

## **Program Specification of MD degree in Tropical Medicine**

Department: Tropical Medicine Degree: MD degree in Tropical Medicine

Code: TM 100

## A. Basic Information:

1-Program title: ... MD degree in Tropical Medicine ...

2-Final award: M D degree in Tropical Medicine

**3-Programme type:** single  $\sqrt{}$  double multiple:

4-Responsible department: Tropical Medicine Department ...

## 5-Departments involved in the program

#### **Tropical Medicine Department**

- Medical Physiology
- Pathology
- Public health and preventive medicine department......
   6-Programme duration: ≥3.5 years

#### 7-Number of program courses: 5 Five compulsory courses:

- GIT, Hepaology and Infectious diseases
- Physiology
- Medical statistics and research methodology.
- Use computer in medicine
- Pathology

8-Coordinator: prof. Dr Prof Dr Hala Ibrahem

9-External evaluator: Prof Dr Maysaa Abdalla...

## 10- Internal Evaluator: Prof Dr. Yasser mahrous

## 11-Course coordinator: Prof. Dr Hala Ibrahem

## 12- Program management team:

Dr Omar Abdelazeem Dr. Alaa Mostafa Ass. Lect..Gaser Elzaeem Ass. Lec. Eman Salama

## **B- Professional information**

## 1-Programme aims:

Graduate of Doctorate Degree in Tropical Medicine., the candidate should be able to:

1- Acquire excellent level of medical knowledge and apply such knowledge in practical skills and scientific research.

2-Acquire an in-depth understanding of common areas / problems and recent advances in the field of specialty, from basic clinical care to evidence based clinical application.

3- Create solutions for health problems related to GIT and liver diseases and infectious diseases.

4-Possess excellent level of a wide range of professional skills to manage independently all liver GIT problems and Infectious diseases problems.

5- Use recent technologies in diagnosis and treatment of GIT, liver diseases and Infectious diseases.

## 1- Intended Learning Outcomes (ILOs):

## 1.1 (a) Knowledge and understanding:

By the end of the study of doctorate program In Tropical Medicine the candidate should be able to:

A1- Enumerate recent advances in the common diagnostic and laboratory techniques necessary to

establish diagnosis of hepatic and GIT diseases

A2- Describe recent advances in the various therapeutic methods/alternatives used for hepatic and GIT diseases.

A3- Explain the common diagnostic and laboratory techniques necessary to establish diagnosis of common illness.

A 4- Recognize basic principles of general and systemic pathology related to the GIT and hepatology system also infectious diseases.

A5-. Describe basics, different research methodology and ethical principles during conducting research in the field of hepatic and GIT diseases

A 6-. Demonstrate the advanced computer programs and biostatistics tests that would improve the research in the field of hepatic and GIT and infectious diseases.

A7- List Principles, methodologies, tools and ethics of scientific research.

A8-- Mention the principles and fundamentals of ethics and legal aspects of professional practice.

A9- Identify the principles of quality assurance of professional practice in the field of GIT and hepatology.

A10- Identify knowledge of established and evolving biomedical, clinical, epidemiological, and socialbehavioral sciences, as well as the application of this knowledge to the care of patients with gastrointestinal, hepatic, infectious diseases and pancreaticobiliary diseases.

A11- Discuss the mutual relation between professional practice and the environment

## 1.2 (b) Intellectual skills

By the end of the study of doctorate program In Tropical Medicine the candidate should be able to: B1-Interpret data acquired through history taking to reach a provisional diagnosis and select from different diagnostic alternatives the ones that help reaching a final diagnosis for hepatic and GIT problems

B2- Compare between different diagnostic alternatives the ones that help reaching a final diagnosis for hepatic and GIT problems

B3- Criticize research related to hepatology, infectious and Gastroenterology ......

B4-Create scientific papers around hepatology, gastroenterology and infectious diseases.

