rules in law and regulations to deal with patients in practicing medicine.</p> <p>A.6- Explain the standard and accredited methods of clinical research especially on human beings.</p>
Intellectual Skills -B	<p>B.1- Design approach to patients in different situations; critical and noncritical ones.</p> <p>B.2- Develop adequate communication skills with patients, community and colleagues.</p> <p>B.3- Conclude in medical researches on clear ethical basis.</p> <p>B.4- Use knowledge and learn according to standard basis worldwide.</p> <p>B.5- Apply and practice medicine according to concepts of evidence-based medicine.</p> <p>B.6- Recognize common ethical dilemma and suggest a proper solution.</p>
Professional and Practical Skills -C	<p>C.1- Use a high professional approach with colleagues and patients.</p> <p>C.2- Modify steps of upgrading his/her educational, academic and clinical carriers.</p> <p>C.3- Use the standard guidelines in managing patients.</p> <p>C.4- Identify what is called as clinical governance and auditing his /her Performance.</p>
General and transferable Skills -D	<p>D.1- Identify how to respect his/herself and the profession.</p> <p>D.2- Develop adequate behavior and skill communications with community.</p> <p>D.3- Modify life and live like others sharing social and national affairs.</p> <p>D.4- Develop the capacity of helping people and share in upgrading their culture and education.</p> <p>D.5- Identify how to participate in the national and social affairs and responsibilities.</p>

2- Course Contents

TOPIC	Lecture Hours	Practical Hours	Total hours
Medical Responsibility and Duties of the physician	2	1	3

Medicolegal aspect of cloning	2	1	3
Defensive Medicine	2	1	3
Diagnosis of death & Death Certificates	2	1	3
Consent in medical field	2	1	3
Medical malpractice	2	1	3
Medicolegal aspect of abortion	2	1	3
Medicolegal importance of Organ transplantation	2	1	3
Operative precautions and Diagnosis of death	2	1	3
Medical syndicate	2	1	3
Professional secrecy	2	1	3
Surrogacy	2	1	3
Female circumcision	2	1	3
Physician disciplinary proceeding	2	1	3
Medicolegal aspect of artificial insemination	2	1	3
Domestic Violence	2	1	3
Euthanasia (Mercy death)	2	1	3
Ethics in medical research	2	1	3
Medical reports	2	1	3
Rules of using addictive drugs among physicians	2	1	3
Medical certificates	2	1	3
Total	(42 hr.) 2/W	(21 hr.) 1/W	(63 hr.) 3/W

Teaching and Learning Methods -ξ	4.1 - Straight lectures; power point presentations 4.2 - Practical lessons 4.3 - Brain storming with the students 4.4 - Questions and Answers
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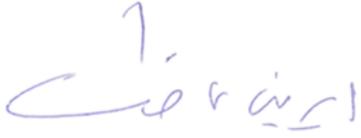
Teaching and Learning Methods to students with limited Capacity -0	(Not applicable)
6- Student Assessment	
Student Assessment Methods .A	<u>TENDANCE CRITERIA:</u> by Faculty laws (log book) <u>ASSESSMENT TOOLS:</u> *Final Written exam: short essay to asses knowledge and understanding problem solving to asses intellectual skills MCQ to assess knowledge and intellectual skills *Oral exam; to asses knowledge and understanding. Also intellectual skills, attitude, and communication. *Practical exam: to assess practical and professional skills
Assessment Schedule .B	<ul style="list-style-type: none"> ● Final Written exam week: 24-28 ● Oral exam week: 24-28 ● Practical exam week: 24-28
Weighting of Assessment .C	<ul style="list-style-type: none"> ● Final Written exam 40% (40 Marks) ● Oral & Practical exams 60% (60 Marks) ● Total 100% (100 Marks)
7- List of References	
Course Notes/handouts .A	Department book by staff members. Log Book.
Essential Books (text books) .B	Medical Ethics Manual, 2nd Edition John R. Williams, 2009. Medical Ethics, 2nd Edition, Michael Boylan, 2014.
Recommended Books .C	Text book of medical ethics, Erich H. Loewy, 1989
Periodicals .D	Journal of Medical Ethics Journal of Medical Ethics and History of Medicine
Web sites .E	https://en.wikipedia.org/wiki/Medical_ethics https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5074007/
Facilities required for teaching and learning -Λ	Classrooms for theoretical lectures and tutorials

