

كلية الطب- جامعة المنيا قسم الأمر اض 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: <u>singlev</u> 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 Ibrahem
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.

<u>1. Program Intended Learning Outcomes (I LOs)</u>

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

hepatolobiliary 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- Mange 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 cession 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 cession 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 <u>department council</u>: 13-5-2013, last update of program specification approval by <u>department council</u>: 5-3-2023.

3- programm Structure and Contents

3.A- Program duration: 2 years

Торіс	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week	
First part				
Public Health and preventive	10		10	
Medicine				
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 Biochemistery (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	
	Lectures	Practical	Tutoria	Covered	
					
First part		1			
Medical Microbiology	40	5		A 1-A2 -A6-A8	
And minunology				B3-B4-B5-B7-B9-B11	
				C3-C4	
				D1-8	
Medical Biochemistry	30			A1-A2-A6-A 8	
				В 3,-В4-В7	
				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	
	10			A2-A4	
Public Health and community				B9,B10	
Medicine				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	
	1	1			

5- Program admission requirements:

1. General requirements:

A. Candidates should have either:

1. MBBCH degree from any Egyptian faculty of medicine or

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

B. Candidate should complete the house office training year.

C. 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: 1^{st} in April – 2^{nd} 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: 1^{st} in October — 2^{nd} 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	B.Intellectual Skills
assignments	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

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: • Short essay .A- Knowledge & understanding • MCQs **B.** Intellectual Skills Complete True or false and correct the wrong Commentary • • Problem solving 3. Practical/Clinical C. Professional & Practical skills Exams Aknowledge & understanding **B-** Intellectual skills 4. Oral Exams

8-Methods of student assessment:

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	Method/tool	Sample
whom)		
1-Senior students (Students of final years)	Questionnaire s	https://docs.google.com/forms/d/e/1FAIpQLSdBv464Iegx0eS0UqiRxr0 -5QEatKuXVSQh4bRPrzx4nA/viewform?usp=sf_link https://docs.google.com/forms/d/e/1FAIpQLSfsT7ZEB5- o1hQIsBvrkIEw7ug4gI0r04TFAjlx3icAqHEhjg/viewform?usp=sf_link
2-Graduates (Alumni)	Questionnaire s	https://docs.google.com/forms/d/e/1FAIpQLSdBv464Iegx0eS0UqiRxr0 -5QEatKuXVSQh4bRPrzx4nA/viewform?usp=sf_link
3- Stakeholders	Meeting Questionnaire s	https://docs.google.com/forms/d/e/1FAIpQLSfsT7ZEB5- o1hQIsBvrkIEw7ug4gI0r04TFAjlx3icAqHEhjg/viewform?usp=sf_link
Externa & Internal evaluators and external examiners	Reports	Attached to the file

5Quality	Reports	Attached to the file
Unit	Questionnaire	
	Site visits	

CourseCoordinator:

• prof. Dr Hala Ibrahem

- 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

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Annex (1): Comparison between General Academic Reference

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

مصفوفه توافق المعايير القوميية القياسيه العامه لبرامج الماجستير مع المعايير الأكاديميه

المعتمده من كليه الطب جامعة المنيا لدرجه الماجستير في الأمراض المتوطنة

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

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

2.1.4. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال	2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid edical errors
2.1.5. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال	2.1.5. Quality principles in the scholarly field
2.1.6. أساسيات وأخلاقيات البحث العلمي	2.1.6. Basis of research methodology and medical ethics.
2.2. المهارات الذهنية	2.2. Intellectual Skills:
بانتهاء در اسة برنامج الماجستير يجب أن يكون ال	Upon completion of the master program of, the graduate should be able to:
تحليل وتقييم المعلومات في مجال التخصص والقياس 2.2.1 ء	2.2.1. Use judgment skills for analytical and critical problem solving
حل المشاكل المتخصصة مع عدم توافر بعض المعطيات .2.2.2	2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems
الربط بين المعارف المختلفة لحل المشاكل المهنية2.2.3	2.2.3. Be capable of integrating research results and/or results of history, physical and laboratory test findings to solve a research or a clinical problem.
إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية .2.2.4	2.2.4. Effectively apply research methods and carrying out a medical
	research thesis
تقييم المخاطر في الممارسات المهنية في مجال التخصص .2.2.5	2.2.5. Be aware of risk management principles, and patient safety.
التخطيط لتطوير الأداء في مجال التخصص .2.2.6	2.2.6. Establish goals, commitments, and strategies for improved Professional performance in the field of specialty
اتخاذ القرارات المهنية في سياقات مهنية متنوعة .2.2.	2.2.7. Take professional situational decisions and logically support them.
.3.2 المهارات المهنية	2.3 Professional Skills:
بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادر	Upon completion of the master program the graduate must be able to:
إتقان المهارات المهنية الأساسية والحديثة في مجال .3.2.1	2.3.1. Master the basic and some advanced professional skills in his
	scholarly field.
3.2.2كتابة و تقييم التقارير المهني	2.3.2. Write and evaluate medical or scientific reports
2.3.3تقييم الطرق والأدوات القائمة في مجال التخصص	2.3.3 Assess and evaluate technical tools during research
4.2. المهار ات العامة والمنتقلة	2.4 General and transferable skills
بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادر	Upon completion of the master program of, the graduate should be able to:
4.2.1. التواصل الفعال بأنواعه المختلفة	2.41. Communicate effectively using a written medical record
	, electronic medical record, or other digital technology.
4.2.2. استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنيا	2.4.2 Use of information technology (computer to create, process,
	store, secure and exchange electronic data) in the field of medical practice.
. لتقييم الذاتي وتحديد احتياجاته التعلمية الشخصية4.2. 3	.2.4.3. Assess himself and identify personal learning needs
. استخدام المصادر المختلفة للحصول على المعلومات 4.2.4	2.4.4. Use various sources for information (physical and digital sources).

. وضع قواعد ومؤشرات تقييم أداء الأخرين4.3.5	2.4.5. Setting indicators for evaluating the performance of others
. العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة4.2.6	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
. إدارة الوقت بكفاءة 4.2.7	.2.4.7. Manage time efficiently
4.2.8.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	Master program Tropical Medicine ILOs	
(ARS) for Master Program		
2.1. Knowledge & Understanding: Upon completion of the Master Program The graduate should have sufficient knowledge and understanding of:	1.1Knowledge & 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 hepatolobiliary 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
2.1.2. The mutual influence of	A4-discuss the effect of professional practice on the environment and
practice on work environment, working conditions, racteristics.	he methods of environmental development and maintenance.
2.1.3. Scientific developments in the field of Specialization	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.
2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid	A7-Define the basic ethical and medico legal principles that should be
common medical errors	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
2.2. Intellectual Skills: Upon completion of the Master Program (MSc) the graduate should have be able to:	1.2 Intellectual Skills: Upon completion of the Master Program (MSc) in Tropical Medicine the ould have be able to be able to:
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	B3- Judge different diagnostic alternatives the ones that help reaching
and laboratory test findings to solve a research or a clinical problem.	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
2.2.4 Effectively apply recoarch methods	P6 Design and for present a sace or review in one or more of sommon slipical
and carrying out a medical research thesis	be besign and for present a case of review in one of 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.
2.2.5. Be aware of risk management principles, and	B9-Apply safety measures during professional practicing in mangling different
ty.	medical cases
2.2.6. Establish goals, commitments, and	B10- Design the principles and fundamentals of quality assurance of
strategies for improved professional performance in the field of specialty	professional practice in the field of gastroenterology and hepatology
2.2.7. Take professional situational	B11-Operate training for being able to decision-making in a variety of
decisions and logically support them.	professional situations as in critical problems
2.3. Professional Skills:	1.3.1 Professional Skills:
Upon completion of the Master Program (MSc) the graduate should have be able to:	Upon completion of the Master Program (MSc) in Tropical Medicine the
	should have be able to:
3.2.1. Master the basic and some advanced	C1-Perform the basic and modern professional skills in the area of
professional skills in his scholarly field.	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.
2.2.2. Write and evolute modical or	
scientific reports	C3-Evaluate of medical reports.
3.2.3. Assess and evaluate technical tools during research	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
	ucaunent
2. 4 General and transferable skills	1.3.2. General and transferable skills
Upon completion of Master Program (MSc) the	Upon completion of the Master Program (MSc) in Tropical Medicine the
graduate should have be able to	graduate should have be able to
4.2.1. Communicate effectively using a written	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	D2 Use information technology to serve the development of professional
to create, process, store, secure and exchange	practice
electronic data) in the field of medical practice.	
4.2.3. Assess himself and identify personal	D3 Assess himself and identify his personal needs
learning needs	
4.2.4. Use various sources for information	D4 use different sources to obtain information and knowledge
(physical and digital sources).	
4.2.5. Setting indicators for evaluating the	D5 Develop rules and indicators for assessing the performance of others.
performance of others	
4.2.6. Work in a team, and Apply leadership	D6 Work in a team, and team's leadership in various professional contexts
skills to enhance team functioning, the learning	
environment, and/or the health care	
delivery system	
4.2.7. Manage time efficiently	D7-Mange time by right way
4.2.8. Demonstrate skills of self-learning and	D 8-Prepare and integrate scientific activities as seminars, journal clubs,
Lifelong learning needs of medical profession.	neetings, 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 المتوطنه