B5-Assess risk in professional practices in the field of hepatic, GIT and infectious diseases

B6- Adopt principles and fundamentals of quality assurance and formulate plans for the improvement of research and medical teaching process.

B7 -Make up different professional decisions suitable for different situations.

B8- Manage Scientific discussion based on scientific evidence and proofs.

B9- Interpret and judge data using evidence-based medicine ...

## 1.3 Skills

## 1.3.1 (c) Professional and practical skills

By the end of the study of doctorate program In Tropical Medicine the candidate should be able to:

.C1-Apply the basic and modern professional skills in hepatology and Gastroenterology and infectious diseases

C2- Conduct a good medical history, a proper general examination regional examination of all body systems

C3- Categorize a clear priority plan in the patient's management

C4 Decide the indications for consulting higher levels or reference to other disciplines

C5 - Perform Therapeutic and diagnostic upper GIT endoscopy and colonoscopy.

C6- Evaluate of medical reports.

C7-Perform acquainted with special therapeutic and interventional techniques related to the specialty.

C8-. Recommend updated information on modern diagnostic tools within the specialty and precise methods, tools and ways of professional practice

C9- Evaluate and develop of methods and tools existing in the in hepatology, gastroenterology and infectious diseases.

C 10-Prepare junior staff through continuous medical education programs

## 1.3.2 (d) General and transferable skills

By the end of the study of doctorate program In Tropical Medicine the candidate should be able to

D1 Communicate with colleagues and interact with senior researchers and students to get the best possible advice, recommendations, and opinions.

D 2-Cooperate efficiently with others to respond to reports and professional opinions.

D 3- Adopt information technology (online courses, web sites, journals, and digital libraries) to

accomplish duties in teaching and research.

D4 -Demonstrate effective undergraduate teaching.

D.5- Adjust his practice through constant self-evaluation and life-long learning.

D6 -Prepare and integrate scientific activities such as seminars, journal clubs, scientific meetings or

conferences to achieve improvement of the professional practice through continuous and self-

4

learning.

D7-Adopt different information resources (print, analog), online (electronic, digital) text, audio-video, book and journal to address practical questions for maintaining professional growth.

D 8- Work as a member in larger teams and as well as a team leader.

D 9 - Maintain competences of leading scientific meeting and obtaining effective time management skills.

## 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}.

Minia faculty of medicine has developed the academic standards (ARS) for Medical Doctorate (MD) program and was approved in faculty Council decree No.7528, in its session No.191, dated: 15-3-2010), last update: 20-2-2023 {Annex I}.

• Then Tropical Medicine Department has developed the intended learning outcomes (ILOs) for doctorate (MD) program in Tropical Medicine and the Date of program specifications first approval was by department council: 13-5-2013, last update: 6-3-2023{Annex II}.

\*\*Program External References

- No External reference (Benchmark).
- 3- program Structure and Contents

3.A. Program duration (≥3.5 years)

3 B. Program structure:

Торіс	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
First part			
Medical statistics and research methodology	30	15	45
Use of computer in medicine	20	10	30
Pathology	24	24	48

Medical Physiology	48		
Second part	·	·	
Infectious diseases	33	13	46
Hepatology Gastrointestinal	28	20	48
diseases	24	10	34

## Weight percentage (100%) of first part curriculum

• Medical statistics and research methodology: Percentage 25%

Use computer in medicine: Percentage 25 %

Pathology: Percentage 25 %

Medical Physiology: Percentage 25 %

Weight percentage (100%) of second part curriculum: Percentage 100 %

## 3.C. Levels of program in credit hours system:

Not applicable

## 3.D. Program courses (curriculum)

Total No. of hours		hours /we Practical	-	Program ILOs Covered
First part				
Medical statistics and	30	15		A5, 7
research methodology				B3,4,6
				D2,7
Use of computer in	20	10		A6
medicine				D 2,3,7
Medical Physiology	48			A3
				B 8
				D 2
Pathology	24	24		A3,4
				В 8
				C8
				D 2

Second part			
			A1,2,3,8,9,10,11
Infectious diseases.	33	13	B1,2.5.6,7,8,9
Hepatology	28	20	C1-10
Gastrointestinal disease	24	10	D1-9

## 4- program admission requirements:

1-Electronic enrolment to MD program is permitted twice/ year, in March and September.