Course Coordinators:

Prof. Dr. Morid Malak Hanna

Dr. Mennatallah Mahmoud Ahmed

Head of Department:
Fawzy**Prof. Dr. Irene Atef**

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Date of last update & approval by department council: 5/3/2023

Course Specification of Medical Ethics	مسمى المقرر
Master degree of medical ethics	
(First part)	
	كود المقرر

.....جامعة/أكاديمية :.....المنيا

.....كلية / معهد:.....الطب البشرى

.....قسم:.....الطب الشرعى والسموم الأكلينكية

A. The Matrix of Coverage of Course IL by Contents

Contents	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Medical Responsibility and Duties of the physician	A1,3	B4	C1	D1,2
Medicolegal aspect of cloning	A1,2	B3	-	-
Defensive Medicine	A4,5	B6	C3	D3
Diagnosis of death & Death Certificates	A1,2	B2	-	-
Consent in medical field	A2,5	-	-	-
Medical malpractice	A1,6	B5	C4	D5

Medicolegal aspect of abortion	A5,6	B3	-	-
Medicolegal importance of Organ transplantation	A1,2,3	-	-	D4
Operative precautions and Diagnosis of death	A2,4,5	B2	-	D1,2,3
Medical syndicate	A2,4,6	-	C2	-
Professional secrecy	A1,3,4	B1	-	-
Surrogacy	A1,2	-	-	-
Female circumcision	A3,4	-	C1,2	D1,2
Physician disciplinary proceeding	A1,4	B1,2	-	-
Medicolegal aspect of artificial insemination	A1,6	B3,5	C3	D1,4
Domestic Violence	A1,5	-	-	-
Euthanasia (Mercy death)	A2,6	-	C4	-
Ethics in medical research	A1,4	B1,2	-	-
Medical reports	A,3,4	B3,6	-	-
Rules of using addictive drugs among physicians	A5,6	-	-	-
Medical certificates	A2,5	B3,6	-	-

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,2,3,4,5,6	B1,2,3,4,5,6	-	-
Practical	-	-	C1,2,3,4	-
Presentation/seminar	-	-	-	D1,2,3,4,5
Journal club	-	-	-	-
Thesis discussion	-	-	-	-
Training courses & workshops	-	-	-	D1,2,3,4,5

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

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1,2,3,4,4,5,6	B1,2,3,4,5	-	-
Practical exam	-	-	C1,2,3,4	-
Oral Exam	A1,2,3,4,4,5,6	B1,2,3,4,5	-	-

Blueprint of 1st master of Tropical medicine

Postgraduates" Medical Ethics Examination Paper (40 marks)

	Topic	Hours	Knowledge %	Intellectual %	% of topic	N of items Per topic	Knowledge		Intellectual		Marks	Actual Mark
							N of items	Mark	N of items	Mark		
1	Medical Responsibility and Duties of the physician & Defensive Medicine	4	75	25	13.32	1	1	5.32	1	10	5.32	5
2	Medicolegal aspect of cloning	2	75	25	6.66	1	1	2.66	---	---	2.66	3
3	Diagnosis of death & Death Certificates	2	75	25	6.66	1	1	2.66	---	---	2.66	3
4	Consent in medical field & Medical malpractice	4	70	30	13.32	1	1	5.32	1	10	5.32	5
5	Medical syndicate & Professional secrecy	4	75	25	13.32	1	1	5.32	---	---	5.32	5
6	Physician disciplinary proceeding & Euthanasia (Mercy death)	4	75	25	13.32	1	1	5.32	1	10	5.32	5
8	Ethics in medical research	2	80	20	6.66	1	1	2.66	---	---	2.66	3
9	Medical reports & Medical certificates	4	80	20	13.32	1	1	5.42	1	10	5.42	5
10	Rules of using addictive drugs among physicians	2	75	25	6.76	1	1	2.66	---	---	2.66	3
	Total	30			100%			40		40	40	40