1- Matrix of Coverage of Program ILOs by Program topics

(Courses)

Courses	Program Intended Learning Outcomes (ILOs)			
	A. Knowledge &	B. Intellectual Skill	C. Professional skill	D. General & Transferable Skill
	Understanding			
First part				
Medical	A 1, A2, A6-A8	B3, B4, B5, B7, B9, B11	C3, C4	D1-8
Microbiology				
and				
Immunology				
Medical	A1, A2, A6, A 8	B 3, B4-B7	C3-C4	D 1-8
Biochemistry				
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	Α7	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		Intended Learni	ng Outcomes (ILOs)	
& Learning				
	A. Knowledge &	B. Intellectual Skills	C. Professional & Practical	D. General & Transferable
	Understanding		skills	Skills
	A	В	с	D
Lecture	A1-A9	B1-B11		
Clinical and			C1-C5	
Practical				
Presentation/seminar	A1-A9	B1-B11	C1-5	D1-D8
Journal club				
Training courses & workshops				
and Conference				
attendance				

Matrix of Coverage of Program ILOs by Methods of assessment

Methods of	Intended Learning Outcomes (ILOs)			
Assessment				
	Knowledge &	Intellectual Skills	Professional & Practical skills	General & Transferable Skills
	Understanding			
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:

Head of Department:

Prof Dr / Hala Ibrahem

Prof.Dr/ Wael Abdelghany

Date 5/3/2023

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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

• Number of teaching hours:

- Lectures: Total of 48 hours; 2 hour/week
- Practical/clinical: Total of 48 hrs., 2 hour/week

2. Overall Aims of the course

By the end of the course the student must be able to:

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): Upon completion of the course, the student should be able to:			
A- Knowledge and	A.1.Illustrate definition, types of acute inflammation		
Understanding	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		

	of primary and secondary infection, pathological
	features and its fate.
	A.4.Explain the reaction to bilharzial infestation,
	pathological features and complications of
	bilharziasis of the intestine, bilharzial hepatic fibrosis
	and bilharzial splenomegaly.
	A.5. Illustrate different forms of bacterial infections
	as bacteraemia, septicaemia, toxaemia and pyaemia.
	Mention their causes and effects on different organs
	A.6.Discuss cellular response to injury, etiology and
	pathological features of reversible cell injury and irreversible cell injury
	A7 Define renair fibrosis and regeneration with
	examples and analyze nathological processes
	A 8 Explain hemodynamic disorders as thrombosis
	embolism ischemia infarction baemorrhage
	gangrene and edema and mention their causes and
	effects on different organs
	A 9 Define hypersensitivity reactions and explain
	nathogenesis of autoimmune diseases
	A 10 Define each of these terms with examples as
	hypertron hyperplasia agenesis hypoplasia
	anlasia and atronhy. Distinguish between the
	disorders of differentiation of the cells as dysplasia
	and metaplasia
	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
A.12.De	fine gastroesophageal reflux disease, and describe
Barrett's	esophagus and its effects. Classify tumors of the
esophagu	s with emphasis on esophageal carcinoma
A.13.Me	ntion etiology of acute and chronic gastritis, with
brief des	ription of its pathological features. Define peptic
ulceration	, its pathogenesis, and its complications. Describe
gastric ca	rcinoma, highlight its pathological features and
mention i	s prognosis.
A.14. E	Explain typhoid ulcer in the small intestine.
Define	dysentery and enumerate its common
types.	and Mention pathogenesis, Define inflammatory
bowel	disease and mention its causes and
compl	ications
A15.Enu	merate types of colonic polypi, Classify
tumors	of the colon giving an account of

colorect	al carcinoma, emphasizing risk factors,
.patholo	gical features
A.16.Ou	tline the main causes of acute and chronic
.viral he	patitis, mention its pathological features
Define live	er cirrhosis, list its classification, mention .
the etiolo	gy of each type and its pathological
features.	Give a brief account on hepatocellular
carcinoma	with emphasizes on risk factors,
.Pathologi	cal features, spread and prognosis
A17 List ca	auses and common types of gall stones.
Describe t	he pathology and complications of acute
and chron	ic cholecystitis
A18. Outli	ne the etiology, pathology and
.complica	tions of acute pancreatitis
A19. Identi	fy the classification of lymphoma and its
main patho	logical features.
	B.1.Analyze the signs and symptoms of a disease
	based on the underlying gross & microscopic tissue
	changes.
	B2 Interpret a pathology report and integrate gross
B- Intellectual Skills	and microsconic findings with the underlying
	etiology
	B3. Solve a problem in a case scenario to reach a
	nrovisional diagnosis
C- Professional and Practical Skills	C1. Write adequate pathological description
	concerning main features of gross appearance of a
	museum specimen
	C2. Use the light microscope to examine and identify
	microscopic findings of some solected examples of
	studied diseases
	Studied diseases.
	c3- Learn proper nandling of and processing tissue
	Specimens sent for pathological examination.
D. Concerci and transferable Skills	C4- Write a pathological request.
General and transferable Skills	UL Demonstrate efficient communication &
	interpersonal skills in all its forms and in different
	situations that may involve senior staff, colleagues,
	other nealth care professionals, and patients
	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.