## 2-Fees payment

• For candidates enrolled in the Ministry of Health or other agencies: 6230 EGP +

150 EGP for stamps and registration form.

• For the assistant lecturers in Minia University: 210 EGP for stamps and registration form.

3-Complying with the postgraduate regulatory rules of postgraduate studies at Minia faculty of medicine

4- Department's logbook that explains the training program, participation in various scientific activities, attending scientific conferences, and discussing university theses.

5- MBBCH degree from any Egyptian faculty of medicine or equivalent degree from medical schools abroad approved by the Ministry of Higher education.

6- Original master's degree in the subject of specialization from any universities in the Arab Republic of Egypt, or an equivalent degree from another scientific institute recognized by the university

## 5- Regulations for progression and program completion

Duration of program is  $\geq$ 3.5 years), starting from registration till acceptance of the thesis; divided to:

**<u>First Part</u>**: (≥6 months from the date of registration):

• All courses as specified in the internal by law

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

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

• For the student to pass the first part exam, a score of at least 60% in each curriculum is needed. Those who fail in one curriculum need to re-exam it only.

Second Part: (≥24months):

• Program related specialized Courses.

• At least 24 months after passing the 1st part should pass before the student can ask for examination in the 2nd part. For both parts, fulfillment of the of logbook (Attendance, effective discussion in seminars, performance in practical lab and other activities). •

Two sets of exams: first in April— second in October.

- At least 60 % of the written exam is needed to be admitted to the oral and practical exams.
- 4 times of oral and practical exams are allowed before the student re-attend the written exam.
- Fulfilment of the requirements in each course as described in the template registered in the logbook is a prerequisite for candidates to be assessed and undertake part 1 and part 2 exams: as following:
  - a) Training courses
  - b) Case presentation
  - c) Seminars
  - d) Workshops
  - e) Conference attendance
  - f) Journal club

## Requirements for enrolment into first and second parts:

• Approval of the candidate's department to enroll for the doctoral exam.

- . Approval of the other departments in which the exam will be held to enroll for the exam.
- Department's logbook that explains the training program, participation in various scientific activities, attending scientific conferences, and theses' discussions.

. • In case of work break holidays, a back to work notice should be submitted 3 months before the exam.

## Thesis/essay: (24-48 months)

- Could start after registration and should be completed, defended, and accepted after passing the second part final examination, and after passing of at least 24 months after documentation of the subject of the thesis.
- Accepting the thesis is enough to pass this part.
- Publication of 2 research papers with at least one published in international journal (listed in WOS or/and

Scopus, cite score  $\geq$  5, have ISSN) is required for thesis acceptance.

- Thesis discussion with approval is enough to pass this part.
- The maximum duration for completion and approval of thesis is 4 years. Extension for a maximum of 8 years is allowed under certain conditions but this is subjected to the approvals of the supervisors, the dean and the university president.

## • <u>6-Teaching and learning methods</u>

Teaching and learning methods:	The assessed ILOs
lectures	A.Knowledge & understanding
	B. Intellectual Skills
practical training	B. Intellectual Skills
Case presentations& case discussion	C.Professional & Practical skills
In patient round	
Seminars	B.Intellectual Skills
	D. General & Transferable Skills
-Training courses & workshops.	C. Professional & Practical skills
	D. General & Transferable Skills
-Conference attendance	C. Professional & Practical skills
	D. General & Transferable Skills
Journal club	C. Professional & Practical skills
	D. General & Transferable Skills