9 Course Specifications of infectious diseases & hepatology and GIT diseases in Master degree in tropical medicine

University: Minia

Faculty : Medicine

1.Basic Information
<p>Course Title: Tropical Medicine Code: TM 200 Academic Year/level: Postgraduate, Master degree (2nd part), Tropical. Date of specification approval: 2022/2023</p>
<p>• Number of teaching hours:</p> <p>-Lectures / hours : 23h. Infection, 22 h hepatology 19 h GIT -clinical: -10 h. Infection, 14 h hepatology ,11h. GIT</p>
2. Overall Aims of the course
<p><i>By the end of the course the student must be able to:</i></p> <p>Over all aim of the course</p> <p>By the end of the course the student must be able to extend an advanced knowledge in different infectious & liver and GIT diseases, so the candidate can recognize a wide range of different medical problems and establish an advanced clinical skill to deal with it.</p> <p>Provide recent scientific knowledge essential for the mastery of this specialty according to the international standards.</p> <p>Rule on skills necessary for proper diagnosis and management of patients in this field including diagnosis, problem Identification and decision making.</p> <p>Acquire all competencies that enable him to provide safe, scientific, ethical and evidence based care including update use of new technology. Maximize learning abilities necessary for continuous medical education and research interests . Acquire decision making capabilities in different situations.</p> <p>Show appropriate attitudes and professionalism.</p>

3. Intended learning outcomes of course (ILOs):

Upon completion of the course, the student should be able to:

<p>A- Knowledge and Understanding</p>	<p>A1 Discuss the essential facts and principles of relevant basic sciences including normal, physiology, Pathology, Biochemistry and microbiology related to Infectious diseases & gastrointestinal tract and hepatobiliary systems.</p> <p>A2- Recognize knowledge of biomedical, clinical, epidemiological, and social-behavioral sciences, as well as the application of this knowledge to the care of patients with gastrointestinal, hepatic, and Infectious diseases.</p> <p>A3- Identify the principles of quality assurance of professional practice in the field of tropical medicine</p> <p>A4- Discuss the effect of professional practice on the environment and the methods of environmental development and maintenance.</p> <p>A5- Describe recent advances in the various therapeutic methods/alternatives used for hepatic and GIT diseases.</p> <p>A6- Explain the recent and update developments in the pathogenesis, diagnosis, prevention, and treatment of common diseases related to gastrointestinal, hepatic and Infectious diseases.</p> <p>A7- Define the basic ethical and medico legal principles that should be applied in practice and are relevant to various diseases</p> <p>A8- Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of Infectious & hepatic and GIT diseases.</p> <p>A9- Identify the basics, methodology and ethics of scientific research and maintenance</p>
<p>B- Intellectual Skills</p>	<p>By the end of the study of master In tropical medicine, the graduate should be able to:</p> <p>B1- Interpret data acquired through history taking to reach a provisional diagnosis for hepatic, Infectious, and GIT Diseases.</p> <p>B2- Innovate non-traditional solutions for hepatic and GIT Problems.</p> <p>B3- Judge different diagnostic alternatives the ones that help reaching a final diagnosis for hepatic & GIT problems and Infectious diseases.</p> <p>B4- Interpret an investigatory and analytic thinking approach (problem solving) to common clinical situations.</p> <p>B5- Formulate management plans and alternative decisions in different situations</p>

	<p>B6- Design and /or present a case or review (through seminars/journal clubs.) in one or more of common clinical problems relevant to the specialty.</p> <p>B7-Adopt Scientific discussion based on scientific evidence and proofs</p> <p>B8 Design a plan for improving the departmental performance in the field of teaching and research.</p> <p>B9-Apply safety measures during professional practicing in mangling different medical cases</p> <p>B10- Design the principles and fundamentals of quality assurance of professional practice in the field of gastroenterology and hepatology.</p> <p>B11-Operate training for being able to decision-making in a variety of professional situations as in critical problems.</p>
<p>C- Professional and Practical Skills</p>	<p>By the end of the study of master program in hepatology, gastroenterology and infectious diseases the Graduate should be able to</p> <p>C1-Perform the basic and modern professional skills in the area hepatology & gastroenterology and infectious diseases.</p> <p>C2 - perform different kinds of medical diagnostic tests like ultrasounds, and endoscopies to diagnose and treat patients affected with problems of liver and GIT diseases.</p> <p>C3-Evaluate of medical reports.</p> <p>C4-Recomend new technological methods to serve the professional practice.</p> <p>C.5-Engage in research and conduct studies to gain a better understanding and develop new and more effective methods of treatment</p>
<p>D- General and transferable Skills</p>	<p>. By the end of the study of master program in hepatology, gastroenterology and infectious diseases the Graduate should be capable of:</p> <p>D1- Communicate effectively by all types of effective communication</p> <p>D2- Use information technology to serve the development of professional practice</p> <p>D3- Assess himself and identify his personal needs</p> <p>D4 – use different sources to obtain information and knowledge</p> <p>D5- Develop rules and indicators for assessing the performance of others.</p> <p>D6- Work in a team, and team's leadership in various professional contexts</p> <p>D7- Mange time by right way.</p> <p>D8- Prepare and integrate scientific activities as seminars, journal clubs , scientific meetings or conferences. Improve his practice through constant self-evaluation and life-long learning</p>