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

Торіс		Lecture	Pra	ctical	Total	hours		
		nours		Juis				
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						
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. Te	aching and Learn	ing Methods					
5.1. Lectures: Both face to face & on-line. 5.2. Practical sessions: Gross pathology an 5.3. Self-learning activities for the topics (practical photographs and questions or consulting professors for gathering inform 5.4. Tutorial & regular weekly seminars, ca	d histopathology studied in lectur f different topics ation. ase presentation, f	es or related topi available online raining courses &	cs; including libraries, E-learning for student's assessments) and workshops.				
	7. Student Assess	sment					
A. Student Assessment Methods . Assessment Schedule (Timing of Each Method of Assessment) C. Weighting of Each Method of Assessment	1.knointeskill2.abilinfodiag3.intebasitoptheoutAsse:Asse:Asse:Asse:Asse:MentTypWrittPractOral•	Written exar wledge & unde llectual skills and s. Practical exa ity of the candida rmation studied ir gnosis. Oral exam llectual and com ic knowledge and ics, and to help th % of achievemer comes of the cours ssment 1: 1 writte se. ssment 2: Practic ssment 3: Oral exa e of Assessment ten examination examination. Total	n to assess the acquired erstanding as well as d essential professional am to assess te for applying n the course in to assess the student munication skills regarding understanding of the course te teaching staff to evaluate nt of the intended learning se. en exam by the end of al exam by the end of course. cam, after the written exam Degree (24) (18) (18) (18) (60)				
	8. List of I	References					
A. Course Notes/handouts	1 -General path department sta 2- Lectures' Han	ology course note ff and printed mat douts	s prepared by the terial of recorded lectures.				
B. Essential Books 1- Goldblum, John R., et al. Rosai and Ackerman's Surgical Pathology E-Book. Elsevier Health Sciences (2017). 2- Kumar, V., Abbas, A. K., & Aster, J. C. Robbins basic pathology e-book. Elsevier Health Sciences (2017).							

Not applicable	
C. Recommended Text Books	 Liang Jing & David Bostwick. Essentials of anatomic pathology (2011). Diana W Molavi. The practice of surgical pathology; A beginner's guide to the diagnostic process (2008).
D. Pariadicals, wabsitas	To be determined and updated during the course
D. Periodicais, websites	1 American lournal of nathology
	1-American Journal of pathology
	2-The Journal of pathology
	3-Diagnostic Histopathology
	4-Pathology outlines
	5- <u>www.pubmed.com</u>
	6- <u>www.pathmax.com</u>

Course Specification Pathology	مسمى المقرر
Master degree of Tropical Medicine-(First part))	
ТМ200	كود المقرر

جامعة/أكاديمية :المنيا

.....كلية / معهد:الطب البشري

قسم:الباثولوجي

Contents Intended Learning Outcomes (ILOs) C. Professional & D. General & A. Knowledge & **B. Intellectual Skills** Understanding Practical skills **Transferable Skills** В Α С D Acute inflammation A1 B3 C1 D1,2 Chronic inflammation and granuloma A2 B3 C1 . C1,C2 B1, B2, B3 D3 Granuloma Α3 Bilharziasis A4 B2, B3 C1, C2 -Bacterial infection A5 C1 --C2 Cell injury B3 D2 A6 Repair A7 -**C1** -Hemodynamic disorders C1, C2 A8 B3 D4 Immunopathology A9 C2 D1 -A10 C2 Cellular adaptation --A11 B3 C1,C2 Neoplasia -Diseases of the Esophagus C2,C3,C4 A12 B1,B2,B3 D3 Pathology of the stomach A13 B1,B2,B3 C1,C3,C4 D1.2 C3,C4 Pathology of the small intestine A14 B1,B2,B3 -A15 B1,B2,B3 C1,C2,C3,C4 D1,4 Pathology of the large intestine 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 -A19 B1,B3 C1,C2,C4 Lymphoma -

The Matrix of Coverage of Course IL by Contents

М	1 Intended Learning Outcomes (ILOs)										
ethods of Teaching			C C								
	A. Knowledge & Understanding	В.	C.	D.							
& Learning		Intellectu	Professiona	General							
		al Skills	I & Practical	&							
			skills	Transfera							
				ble Skills							
	A	В	С	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/semin	A12,13,14,15,16,17,18,19	B1,2,3	C1,2,3,4	D1,2,3							
ar											
Journal club	-	-	-	-							
Thesis discussion	-	-	-	-							
Training courses &	A12,13,14,15,16,17,18,19	B1,2,3	C3,4	D3,4							
workshops											

<u>B</u>-Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

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

Methods of Assessment	Intended Learning Ou	tcomes (ILOs)		
	A. Knowledge & Understanding	В.	C.	D. General &
		Intellectual	Professional	Transferable
		Skills	& Practical	Skills
			skills	
	A	В	С	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

و همرو





Blueprint of pathology course for <u>master</u> degree (1²¹ part) Tropical Medicine (24 marks)

No.	Top ir	Contact Hours	ILOs	Weight %	Total marks
1	Acute inflammation	4	Al	8.3	2
2	Chronic inflammation and gravuloma	2	A2	4.16	1
3	Granuloma	3	A3	6.25	1.5
4	Bilharniasis	3	A4	6.25	1.5
5	Bacterial infection	3	AS	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	hmmunopathology	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	Lymphoms	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 in 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.
- 2

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 Ca+2 & 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:

Торіс:	No. of	Total no.
1. Physiology of Haematological System (Blood):	Lectures	of hours
General composition & functions of blood components.	2	2
 Clinical conditions resulting from abnormalities of blood components. 		
2. Physiology of Cardiovascular System (CVS):		
 Arterial blood pressure (APB); factors affecting & its regulation. 		
3. Physiology of Central Nervous System (CNS):		
 Physiology of Pain; definition, types, body reactions & control. 	2	2
4. Physiological basis of Metabolism:		
Body temperature regulation & disorders.		
5. Physiological basis of Endocrinal System:	2	2
• Ca ⁺² & Glucose homeostasis.		
6. Physiology of Upper Respiratory System:	2	2
Acid-base balance.		
• Central & peripheral control of respiration; Hypoxia & cyanosis.		
7. Physiology of Autonomic Nervous System:	2	2
• Distribution & functions of sympathetic and parasympathetic.	_	
• Chemical transmission in ANS.	2	2
8. Physiology of GIT System:		
 Nervous & hormonal regulation of GIT secretion and motility. 	2	2
• Different types of motility of GIT.		
• Different hormones secreted by the GIT, and its functions.	2	2
• Salivary secretion; composition, function, mechanism & its control.	2	2
 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.	10	10
• Composition and functions of exocrine pancreas.	10	10
• 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.		
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,

Merhan M. Ragy

Prof. Dr. Merhan Mamdoh Ragy

A. Matrix of Coverage of Course ILOs by Contents

Contents	İ	Intended Learning Outcomes ILOs																												
		A. Knowledge & Understanding															nding			B. Intelle tual skill		B. I intellec Gen tual Trans skills Si		D. eral sfer: kills	& able					
	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	х	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

-

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

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

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

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		Knowledge	Intellectual	Wigtht	Total	Actual
		Content	%	%	%	Mark	Mark
Physiology of Hematological System	1&2	Hours 4	70	30	16.6	2	2
(Blood): general					2010	_	_
composition & functions of blood							
components. Clinical conditions resulting							
abnormalities of blood							
components							
Physiology of cardiovascular							
System (CVS): the factors affecting and							
regulation of arterial blood pressure (ABP).	3	2	70	30	83	1	1
Physiology of Central Nervous	5	2	70	50	0.5	1	1
System (CNS): types, mechanism,							
body reactions and control							
mechanisms of Pain.							
	4&5	4	70	30	16.6	2	2
Physiological basis of Metabolism:							
regulatory mechanisms of body							
temperature & disorders.							
Physiological basis of Endocrinal							
System: mechanisms of Ca+2 &							
Glucose homeostasis.							
Physiology of Upper Respiratory System:	6	2	70	30	8	1	1
hypoxia, cyanosis and their effects on the							
body							
	7	2	70	30	8.3	1	1
Physiology of ANS System:							
Distribution & functions of							
sympathetic and							
parasympathetic. Chemical	8	10	70	30	42	5	5
transmission in ANS.							
Physiology of GIT System							
		24			100	12	12
Total							
<u>3-Medical Biochemistry course specification for master degree in Tropical Medicine ((First part)</u>

University: Minia Faculty: Medicine Department: Medical Biochemistry Last date of approval 3\2023