## 7 -Methods of student assessment:

Method of assessment	The assessed ILOs
1. Written Exams:	A- Knowledge & understanding
<ul> <li>Short assay (33.33%)</li> </ul>	B- Intellectual skills
• MCQ (33.33%)	
Problem solving (33.33%)	
B- Practical Exams:	
OSCE	
Case discussion (long and short cases) XRAY, CT, MRI, ECG (Image analysis)	C-Professional and practical skills
C-Oral Exams	A- knowledge & understanding
	B- Intellectual skills
	C- General & Transferable Skills

## 8-Weighing of assessment:

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

Course	Written marks	Oral marks	Practical marks	Total marks
Medical statistics and research methodology	50	30	20	100
Use of computer in medicine	50	30	20	100
Physiology	50	30	20	100
Pathology	40	60	-	100
Infectious diseases. Hepatology Gastrointestinal disease	300	100	200	600

## 9-Evaluation of program intended learning outcomes:

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

-Course Coordinator: 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 I: Comparison between General Academic Reference Standards (GARS) and Faculty Academic Reference Standards (ARS): (Including graduate Attributes)

برامج الد كتوراه	Faculty Doctorate (MD) Program
NAQAAE	
.1 مواصفات الخريج:	1. Graduate attributes:
خريج برنامج الدكتوراه في أي تخصص يجب أن يكون تسليحا م	Graduate of doctorate (MD) program in any
فادرا على: 1.1. اتقان أساسيات ومنهجيات البحث	specialty should be able to:
	1.1. Mastery of basic research skills and types of study design.
العلمي. 1.2. العمل المستمر على الإضافة للمعارف في	1.2. Contribute to development, application, and
مجال التخصص.	translation of new medical knowledge in his scholarly field through research.
1.3. تطبيــق المـنهج التحليلـي	1.3. use analytical and critical skills in observing,
والناقــد للمعــارف فــي مجـــال التخصــص	collecting and interpreting data.
والمجالات ذات العلاقة.	
1.4. دمــج المعـارف المتخصصــة مـع المعـارف ذات العلاقـة مسـتنبطا ومطور اللعلاقات البينية بينها.	1.4. Integrate biomedical sciences with clinical information to explore scientific basis of medical
	practice for improvement of management of
	diseases.
1.5. إظهار وعيا عميقا بالمشاكل الجارية	1.5. Demonstrate an awareness of current health
والنظريات الحديثة في مجال التخصص.	problems and recent theories in his scholarly field
1.6. تحديد المشكلات المهنية و إيجاد حلولا مبتكرة لحلها.	1.6. Identify and create solutions for occupational problems and medical malpractice conditions.
1.7. إتقان نطاقا واسعا من المهارات المهنية في مجال التخصص	1.7. perform a wide range of professional skills in his scholarly field.
}.1. التوجه نحو تطوير طرق و أدوات و أساليب جديدة مزاولة المهنية.	<ul> <li>1.8. Develop and improve new methods and approaches in the professional medical practice of the specific field.</li> </ul>
<ol> <li>.1. استخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته</li> </ol>	
مهنية	improve his professional medical practice including online medical information manage information and researches.
1.10. التواصل بفاعلية وقيادة فريق عمل في سياقات مهنية	
ختلفة.	
1.11.اتخاذ القرار في ظل المعلومات المتاحة.	1.11. Make informed decisions based on
	available data (e.g. patient information, up to date scientific evidence and clinical judgement).
1.12. توظيف الموارد المتاحة بكفاءة وتنميتها والعمل على	<b>0</b> , 1
جاد موارد جدیدة .	· ·
.1.1.الوعى بدوره في تنمية المجتمع و الحفاظ على	<ul><li>the competency to get new resources.</li><li>3 1.13. Be aware of his community needs related to</li></ul>
١١١٠ الوعي بدوره في تلميه المجلمع و الحفاظ على بيئة.	
1.14.التصرف ب ما يعكس الالتزام بالنزاهة والمصداقية	
قواعد المهنة.	reasoning, honesty, integrity, dependability, and commitment to service and health equity.