4- Course contents

Subject	Lecturer 1 hour/ week	Practical 2 hour/ week	Total
Vaccine schedules	1		1
Antimicrobial	1		1
Bacterial infection	1	1	2
Covid 19 typical presentation and complication	1		1
mycobacterial infection & non mycobacterial infection	1		1
Parasitic infection	2	1	3
Viral infection	3	1	4
Systemic Fungal infection	2		2
Opportunistic infection	1	1	2
Sexually transmitted diseases	1		1
Protozoal infection	2	1	3
CNS infections	1	1	2
Respiratory infections	1	1	2
GIT infection	2	1	3
Fever of unknown origin	1	1	2
Heat disorders	1		1
Nosocomial infection	1	1	2
Total	23	10	33
HEPATOLOGY			
Investigations of liver disease (liver function tests, hepatic imaging and liver biopsy, radioisotopic studies)	1		1
Approach to the Patient with Abnormal Liver Enzymes	1		
Circulatory and Vascular liver diseases	1	1	2
Covid 19 in hepatic patient	1		2
Alcoholic Liver Diseases	1	1	2
Autoimmune Liver Diseases	2	1	3
Metabolic liver diseases	1	1	2
NASH- NAFLD	1	1	2
Drug-Induced and Toxic Liver Disease	1		1
Pregnancy-Specific Liver Diseases.	1		1

Liver Cirrhosis (etiology, clinical picture, diagnosis and treatment)	2	2	4
liver cell failure	2	2	4
portal hypertension	1	1	2
Ascites	2	2	4
Primary Tumors of the Liver and Intrahepatic Bile Ducts	1	1	2
Jaundice and cholestasis	2	1	3
Liver Transplantation	1		1
Total	22	14	36
GIT			
Upper and lower GI bleeding	1	1	2
Vascular Lesions of the Gastrointestinal Tract	1	1	2
Lab. Imaging, Endoscopic and others Gastrointestinal complications of endoscopy and post ERCP complications	2		2
Gastroesophageal Reflux Disease	1	1	2
Functional GIT Disorders	2		2
Esophageal Tumors	1	1	2
Peptic Ulcer Disease and its Complications	1	1	2
Tumors of the Stomach	1	1	2
Pancreatitis	1	1	2
Malabsorption	2	1	3
Acute and chronic diarrhea	2	1	3
Inflammatory bowel diseases	1	1	2
Malignant Neoplasms of the small and Large Intestine	2	1	3
GIT manifestation of Covid 19	1		1
Total	19	11	30

5-Teaching and Learning Methods

- 1- lectures
- 2- practical training
- 3- weekly seminars, presentations and assignments
- 4- Training courses & workshops.
- 5- Conference attendance
- 6- Journal club

6-Student Assessment

A. Student Assessment Methods

- Assessment 1:

Written exam to assess the acquired knowledge & understanding as well as intellectual skills and essential professional skills.

2-Clinical exam to assess ability of the candidate for applying information studied in the course in diagnosis.

3-Oral exam to assess the student intellectual and communication skills regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the % of achievement of the intended learning outcomes of the course

B. Assessment Schedule

(Timing of Each Method of Assessment)

Assessment 1: 1 written exam by the end of course.

Assessment 2: clinical exam by the end of course.

Assessment 3: Oral exam, after the course.