1. Course Information					
Academic Year/level: First	Course Title:	• Code : TM200			
Part of Master Degree	Medicine (Tropical)				
• Number of teaching hours: Lectures: 30 hours; 1 hour/week					
 2. Overall Aims of the course of the course the student must be able to: Provide the postgraduate student with the medical Knowledge and sessential for the practice of specialty and necessary to gain. To understand all molecular basics and diseases. To know different molecular techniques and their advanced applicate 4-To better understand and use the research tools including internet and different laboratory equipment. To know retrieving the literature and understanding the evidence-be medicine Maintain learning abilities necessary for continuous medical education 7-Maintain research interest and abilities. 					
3. Intended learning outcome <i>Upon completion of the course, t</i>	es of course (ILOs): The student should be able to:				
Knowledge and Understanding -A	 The student finishes the course; he will be able to achieve the following objectives: A1. Illustrate various metabolic processes of carbohydrate, lipid and prote 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 detoxi A8- Explain principles, methodologies, to	ification. ols and ethics of scientific research.			
Intellectual Skills -B	B1-Develop the skills for analysis of differ reach a final diagnosis. B2-Develop the ability to solve problems B3-Develop the ability to integrate metal	rent diseases to associated with metabolic diseases.			
Professional and Practical Skills -C	 After completing the course, the student should be able to 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	After completing the course, the student should be able to D1. Be aware of the advanced biomedical information to remain current with advances in knowledge and practice (self-learning). D2. Prepare for medical progress by having advanced medical research studies
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			4- Course Contents		
Торіс	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	 1-Lectures & discussions. 2-Assignments 3-Attending and participating in scientific conferences and workshops to acquire the general and transferable skills needed 				
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	 1- Written exam to assess the student for assimila of the knowledge includ 2-Oral exam to assess th regarding basic knowled 	ss the capability of ition and application ed in the course. e student intellectual an ge and understanding of	d communication skills f 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	Assessment 1: one written exam by the end of the course				
of Each Method of Assessment)	Assessment 2: Oral exam, after the written exam				
	Formative only assessment: log book.				
C-Weighting of Each Method of	Written examination: 12 marks				
Assessment	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, PeterA.Mayes,				
	and VictorW. Rodwell (32th edition, 2022)				
C- Recommended Text Books	a. Lubert Stryer, Biochemistry (9 th edition, 2019)				
	b. Lenninger, Biochemistry (8th edition, 2021)				
D. Poriodicale websites	C. Lippincoli, Biochemistry (7th edition, 2017)				
D-Periodicais, websites	To be determined and updated during the course work.				
	Mich - 14				
	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

1/1/2 D

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

جزء اول ماجستير الأمراض المتوطنة	مسمى المقرر
	كود المقرر

جامعة/أكاديمية : ..المنيا

كلية / معهد قسم : الكيمياء الحيويه

	Week	Intended Learning Outcomes (ILOs)					
	No.						
Contents		A. Knowledge &	в.	C.	D. General &		
(List of course topics)		Understanding	Intellectual	Professional	Transferable		
			Skills	& Practical	Skills		
				skills			
		A	В	с	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			
 Purines and pyrimidine metabolism 	4	A3 A6	B1	C1			
5. Enzymes	5	Α4	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	Α7	B1 B3				
10. Gene Therapy	10	А5	B3	C1			
11. Hemoglobin metabolism	11	A3 A6	B2	C2			

A. Matrix of Coverage of Course ILOs By Contents

Methods of Teaching	Intended Learning Outcomes (ILOs)				
& Learning	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills	
	А	В	с	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	

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

Methods of Assessment	Intended Learning Outcomes (ILOs)				
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills	
	А	В	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	

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

							Knov	wledge			Marks	Actual
	Торіс	Hours	Knowl edge %	Intellectu al %	% of topic	No of items per topic	No of Item s	Mark	No of Items	Mark		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

Blueprint of Medical Biochemistry Department

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:	Course Title:	Code: TM200			
Master's degree in Tropical Medicine	Medical Parasitology				
(I st part)					
• Number of teaching hours:					
- Lectures: 36 h	ours (1.5 hours/week)				
- Practical/clinic	cal: 24 hours (1 hours/week).				
- Total: 60 hours	3				
2. Overall Aims of the course					
	By the end of the course the student mus	st be able to:			
	By the end of the course the student sho	uld be able to have the professional			
	knowledge of the parasites affecting hum	an beings all over the world and			
	particularly in Egypt, so to be able to effic	ciently protect diagnose treat and			
	advice the parasite victims correctly	iently protect, diagnose, treat and			
	advice the parasite victims correctly				
	3. Intend	led learning outcomes of course (ILOs):			
Upon completion of the course, t	he student should be able to:				
	A. 1. Identity 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				
A. Knowledge & understanding	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, o	clinical pictures, differential diagnosis and			
	complications of common helminthes and	d protozoan diseases.			
	A. 7. List causes of some clinical pher	nomena associated with some			
	parasites				
	A. 8. List the recommended laboratory	/ tests.			
	A. 9. Outline principle of treatment and	d prevention and control of common			
	parasitic diseases				
	A. 10. Describe biology and Classify a	irthropods that are mechanical and			
	biological vectors of important human	pathogens.			
	A. 11. Describe the clinical picture of a	arthropods intestations to man as a			
	cause of allergy of disease.				
	A. 12. State and illustrate the basic princi	pies of immunity and immunopathology			
	in parasitic infection.				
B. Intellectual Skills	B. 1. Solve problems of case scenario	(for clinical problem solving)			
	B. 2. Categorize the parasites accordi	ng to the affected organs.			
	B. 3. Apply self-learning skills in data	collection and group discussion			

C. Professional and Practical Skills					
	fective and the diagnostic stages of the parasites				
	C.2. Identify some	stages of the parasites.			
	C.3. Identify some	of the medically imp	ortant intermediate h	ost	
D. General and transferable Skills	D.1. Work cohere	ently and successfu	lly as a part of a tear	m and team's work.	
	D. 2. Use the advar	nced biomedical infor	rmation to remain cur	rent with advances in	
	knowledge and pra	actice (self-learning).			
	D. 3. Play role in th	e medical progress b	y having advanced me	edical information.	
	D. 4. Be aware	about the presenta	ation skills through t	the attendance and	
	participation in sci	entific activities.			
	D. 5. Communicate ideas and argue effectively				
				4. Course Contents	
Торіс	No. of hours	Lecture	Tutorial/Practical		
		100. 01 110013	Lecture		
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 fa	ace lectures, Pre-recor	ded video lectures	
		Practical lessons			
		Self-learning activiti	ies such as use of inter	rnet and multimedia.	
6. Teaching and Learning Method	s for students with				
	limited Canacity				

Imited Capacity	
	7. Student Assessment
A. Student Assessment Methods	7. 1. Paper-based exam:
	 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 1: Final paper-based exam by the end of the
Assessment)	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	- Peters' Atlas of Tropical Medicine and
	Parasitology 7 th Edition (Laura Nabarro, Stephen
	Morris-Jones, David Moore).
	- Tropical Medicine and Parasitology 5th Edition (Wallace
	Peters, Geoffrey Pasvol).
C. Recommended Textbooks	- Manson's tropical Infectious Diseases 23th Edition (Jeremy
	Farrar, Peter J. Hotez, Thomas Junghanss, Gagandeep
	Kang, David Lalloo, Nicholas J. White).
	- Diagnostic Medical Parasitology. New York: Elsevier, 2016
	(Garcia, Lynne Shore, and David A. Bruckner).
D. Periodicals, websites	

• Course Coordinator

Professor Dr. Amany Mohamed Kamal

• Head of Department:

Professor Dr. Manal Zaki Mohamed

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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

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

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

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

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

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

Loghook		C.1, C.2, C.3	D.1, D.2, D.3, D.4,
LOG DOOK			D.5

Test blueprint for Medical Parasitology course Master's degree in Tropical Medicine (Ist part)

Торіс	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 Informa	tion					
Academic Year/level: postgraduate students	Course Title: Medical Microbiology and Code Immunology for Tropical medicine Master Code postgraduate students. Code					
- Number of tead	ching hours:					
- Lectures: Total	of 40 hours; 2 hours/week					
- Practical /clinic	al: 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: 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 host-basic 					
	5. Know the principles of biosafety measures	and aseptic precautions.				
Upon completion of	3.Inter the course, the student should be able to:	nded learning outcomes of course (ILOs):				
A-Knowledge and Understandin g	 A1Identify 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	Infections and know the different methods for infection control. 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.					