15.1الالتزام بالتنمية الذاتية المستمرة ونقل علمه و	1.15. Critically reflect on one's own performance
خبراته للأخرين.	to set learning and improving goals and sharing
	his knowledge.

2. المعايير القياسية العامة:	2. Faculty Academic Reference
NAQAAE General Academic	Standards (ARS) for MD Program
1.2. المعرفة والفهم:	2.1. Knowledge and understanding:
بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا علي الفهم والدراية بكل من:	Upon completion of the doctorate Program (MD), the graduate should have sufficient knowledge and understanding of:
1.1.2. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	2.1.1. Theories, basics and updated knowledge in his scholarly field and related basic sciences.
2.1.2. أساسيات ومنهجيات وأخلاقيات البحث العلمي وأدواته المختلفة	
3.1.2. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	medical practice.
4.1.2. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	
5.1.2. المعارف المتعلقة بآثار ممارسته المهنية على البيئة وطرق تنمية البيئة وصيانتها	2.1.5. Knowledge related to effects of professional practice on public health and methods of maintenance and system-based improvement of public health.
2.2. المهارات الذهنية:	2.2. Intellectual skills:
بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا	
على:	(MD), the graduate must be able to:
عليها والاستنباط منها	2.2.1 Analysis and evaluation of information to correlate and deduce from it.
	2.2.2. Problem solving skills based on analysis of available data for common health problems related to his scholarly field.
	2.2.3. Carry out research projects related to his scholarly field.
4.2.2. صياغة أوراق علمية	2.2.4. Write and publish scientific papers.
	2.2.5. Assess risk in professional medical practice.
6.2.2.  التخطيط لتطوير الأداء في مجال التخصص	2.2.6. Establish goals, commitments and strategies for improved productivity and performance.
7.2.2. اتخاذ القرارات المهنية في سياقات مهنية مختلفة	2.2.7. Making professional decisions in different professional contexts.
	2.2.8. Demonstrate intellectual curiosity necessary for scientific discovery and innovation through active participation in research.
	2.2.9. Using Evidence-based strategies to during discussion or teaching others.
.3.2 مهارات المهنية:	۲.3 Professional skills:
	Upon completion of the doctorate program (MD), the graduate must be able to:

	Y.3.1 Master the basic as well as modern professional practical and/or clinical skills.
2.3.2 . كتابة وتقييم التقارير المهنية	2.3.2 Write and evaluate professional reports.
2.3.3 . تقييم وتطوير الطرق والأدوات القائمة في مجال التخصص	2.3.3 Evaluate and improve the methods and tools in the specific field
4.3.2. استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية	2.3.4 use of technological means to serve Professional practice
	2.3.5 Planning for the development of professional practice and improve of the performance of others

.4.2. المهارات العامة والمنتقلة:	2.4. General and transferable skills		
بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:	Upon completion of the doctorate program (MD), the graduate must be able to:		
1.4.2. التواصل الفعال بأنواعه المختلفة	2.4.1. Communicate (in writing and orally) effectively and respectfully with peers, faculty, colleagues, and other members of the health care team, understanding the role of consultations and referrals.		
2.4.2. استخدام تكنولوجيا المعلومات ب ما يخدم تطوير الممارسة المهنية	2.4.2. Use of information technology to serve Professional Practice Development.		
3.4.2. تعليم الأخرين وتقبيم أداءهم	<ol> <li>2.4.3. Demonstrate effective teaching and evaluating others.</li> </ol>		
.4.2.4 التقييم الذاتي والتعلم المستمر .	2.4.4. Self-assessment and continuous learning		
5.4.2. استخدام المصادر المختلفة للحصول على المعلومات والمعارف.	2.4.5. use physical information resources (print, analog), online (electronic, digital,) text, audio- video, book and journal to address medical questions and knowledge to sustain professional growth		
۲,٤,٦ فر يق و قيادة فرق العمل			
٢,٤,٧ اداره اللقاء ات العلمبهة و القدر ة علي ادارة الوفت	2.4.7. Manage of scientific meetings and the ability to manage Time effectively		