C. Weighting of Each Method of Assessment

- Weighting of Assessments total 700
- Written exams :280
- Clinical Exams: 200

- Oral exam : 220

7-List of References

1- course notes

2- Hunter's Tropical Medicine and Emerging Infectious Diseases.NINTH EDITION (2012)

3-Mandell, Douglas, and Bennett's:Infectious Disease ESSENTIALS (2017).

SHERLOCK'S DISEASES OF THE LIVER AND BILIARY SYSTEM (2018) -\

Zakim and Boyer's Hepatology: A Textbook of Liver Disease (Seventh Edition) – 2018 -\

Yamada's Handbook of Gastroenterology FOURTH EDITION 2020 -\

Periodicals, W ebSites, ... etc -\

<http://www.ncbi.nlm.gov>.

<http://www.emedicine> <http://Freemedicaljournals.com>

For practical

-BAT E S' Pocket Guide to Physical Examination AND History Taking-2017

8-Teaching and Learning Methods for students with limited Capacity

Not applicable

Master degree of Tropical Medicine	مسمى المقرر
TM200	كود المقرر

.....جامعة/أكاديمية المنيا

.....كلية / معهد: الطب البشرى

.....قسم: .. الأمراض المتوطنة

The matrix of the ILOs of infectious diseases hepatology and gastrointestinal courses

Subject	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Vaccine schedules	A2,A3,A4	B7,B8,B9		
Antimicrobial	A2,A3,A4,A5,A7	B7,B8,B9,B12		
Bacterial infection	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Covid 19 typical presentation and complication	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11,	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
mycobacterial infection & non mycobacterial infection	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Parasitic infection	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Viral infection	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Systemic Fungal infection	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Opportunistic infection	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Seually transmitted diseases	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Protozoal infection	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
CNS infections	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11,	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Respiratory infections	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
GIT infection	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Fever of unknown origin	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11,	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Heat disorders	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Nosocomial infecton	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11,	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Investigations of liver disease(liver	A6,A8	B2		

function tests, hepatic imaging and liver biopsy, radioisotopic studies)				
Approach to the Patient with Abnormal Liver Enzymes	A6,A8	B2		
Circulatory and Vascular liver diseases	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Covid 19 in hepatic patient	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Alcoholic Liver Diseases	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Autoimmune Liver Diseases	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Metabolic liver diseases	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
NASH- NAFLD	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Drug-Induced and Toxic Liver Disease	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Pregnancy-Specific Liver Diseases.	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Liver Cirrhosis (etiology, clinical picture, diagnosis and treatment)	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
liver cell failure	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
portal hypertension	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Ascites	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Primary Tumors of the Liver and Intrahepatic Bile Ducts	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Jaundice and cholestasis	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Liver Transplantation	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Upper and lower GI bleeding	A2	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Vascular Lesions of the Gastrointestinal Tract	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Lab. Imaging, Endoscopic and others Gastrointestinal complications of endoscopy and post ERCP complications	A5,A7,A8	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Gastroesophageal Reflux Disease	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Functional GIT Disorders	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Esophageal Tumors	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Peptic Ulcer Disease and its Complications	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8

Tumors of the Stomach	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Pancreatitis	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Malabsorption	A1,A2 A3, A4,A5,A6,A7,A8,A9	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Acute and chronic diarrhea	A1,A2 A3, A4,A5,A6,A7,A8,A9		C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,2,3,4,5,6,7,8,9	B1,2,3,4,5,6,7,8, 9,10,11	-	-
Clinical		-	C1,2,3,4,5	-
Weekly Presentation/seminar		B1,2,3,4,5,6,7,8, 9,10,11	-	D1,2,3,4,5,6,7,8
Journal club		-	C1,2,3,4,5	D1,2,3,4,5,6,7,8

Conference attendance	-	-	C1,2,3,4,5	D1,2,3,4,5,6,7,8
Training courses & workshops	-	-	C1,2,3,4,5	D1,2,3,4,5,6,7,8

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

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1,2,3,4,4,5,6,7,8,9	B1,2,3,4,5,6,7,8,9,10,11	-	D1,2,3,4,5,6,7,8
Practical exam	-	-	C1,2,3,4,5	-
Oral Exam	A1,2,3,4,4,5,6,7,8,9	B1,2,3,4,5,6,7,8,9,10,11	-	-