	C1 Apply profess	ional annlicatio	ns such as managing a microhiology laboratory				
	CI. Apply profess	C1. Apply professional applications such as managing a microbiology laboratory.					
C- Professiona	C2. Identify differe	C2. Identify different microbes at microbiology laboratory using basic techniques					
and Practical Skills C3. Apply standards of infection control							
	C4. Apply standar	d protocol in co	ellection of pathological samples				
	D1. Manipulat	e microbiologica	al samples and reach a microbiological diagnosis of an				
D-General	infection.						
and	D2. Write prot	ocols for identif	ication of a given microorganism.				
transferable	microorganism	i.					
SKIIIS	D4. Work in/w	ith different gro	pups.				
	D5. Manage a	microbiological	laboratory. 4.Course Contents				
				Т			
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				I			
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				1.			
				h			
Тс	nic	Lecture	Practical/Clinical	0			
	pic	hours/week	hours/week	r			
				s			
				h			
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				e			
				e			
				k			
1. Introduction a pathological s	1. Introduction and collection of 1						
2. Cleaning, ster	ilization and disinfection		1	1			
3. Antimicrobial	chemotherapy	2	1	2			
4. Bacteremia, t	oxemia and toxic shock	2		1			
5. Fever		2		1			
6. Laboratory te epidemiology	chniques used in		1	1			
7. Basic immund	blogy 1	2		1			
8. Basic immund	blogy 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	
Tot	al	40		5	4	
					5	
		Lectures	·			
	E Tooching and Learning Matheda	Practical sessi	ons			
	5. reaching and Learning Methods	Seminars				
		Serminars				
6	Teaching and Learning Methods for	Self-learning a	activities such a	as use of internet and multimedia.		
	students with limited Capacity					
7.Studer	A Student Account in the interview	End of a		A name have been the set of the s		
	A.Student Assessment Methods	s 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.A	ssessment Schedule (Timing of Each	End of course	exam (written	, oral and practical exams) Week 23		
	Method of Assessment)					
C.Weigh	nting of Each Method of Assessment	Final written E	Examination:	12 marks		
		Oral Examinat	tion: 9 marks			
		practical Exam	nination:9 marl	ks		
		Total		30 marks		

8.List of	References	
Α.	Course Notes/handouts	Department Books, and notes on Medical Microbiology and Immunology
		by microbiology department, Faculty of medicine, Minia university
В.	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

12és C

A. Matrix between ILOs and course topics

Intended Learning	Outcomes (ILOs	;)			
D. General &	С.	В.	А.	Contents	
Transferable	Professional	Intellect	Knowledge	(List of course topics)	
Skills	& Practical	ual Skills	&		
	skills		Understan		
			ding		
D	С	В	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	19. Blood-transmitted diseases		
			A6			
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 Cou	rse ILOs by Methods of T	eaching						
Methods of Teaching	Intended Learning Outcomes (ILOs)							
& Learning	A. Knowledge	B. Intellectual Skills	C. Professional &	D. General &				
	Understanding		Practical skills	Transferable				
				Skills				
	A	В	с	D				
Lecture	A1 A2 A3 A4 A5 A6							
	Α7							
Practical			C1 C2 C3 C4	D1 D2 D5				
Presentation/seminar				D3 D4				
C.Matrix of Coverage of Cou	rse ILOs by Methods of A	ssessment						
Methods of Assessment		Intended Learning	Outcomes (ILOs)					
	A. Knowledge &	B. Intellectual Skills	C. Professional &	D. General &				
	Understanding		Practical skills	Transferable				
				Skills				
	A	В	с	D				
Written exam	A1 A2CA3 A4 A5 A6	B1						
	A7							
Practical exam			C1 C2 C3 C4	D1 D2 D5				
Oral Exam				D3, D4				

Blueprint of Medical Microbiology and Immunology Exam paper for 1 st part of Master of											
	Tropical Medicine (TM200)										
			(12 m a	rks)							
(List of course topics)	HOUR S	Intend	N of		Knowledge & Understanding		Intellectu al Skills		Tot al ma rk	Actu al mark	
Contents		Knowledge & Understanding	Intellectu al Skills	m per top ic	% of topi c	No of items	mark	No of ite ms	mar k		
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 In	nformation					
Academic Year/level:1 st part f tropical Medicine	MSc Course Title: Course Specifications of Internal Medicine in Master degree in tropical medicine					
Number of teaching hours:80	hours					
- Lectures: Total of 4	10 hours					
- Practical/clinical: T	otal of 40 hours					
Overall Aims of the course To deliver an advanced knowledge of main topics of internal medicine and its subspecialties relevant to tropica nce the candidate can recognize a wide range of medical problems; and establish an advanced skill to deal safely lical emergencies in tropical medicine specialty.						
Intended learning outcomes of	of course (ILOs):					
Upon completion of the cours	e, the student should be able to:					
	A1. Recognize the basic pathology and microbiology of medical diseases.					
	A2. Identify the etiologies and risk factors of medical diseases.					
	A3. List the differential diagnosis of medical problems.					
	A4.Describe the various therapeutic models/alternatives used for medical problems. A5. Enumerate the common diagnostic and laboratory techniques necessary to					
A- Knowledge	solve medical problems.					
and Understanding	A6.Describe the mechanism of action, side effects and complications of common					
	therapeutic drugs.					
	A7. Mention the principles, ethics and legal aspects of professional practice in the					
	field of internal medicine.					
	A8. List different diagnostic alternatives that help reaching a final diagnosis.					

		B1. Interpret data acquired through history taking to reach a provisional diagnosis for medical diseases.							
B- Intelle	ctual Skills	B2. Select differer	B2. Select different diagnostic alternatives that help reach a final diagnosis.						
		B3. Make link betw	ween knowledg	e for professional pr	oblem solving.				
		B4. Analyze readir	ng of research a	nd issues related to	the <u>tropical</u> medicine.				
		C1. Take a good m	nedical history a	nd conduct a proper	general examination.				
		C2. Examine norm	al and abnorma	al physical signs by p	roper regional examination				
		of the body							
		C3. Write and eva	luate medical re	eports.					
		C4. Plan in the pat	tient's managen	nent.					
C- Is	Professional and	C5. Assess method	ds and tools in d	liagnosis and manag	ement <u>in internal medicine.</u>				
		C6. Interpret adec	quately the resu	lts of common labor	atory investigations.				
		C7. Interpret adequately X-ray, CT and ultrasonic images of common medical							
		problems.							
		C8. Evaluate adequately the patient's acute morbidity score and need for urgent							
		D1. Communicate	effectively with	n patients and their f	amilies.				
		D2. Assess himself and identify personal learning needs.							
		D3. Develop personal skills in writing a case summary and a simple essay.							
		D4. Prepare and present different topics using power point and data show.							
D-	General and	D5. Use different sources for information and knowledge continuously.							
Skills		D6. Use information technology to serve the development of professional practice							
		D7. Work in teamwork.							
		D8. Manage Scientific meetings according to the available time							
		D9 Present problematic internal medicine-cases in seminars							
		D10 Communicat	endtie <u>internur</u>						
		דט. communicat	e enectively by	an types of effective					
2.	Course Contents								
	Торіс		Lecture hours	Practical/Clinical	Total No. of hours / <u>Week</u>				