## Annex II: Matrix Between Faculty Academic Reference Standards (ARS) and Program ILOs for MD in Tropical medicine

2. Faculty Academic Reference	MD program Tropical Medicine ILOs
Standards (ARS) for MD Program	
2.1. Knowledge and understanding:	2.1. Knowledge and understanding:
Upon completion of the doctorate Program (MD), the graduate should have sufficient knowledge and understanding of:	
2.1.1. Theories, basics and updated knowledge in his	A1- Enumerate recent advances in the common diagnostic and
scholarly field and related basic sciences.	laboratory techniques necessary to establish diagnosis of hepatic
	and GIT diseases.
	A2- Describe recent advances in the various therapeutic
	methods/alternatives used for hepatic and GIT diseases.
	A3- Explain the common diagnostic and laboratory techniques
	necessary to establish diagnosis of common illness.
	A 4- Recognize basic principles of general and systemic pathology
	related to the GIT and hepatology system also infectious diseases.
2.1.2. Basic, methods and ethics of medical	A5 Describe basics, different research methodology and ethical
research.	principles during conducting research in the field of hepatic and GIT
	diseases
	A 6 Demonstrate the advanced computer programs and
	biostatistics tests that would improve the research in the field of
	hepatic and GIT and infectious diseases.
	A7- List Principles, methodologies, tools, and ethics of scientific
	research.
2.1. 3. Ethical and medicolegal principles of	A8 Mention the principles and fundamentals of ethics and legal
medical practice.	aspects of professional practice.
2.1. 4. Identify Principles and fundamental of quality in	A9- Identify the principles of quality assurance of professional
professional medical practice.	practice in the field of GIT and hepatology
2.1.5. Knowledge related to effects of professional practice on public health and methods of	A10- Identify knowledge of established and evolving biomedical,
maintenance and system-based improvement of	clinical, epidemiological, and social-behavioral sciences, as well as
public health.	the application of this knowledge to the care of patients with
	gastrointestinal, hepatic, infectious diseases and pancreaticobiliary
	diseases.
	A11- Discuss the relation between professional practice and the environment
2.2. Intellectual skills:	2.2. Intellectual skills:
Upon completion of the doctorate program (MD), the graduate must be able to:	

2.2.1Analysis and evaluation of information to correlate and deduce from it.	B1-Interpret data acquired through history taking to reach a provisional diagnosis and select from different diagnostic alternatives the ones that help reaching a final diagnosis for hepatic and GIT problems
2.2.2. Problem solving skills based on analysis of available data for common health problems related to his scholarly field	B2- Compare between different diagnostic alternatives the ones that help reaching a final diagnosis for hepatic and GIT problems
2.2.3. Carryout research projects related to his scholarly field.	B3- Criticize research related to hepatology, infectious and
	oenterology
2.2.4. Write and publish scientific papers.	B4-Create scientific papers around hepatology, gastroenterology and infectious diseases.
2.2.5. Assess risk in professional medical practice.	B5-Assess risk in professional practices in the field of hepatic, GIT and infectious diseases
2.2.6. Establish goals, commitments and strategies for improved productivity and performance.	B6- Adopt principles and fundamentals of quality assurance and
	formulate plans for the improvement of research and medical
	teaching process.
2.2.7. Making professional decisions in different	B7 -Make up different professional decisions suitable for different
professional contexts.	situations
2.2.8. Demonstrate intellectual curiosity necessary for	. B8- Manage Scientific discussion based on scientific evidence and
scientific discovery and innovation through active participation in research.	proofs.
2.2.9. Using Evidence-based strategies to during discussion or teaching others.	B9- Interpret and judge data using evidence-based medicine
2.3. Professional skills:	2.3. Professional skills:
Upon completion of the doctorate program (MD), the graduate must be able to:	
2.3.1. Master the basic as well as modern professional practical and/or clinical skills.	C1-Apply the basic and modern professional skills in hepatology and
	Gastroenterology and infectious diseases
	C2- Conduct a good medical history, a proper general examination
	regional examination of all body systems
	C3- Categorize a clear priority plan in the patient's management
	C4 Decide the indications for consulting higher levels or reference to
	other disciplines
	C5 - perform Therapeutic and diagnostic upper GIT endoscopy and
	colonoscopy.
2.3.2. Write and evaluate professional reports.	C6- Evaluate of medical reports.
2.3.3. Evaluate and improve the methods and tools in the specific field.	C7-Perform acquainted with special therapeutic and interventional techniques related to the specialty
2.3.4. use of technological means to serve Professional practice.	C8-Recommend updated information on modern diagnostic tools
	within the specialty and precise methods, tool and ways of
	professional practice