Course coordinator: Prof Dr. Hala Ibrahim

Head Department: Prof. Dr. Wael Abdelghany

Last update : 5/3/2023



Blueprint Tropical medicine Master second part (Total 280 marks)**Paper 1**

Subject	Lecturer 1 hour/ week	% of topic	Knowledge%	Intellectual%	mark	Actual mark
Vaccine schedules	1	4.35	50	50	6.1	6
Antimicrobial	1	4.35	50	50	6.1	6
Bacterial infection	1	4.35	50	50	6.1	6
Covid 19 typical presentation and complication	1	4.35	50	50	6.1	6
mycobacterial infection &non mycobacterial infection	1	4.35	50	50	6.1	6
Parasitic infection	2	8.7	50	50	12.1	12
Viral infection	3	13	50	50	18.2	18
Systemic Fungal infection	2	8.7	50	50	12.1	12
Opportunistic infection	1	4.35	50	50	6.1	6
Sexually transmitted diseases	1	4.35	50	50	6.1	6
Protozoal infection	2	8.7	50	50	12.1	12
CNS infections	1	4.35	50	50	6.1	7
Respiratory infections	1	4.35	50	50	6.1	7
GIT infection	2	8.7	50	50	12.1	12
Fever of unknown origin	1	4.35	50	50	6.1	6
Heat disorders	1	4.35	50	50	6.1	6
Nosocomial infection	1	4.35	50	50	6.1	6
Total	23	100%	50%	50%	140.2	140

Paper 2

Subject	Lecturer 1 hour/ week	% of topic	Knowledge%	Intelctual%	mark	Acual mark
Investigations of liver disease (liver function tests, hepatic imaging and liver biopsy, radioisotopic studies)	1	2.5	50	50	3.5	3.5
Approach to the Patient with Abnormal Liver Enzymes	1	2.5	50	50	3.5	3
Circulatory and Vascular liver diseases	1	2.5	50	50	3.5	3.5
Covid 19 in hepatic patient	1	2.5	50	50	3.5	3.5
Alcoholic Liver Diseases	1	2.5	50	50	3.5	3.5
Autoimmune Liver Diseases	2	5.4	50	50	7.5	7.5
Metabolic liver diseases	1	2.5	50	50	3.4	3.5
NASH- NAFLD	1	2.5	50	50	3.4	3.5
Drug-Induced and Toxic Liver Disease	1	2.5	50	50	3.4	3.5
Pregnancy-Specific Liver Diseases.	1	2.5	50	50	3.4	3.5
Liver Cirrhosis (etiology, clinical picture, diagnosis and treatment	2	2.5	50	50	3.5	3.5
liver cell failure	2	2.5	50	50	3.5	3.5
portal hypertension	1	2.5	50	50	3.5	3.5
Ascites	2	5.4	50	50	7.5	7.5
Primary Tumors of the Liver and Intrahepatic Bile Ducts	1	2.5	50	50	3.5	3.5
Jaundice and cholestasis	2	5.4	50	50	7.5	7.5
Liver Transplantation	1	2.5	50	50	3.5	3.5
Upper and lower GI bleeding	1	2.5	50	50	3.5	3.5

Vascular Lesions of the Gastrointestinal Tract	1	2.5	50	50	3.5	3.5
Lab. Imaging, Endoscopic and others Gastrointestinal complications of endoscopy and post ERCP complications	2	5.4	50	50	7.5	7.5
Gastroesophageal Reflux Disease	1	2.5	50	50	3.5	3.5
Functional GIT Disorders	2	5.4	50	50	7.5	7.5
Esophageal Tumors	1	2.5	50	50	3.5	3.5
Peptic Ulcer Disease and its Complications	1	2.5	50	50	3.5	3.5
Tumors of the Stomach	1	2.5	50	50	3.5	3.5
Pancreatitis	1	2.4	50	50	3.5	3.5
Malabsorption	2	5.4	50	50	7.5	7.5
Aute and chronic diarrhea	2	5.4	50	50	7.5	7.5
Inflammatory bowel diseases	1	2.4	50	50	3.5	3.5
Malignant Neoplasms of the small and Large Intestine	2	5.4	50	50	7.5	7.5
GIT manifestation of Covid 19	1	2.4	50	50	3.4	3.5
Total	41	100%	50%	50%	140	140

إنيس القسم

د. محمد عبد المنعم