Nephrology	10	10	
urine analysis			
nephrotic syndrome			
nephretic syndrome			
chronic kidney diseases			
hypokalemia, hyperkalemia			
acidosis			
alkalosis			
Hematology: -	10	10	
 Anemias Coagulopathies Platelet dysfunction disorders Bleeding diathesis 			
Cardiovascular system:-	10	10	
• Hypertension			
Infective endocarditis			
• Ischemic heart disease			
• Congestive heart failure			
- oxygen therapy			
Endocrinology:-	10	10	
• Diabetes mellitus and its complications (acute and chronic).			
• Parathyroid gland & Calcium homeostasis.			
• Thyroid diseases.			
Hyperlipidemias.			
adrenal diseases			
• corticosteroids			
Total	40	40	80

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
Special session for training and tutorials.
- Research assignment for the students to assess the general and
skills.
- Log book to assess clinical and transferable skills, attendance to
erences and oral discussions of thesis.
 Final written and commentary exam to assess Knowledge, understanding and intellectual skills.
- Final oral exam to assess knowledge and understanding.
- Final practical exam to assess practical skills.
Assessment 1 Assignment Week: 8-16-24
Assessment 2according to department schedule.
Assessment 3 Final written exam. Week <u>24</u>
Assessment 4 Final practical exam Week: 24
Assessment 5Final oral exam Week24
Assignment and log book: 10 % including:
Vritten Exam 24
Dral Exam. 18
Practical Exam 18
Total 60

6. List of References:

А.	Course Notes/handouts	Lecture notes prepared by staff members in the department.
В.	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
С.	Recommended Text Books	- Kumar and Clarke Textbook of Medi cine; Parveen Blackwell Science; 10 th
		edition, 2020
		Methods of Clinical examination (Salah Ibrahim)
D.	Periodicals, websites	Pubmed.com
		Biomed.net.com
		Free medical journalcom
		Annals of internal medicine.com

9- Facilities required for teaching and learning:					
	- 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



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

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نموذج رقم (11) مسمى المقر

الامر اض المتوطنه	مسمى المقرر
<u>TM 200</u>	كود المقرر

جامعةالمنيا كلية لطب قسم: االباطنه العامه

A-Matrix of Coverage of Course ILOs By Contents

	Week	Intended Learning Outcomes (ILOs)				
Contents (List of course topics)		A. Knowledge & Understand	B. Intellectual Skills	C. Professional & Practical sk	D. General & Transferable S	
		A	В	C	D	
Nephrology urine analysis nephrotic syndrome nephritic syndrome chronic kidney diseases hypokalemia, ia acid base	1 to 7	1-8	1-4	1-8	1-10	
 Haematology anemias coagulation platelet dysfunction bleeding diath 	8 to 11	1-8	1-4	1-8	1-10	
Cardio vascular system: 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	21	1-8	1-4	1-8	1-10
homeostasis.					
Corticosteroids					

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

Methods of Teaching	Intended Learning Outcomes (ILOs)									
& Learning										
-	A. Knowledge &	B. Intellectual Skills	C. Professional & Practical	D. General & Transferable						
	Understanding		skills	Skills						
	A	В	C	D						
Lecture	1-8	1-4								
Clinical (Including			1-8	1-10						
grand rounds)										
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	Intended Learning Outcomes (ILOs)							
Assessment								
	A. Knowledge &	B. Intellectual	C. Professional &	D. General &				
	Understandin	Skills	Practical skills	Transferable Sk				
	A	В	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	Knowledge	Intellectual	Marks	Actual
					topic	mark	Mark		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 F	aculty: Faculty of I	Medicine				
Course specifications						
Programme(s) on which the course is given: First part MSC	in Tropical Medic	ine				
Department offering the programme: Tropical Medicine D	epartment					
Department offering the course: Department of Public Hea	alth and Communi	ty 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

b.

a. Prepare a community-oriented physician capable of anticipating and responding to community health needs according to the policies, regulations, and guidelines MOHP.

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	 Al. 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 					

	calculation			
	A4 Recognize the basics of infection control measures, and their role in disease prevention			
	A5 Describe nutritional needs to all age groups e.g. Children, pregnant and lactating mothers and old age group. A6. Identify environmental health hazards			
	B1- Criticize prevention and control programs of diseases			
B-Intellectual Skills	B2 Reframe the community toward evidence based medicine , how to protect from diseases and environmental hazards			
	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			
C-Professional and Practical Skills	C2- Use appropriate health promotion, disease prevention and control measures to identified priority communicable diseases and under specific situations			
	D1Evaluate indicators of health and disease			
D-General and transferable Skills	 D2 Identify prevalent health problems in a community, using various epidemiological strategies D3 Collect and verify data from different sources D4 Organize and manage data, including graphic and tabular presentations D5 Analyze and interpret data D6 Anticipate and participate in investigation of an epidemic/outbreak as part of a health team D7 Apply appropriate health promotion, disease prevention, and control measures D8 Apply disease prevention and control measures to identified priority communicable and non-communicable diseases D9 Participate in conducting public health surveillance. 			

3-Contents

Clinical department	Торіс	No. Of hours	
		Theoritical	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 TWELFITH EDITION, JOHN M. LAST, (EDITOR), APPLETON CENTURYCROFTS/NORWALK, CONNECTICUT.USA

6.3- Periodicals:

-American Journal of Epidemiologyy

-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 <u>department council</u>: 13/5/2013.

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

Mashin N.K.

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

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

قسم: الصحة العامة والطب الوقائي

A. Matrix of Coverage of Course ILOs By Contents

	Wee Intended Learning Outcomes (ILOs)				
	k				
Contents	No.				
(List of course topics)		A Knowledge &	B Intellectual	C Professional	D. General &
		Understanding	Skills	& Practical skills	Transferable
		U			Skills
		А	В	С	D
General Epidemiology		A1	B1		D1 to D9
- Determinants of health and					
diseases					
Drevention and control					
- Prevention and control					
 Investigations of outbreak 					
- Surveillance					
- Emerging diseases					
-Neglected tropical diseases					
Environmental health:		A6	B2	C1,C2	D1 to D9
-Environmental Health hazards.					
Water and waste management					
- Food safety.					
- Physical hazards					
- Infection control measures					
Epidemiologyof communicable diseases:		A4,A2	B1	C1,C2	
(6 per week)					
Determiniats of health and diseses			1	1	

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

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)					
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills		
	A	В	С	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

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

Торіс	Hour	% of topic	of No. of items Knowledge Intellectual	Written exam		Marks	
				Knowledge	Intellectual		
General epidemiology	2	20%	5	3	2	5	Modified
Environmental health	2	20%	5	3	2	5	marks
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	

Test blueprint community for 1st part tropical master examination

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 hou	irs:			
- Lectures: Total of 42 hou	ırs; 2 hour/week			
- Practical: Total of 21 ho	urs; 1 hour/week			
B- Professional Information				
Overall Aims of the .1 course				
2. Intended learning outcomes of course (ILOs): Upon completion of the course, the student should be able to:				
Knowledge and -A Understanding	 A.1- Identify the basic concept of lemedicine from the religious and hu A.2- Identify the very beneficial medicine; ethics related. A.3- Classify the main principles of 	earning and practicing man point of view. impressive history of medical ethics.		