2.3.5. Planning for the development of professional practice and improve of the	C9- Evaluate and develop of methods and tools existing in the		
performance of others	hepatology, gastroenterology and infectious diseases.		
	C10-Prepare junior staff through continuous medical education		
	programs		
2.4. General and transferable skills	2.4. General and transferable skills		
Upon completion of the doctorate program (MD), the graduate must be able to:			
2.4.1. Communicate (in writing and orally) effectively and respectfully with peers, faculty,	D1-Communicate with colleagues and interact with senior researchers and students to get the best possible advice, recommendations, and opinions.		
colleagues, and other members of the health care team, understanding the role of consultations and referrals.	D 2- Cooperate efficiently with others to respond to reports and professional opinions.		
2.4.2. Use of information technology to serve Professional Practice Development.	D3-Adopt information technology (online courses, web sites, journals and digital libraries) to accomplish duties in teaching and research.		
2.4.3. Demonstrate effective teaching and evaluating others.	D 4 Demonstrate effective undergraduate teaching.		
2.4.4. Self-assessment and continuous learning.	D5- Adjust his practice through constant self-evaluation and life-long learning.		
	D 6 Prepare and integrate scientific activities such as seminars, journal clubs, scientific meeting or conferences to achieve improvement of the professional practice through continuous and self-learning.		
2.4.5. use physical information resources (print, analog), online (electronic, digital,) text, audio- video, book and journal to address medical questions and knowledge to sustain professional growth.	dio- (electronic, digital) text, audio-video, book and journal to address practical questions for maintaining professional growth.		
2.4.6. Work as a member in larger teams and as well as a team leader knows how to develop "teaming strategy" to plan how people will act and work together.	D8- Work as a member in larger teams and as well as a team leader and maintain proper protocol in dealings with any conflict with and respect others' point of views.		
2.4.7. Manage of scientific meetings and the ability to manage Time effectively.	D9- Maintain competences of leading scientific meeting and obtaining effective time management skills.		

## **Annex III: Matrices**

جامعة/أكاديمية : المنيا كلية / معهد: الطب قسم: الأمراض المتوطنة

Tropical Medicine	مسمى البرنامج	
TM 100	كود البرنامج	

## 1- Matrix of Coverage of Program MD ILOs by by courses

Courses	Program Intended Learning Outcomes (ILOs)			
(List of courses in 1 <sup>st</sup> and 2 <sup>nd</sup> parts)				
	A. Knowledge &	B. Intellectual	C. Professional &	D. General &
	Understanding	Skills	Practical skills	Transferable Skills
	A	В	С	D
First part				
. Medical statistics	A5,A7	B3,4,6		D2,7
and research				
methodology				
Use of Computer in	A6			D2,3,7
Medicine				
Pathology	A3,4	B8	C8	D2
Medical Physiology	A3	B8		D2
Second part		1		1
Infection Hepatology Gastrointestinal diseases	A1,2,3,8,9,9,10,11	B1,2,5,6,7,8,9	C1,2,3,4,5,6,7,8,9,10	D1,2,3,4,5,6, 7,8,9
Thesis	A5,6,7,8,10	B3,4,5,6,9	C1,7,9	D3,7,8