	A.4- Recognize an integrated approach to deal with		
	patients, their families, community and medical staff in an		
	ethical, legal and human manner.		
	A.5- Identify rules in low and regulations to deal with		
	patients in practicing medicine.		
	Δ 6- Explain the standard and accredited methods of		
	clinical research especially on human beings		
	B 1 - Design approach to nationts in different situations:		
	critical and noncritical ones		
	P 2 Develop adequate communication skills with		
	B.2 - Develop adequate communication skins with		
	patients, community and colleagues.		
	B3- Conclude in medical researches on clear ethical basis.		
Intellectual Skills -B	B.4- Use knowledge and learn according to standard basis		
	worldwide.		
	B.5 - Apply and practice medicine according to concepts of		
	evidence-based medicine.		
	B.6- Recognize common ethical dilemma and suggest a		
	proper solution.		
	C.1- Use a high professional approach with colleagues and		
	patients.		
Drefeesional and C	C.2 - Modify steps of upgrading his/her educational,		
Professional and -C	academic and clinical carriers.		
Practical Skills	C.3- Use the standard guidelines in managing patients.		
	C.4- Identify what is called as clinical governance and		
	auditing his /her Performance.		
	D.1 - Identify how to respect his/herself and the		
	profession.		
	D.2- Develop adequate behavior and skill		
	communications with community		
General and -D	D 3. Modify life and live like others sharing social and		
transferable Skills	national affairs		
	D 4. Develop the capacity of beloing people and chargin		
	ungrading their culture and education		
	DE Identify how to participate in the national and social		
	offering and user englishing		
	attairs and responsibilities.		

2- Course Contents

ΤΟΡΙϹ	Lecture	Practical	Total
	Hours	Hours	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

	4.1 - Straight lectures; power point presentations
Teaching and Learning -4	4.2 - Practical lessons
Methods	4.3 - Brain storming with the students
	4.4 - Questions and Answers

Teaching and Learning -5 Methods to students	(Not applicable)		
with limited Capacity			
6- Student Assessment			
Student Assessment .A	TENDANCE CRITERIA: by Faculty laws (log book)		
Methods			
	ASSESSMENT TOOLS:		
	*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.		
Assessment Schedule .B	 Final Written exam week: 24-28 		
	 Oral exam week: 24-28 		
	Practical exam week: 24-28		
Weighting of .C	Final Written exam 40% (40 Marks)		
Assessment	Oral & Practical exams 60% (60 Marks)		
	• Total 100% (100 Marks)		
7- List of References			
Course Notes/bandouts A	Department book by staff members		
	Log Book.		
Essential Books (text .B	Medical Ethics Manual, 2nd Edition John R. Williams, 2009.		
books)	Medical Ethics, 2nd Edition, Michael Boylan, 2014.		
Recommended .C	Text book of medical ethics, Erich H. Loewy, 1989		
Books			
Periodicals .D	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 -8	Classrooms for theoretical lectures and tutorials		
teaching and learning			

Course Coordinators:

Prof. Dr. Morid Malak Hanna

Dr. Mennatallah Mahmoud Ahmed

Head of Department:

Fawzy

Prof. Dr. Irene Atef

Cerari

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
رأكاديمية :المنيا	جامعة/
الطب البشرى	کلية / معهد:

.....قسم:الطب الشرعي والسموم الأكلينكية

A. The Matrix of Coverage of Course IL by Contents

Contents	Intended Learning Outcomes (ILOs)			
	A. Knowledge &	B. Intellectual	C. Professional	D. General &
	Understanding	Skills	& Practical	Transferable
			skills	Skills
	Α	В	C	D
Medical	A1,3	B4	C1	D1,2
Responsibility and				
Duties of the				
physician				
Medicolegal	A1,2	B3	-	-
aspect of cloning				
Defensive	A4,5	B6	С3	D3
Medicine				
Diagnosis of death	A1,2	B2	-	-
& Death				
Certificates				
Consent in medical	A2,5	-	-	-
field				
Medical	A1,6	B5	C4	D5
malpractice				
			•	

Medicolegal	A5,6	B3	-	-
Modicologal	A1 2 2			D4
importance	A1,2,5	-	-	D4
Importance of				
Urgan				
				D1 3 3
Operative	AZ,4,5	BZ	-	D1.2,3
precautions and				
Diagnosis of death	12.4.6			
Medical syndicate	A2,4,6	-	C2	-
Professional	A1,3,4	B1	-	-
secrecy				
Surrogacy	A1,2	-	-	-
Female	A3,4	-	C1,2	D1.2
circumcision				
Physician	A1,4	B1,2	-	-
disciplinary				
proceeding				
Medicolegal	A1,6	B3,5	С3	D1,4
aspect of artificial				
insemination				
Domestic Violence	A1,5	-	-	-
Euthanasia (Mercy	A2,6	_	C4	-
death)				
Ethics in medical	A1,4	B1,2	-	-
		-		
research				
Medical reports	A,3,4	B3,6	-	-
Rules of using	A5,6	-	-	-
addictive drugs				
among physicians				
Medical	A2,5	B3,6	-	-
certificates	ŕ			

Methods of Teaching	Intended Learning Outcomes (ILOs)					
& Learning	A. Knowledge &	B. Intellectual	C. Professional	D. General		
	Understanding	Skills	& Practical skills	&		
				Transferabl		
				e Skills		
	A	В	С	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 &	-	-	-	D1,2,3,4,5		
workshops						

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

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

Methods of	Intended Learning Outcomes (ILOs)						
Assessment							
	A. Knowledge &	B. Intellectual	C. Professional &	D. General			
	Understanding	Skills	Practical skills	&			
				Transferabl			
				e Skills			
	A	В	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	Кно	wledge	Inte	llectual	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

Course Title: Tropical Medicine Code: TM 200 Academic Year/level: Postgraduate, Master degree (2nd part), Tropical. Date of specification approval: 2022/2023

• Number of teaching hours:

-Lectures / hours : 23h. Infection, 22 h hepatology 19 h GIT

-clinical: -10 h. Infection, 14 h hepatology ,11h. GIT

2. Overall Aims of the course

By the end of the course the student must be able to:

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.

3. Intended learning outcomes of course (ILOs): Upon completion of the course, the student should be able to:

Α-	A1Discuss the essential facts and principles of relevant basic sciences including normal, physiology,
Knowledge and	Pathology, Biochemistry and microbiology related to Infectious diseases& gastrointestinal tract and
Understan	hepatolobiliary systems.
ding	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
	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.
B- Intellectual Skills	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-Adopt 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.
C- Professional	Bv the end of the study of master program in hepatology, gastroenterology and infectious diseases the
and Practical	- ,
SKIIIS	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-Engage in research and conduct studies to gain a better understanding and develop new and more
	effective methods of treatment
D- General and	. By the end of the study of master program in hepatology, gastroenterology and infectious diseases
transferable Skills	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- Mange 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

*

4- Course contents

Subject	Lecturer	Practical	Total
Vaccine schedules	1 hour/ week	2 hour/ week	1
	1		1
Antimicrobial	1		1
Bacterial infection	1	1	2
Covid 19 typical presentation and complication	1		1
mycobacterial infection &non mycobacterial	1		1
infection			
Parasitic infection	2	1	3
Viral infection	3	1	4
Systemic Fungal infection	2		2
Opportunstic infection	1	1	2
Seually 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 disordes	1		1
Nosocomial infecton	1	1	2
Total	23	10	33
HEPATOLOGY			
Investigations of liver disease(1		1
liver function tests, heptic imging			
and liver biopsy,radioisotopic			
studies)			
Approach to the Patient with	1		
Abnormal Liver Enzymes		1	2
Circulatory and Vascular liver	1	1	2
diseases			2
Covid 19 in nepatic patient	1	1	2
AlcoholicLiver Diseases	1	1	2
Autoimmune Liver Diseases	2	1	5
Metabolic liver diseases	1	1	2
NASH- NAFLD	1	1	2
Drug-Induced and Toxic Liver Disease	1		
Pregnancy-Specific c Liver	1		1
Diseases.			

Liver Cirrhosis (etiology, clinical 2			2	4
picture, diagnosis and treatment				
liver cell failure	2		2	4
portal hypertension	1		1	2
Ascites	2		2	4
Primary Tumors of the Liver and	1		1	2
Intrahepatic Bile Ducts				
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 Gastrointes	stinal	1	1	2
Tract				
Lab. Imging, Endoscopical and othe	ers	2		2
Gastrointestinal complications of				
endoscopy and post ERCP				
complications				
Gastroesophageal Reflux Disease		1	1	2
Functional GIT Disorders		2		2
Esophageal Tumors		1	1	2
Peptic Ulcer Disease and its		1	1	2
Complications				
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	2	1	3
Large Intestine				
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	Assessment 1: 1 written exam by the end of course.		
(Timing of Each Method of Assessment)	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) -1				
Zakim and Boyer's Hepatology: A Textbook of Liver Disease (Seventh Edition) – 2018 -2				
Yamada's Handbook of Gastroenterology FOURTH EDITION 2020 -3				
Periodicals, W ebSites, etc -4				
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			In	tended Learning Outcomes (ILOs)
,	A. Knowledge &	B. Intellectual Skills	C. Professional &	D. General & Transferable
	Understanding		Practical skills	Skills
	A	В	С	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	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11,	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
presentation and	A4,A5,A6,A7,A8,A9			
complication				
mycobacterial	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
infection & non	A4,A5,A6,A7,A8,A9			
mycobacterial				
infection				
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	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
infection	A4,A3,A0,A7,A0,A9			
Opportunstic	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
infection	A4,A5,A6,A7,A8,A9			
Seually	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
transmitted	A4,A5,A6,A7,A8,A9			
diseases				
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	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
infections	A4,A5,A6,A7,A8,A9			
GIT infection	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
	A4,A5,A6,A7,A8,A9			
Fever of unknown	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11,	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
origin	A4,A5,A6,A7,A8,A9			
Heat disordes	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
	A4,A5,A6,A7,A8,A9		C1 C2 C2 C4 C5	
Nosocomial	,A1,A2 A3 ۵۵ ۵۵ ۵۶ ۵۵ ۵۵ ۵۵	81,82,83,84,85,86,87,88,89,810,811,	01,02,03,04,05	U1,U2,U3,U4,U5,U6,U7,U8
intecton				
Investigations of	A6,A8	82		
liver disease(liver				

function tests,				
heptic imging and				
liver				
biopsy, radioisotopi				
c studies)				
Approach to the	A6,A8	B2		
Patient with				
Abnormal Liver				
Enzymes				
Circulatory and	A1,A2 A3,	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 liver	A4,A5,A6,A7,A8,A9			
diseases				
Covid 19 in hepatic	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
patient	A4,A5,A6,A7,A8,A9			
AlcoholicLiver	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Diseases	A4,A5,A6,A7,A8,A9			
Autoimmune Liver	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Diseases	A4,A5,A6,A7,A8,A9			
Metabolic liver	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
diseases	A4,A5,A6,A7,A8,A9			
NASH- NAFLD	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
	A4,A5,A6,A7,A8,A9		01.02.02.04.05	
Drug-Induced and	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	01,02,03,04,05	D1,D2,D3,D4,D5,D6,D7,D8
Toxic Liver Disease				
Pregnancy-Specific	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
c Liver Diseases.				
Liver Cirrhosis	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
(etiology, clinical	A4,A3,A0,A7,A6,A3			
treatment				
liver cell failure	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
	A4,A5,A6,A7,A8,A9			
portal hypertension	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
	A4,A5,A6,A7,A8,A9		01.02.02.04.05	
Ascites	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Drimon, Tumors of the	A4,A3,A0,A7,A8,A3		C1 C2 C3 C4 C5	
Liver and Intrahenatic	A1,A2 A5, A4.A5.A6.A7.A8.A9	D1,D2,D3,D4,D3,D0,D7,D8,D3,D10,D11	01,02,03,04,03	01,02,03,04,03,06,07,08
Bile Ducts	, -, -, , -, -			
Jaundice and	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
cholestasis	A4,A5,A6,A7,A8,A9			
Liver Transplantation	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
	A4,A5,A6,A7,A8,A9			
Upper and lower GI	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
bleeding Vascular Lesions of the	۸1 ۸2 ۸3	B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11	C1 C2 C3 C4 C5	
Gastrointestinal Tract	A4,A5,A6,A7,A8,A9	01,02,03,04,03,00,07,00,03,010,011	01,02,03,04,03	01,02,03,04,03,00,07,08
Lab. Imging, Endoscopical	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
and others				
Gastrointestinal				
endoscopy and post ERCP				
complications				
Gastroesophageal Reflux	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Disease Functional GIT Disorders	Α4,Α5,Α6,Α7,Α8,Α9 Δ1 Δ2 Δ2	B1 B2 B3 R4 R5 R6 R7 R8 R9 R10 R11	C1.C2.C3.C4.C5	D1 D2 D3 D4 D5 D6 D7 99
. uncaonar orr Disorders	A4,A5,A6,A7,A8,A9	51,52,53,64,63,66,67,60,63,610,611		
Esophageal Tumors	A1,A2 A3,	B1,B2,B3,B4,B5,B6,B7,B8,B9,B10,B11	C1,C2,C3,C4,C5	D1,D2,D3,D4,D5,D6,D7,D8
Dentie Librar D'	A4,A5,A6,A7,A8,A9		C1 C2 C2 C4 C5	
its Complications	A1,A2 A3, A4,A5,A6,A7,A8,A9	D1,D2,D3,D4,D3,B0,B7,B8,B9,B10,B11	01,02,03,04,03	υτ,υΖ,υ3,υ4,υ5,υ6,υ7,υ8

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

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

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

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

Methods of Assessment	Intended Learning Outcomes (ILOs)							
	A. Knowledge &	B. Intellectual	C. Professional &	D. General				
	Understanding	Skills	Practical skills	&				
				Transferabl				
				e Skills				
	Α	В	С	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 Ibrahem

Head Department: Prof. Dr. Wael Abdelghany

Last update : 5/3/2023

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Blueprint Tropical medicine Master second part (Total 280 marks)

Paper 1

Subject	Lecturer 1 hour/ week	% of topic	Knowledge%	Intellctual%	mark	Acual 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	1	4.35	50	50	6.1	6
presentation and						
complication						
mycobacterial infection	1	4.35	50	50	6.1	6
&non mycobacterial						
infection						
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
Opportunstic infection	1	4.35	50	50	6.1	6
Seually transmitted	1	4.35	50	50	6.1	6
diseases						
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 disordes	1	4.35	50	50	6.1	6
Nosocomial infecton	1	4.35	50	50	6.1	6
Total	23	100%	50%	50%	140.2	140

Paper 2

Subject	Lectur 1 hou we	er ur/ ek	% of topic	Knowled	lge%	Intellct	ual%	mar	K Ac	ual mark
Investigations of liver disease (liver function tests, heptic 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	1	3.5
NASH- NAFLD		1	2.5		50		50	3.4	4	3.5
Drug-Induced and Toxic Liver Disease		1	2.5		50		50	3.4	1	3.5
Pregnancy- Specific c Liver Diseases.		1	2.5		50		50	3.4	1	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 Gastrointestin al Tract	1	2.5	50	50	3.5	3.5
Lab. Imging, Endoscopical and others Gastrointestin al complications of endoscopy and post ERCP complications	2	5.4	50	50	7.5	7.5
Gastroesophag eal 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

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