	Program Intended Learning Outcomes (ILOs)				
Methods of Teaching					
& Learning					
	A. Knowledge &	B. Intellectual	C. Professional &	D. General &	
	Understanding	Skills	Practical skills	Transferable Skills	
	A	В	С	D	
Lecture	A1-11	6,7,8,9			
Practical	A1,2,8,9,11	B1,2,7,8,9	C2		
-Case					
presentation and					
case discussion					
-In patient round					
Seminars		B8,9		D6,7,8,9	
Work shops			C7,8,9	D1,2,3,5,6,7,8,9	
Conference Attendance			C8,9,10	D1,2,3,5,6,7,8,9	
Journal club			C8,9,10	D1,2,3,5,6,7,8,9	

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

3- Matrix of Coverage of Program ILOs by methods of assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	Knowledge &	Intellectual	Professional &	General & Transferable
	Understanding	Skills	Practical skills	Skills
	A	В	С	D
Written exam		B2		D5,7
Clinical&Practical exam OSCE Case discussion (long and short cases) XRAY,CT,MRI,ECG (Image analysis)		B1	C2	D5,7
Oral Exam	A1,2,3,4,5,6,7, 10			D5,7,8

Course Coordinator:

Prof Dr / Hala Ibrahem

Date 5/3/2023

Head of Department:

DR/ Wael Abdelghany

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## 1- Annex VI: Courses Specifications and Matrices

## Course specification of: "Medical Statistics and Research Methodology" In MD degree

#### University: Minia

Faculty: Medicine

Department offering the course: Public Health and Preventive Medicine

Department offering the programme: All Clinical and Academic Postgraduate MD Students

Programme(s) on which the course is given: First part MD for all postgraduates

### Academic year/ Level: First part of MD

1. Course Information			
Academic Year/level:	Course Title:	Code:	
First part MD	Medical Statistics and Research Methodology	CM 100	
Number of teaching hours:			
- Lectures: 30 hours			
- Practical/clinical: 15 hours			
- Total: 45 hours			
2. Overall Aims of the	By the end of the course the stu	Ident must be able to:	
course	<ol> <li>Gain skills necessary for proper practice in the field of Research Methods including diagnostic, problem solving and decision making skills.</li> </ol>		
	<ol> <li>Apply ethical principles of scientific research with good awareness about patient's rights.</li> </ol>		
	3. Use precisely the research methodology in researches		
	<ol> <li>Influence the students to add evidence-based medicine</li> </ol>	opt an analytical thinking for	
	<ol> <li>Enable graduate students to improve their professional wor critical interpretation of data</li> </ol>		
	<ol> <li>To use precisely computer pr Excel in data analysis</li> </ol>	ograms SPSS, Epi Info and	
3. Intended learning outcomes	s of course (ILOs): ourse, the student should be able	to:	

A. Knowledge and understanding	A.1. Define terms of research methodology.
	A.2. Describe the spectrum of research methodology.
	A.3. Explain tie strategies and design of research .
	A.4. Describe the study design, uses, and limitations.
	A.5. Explain evidence-based Medicine
	A.6. Define causation and association .
	A.7. Tell the principles and fundamentals of ethics.
	A.8. Describe the different sampling strategies
	A.9. Summarize the advantages and disadvantages of different sampling strategies
	A.10. Summarize different methods of samples size calculation
	A.11. Recognize the sources and the recent methods in data collection and analysis.
	A.12. Identify the types of variables
	A.13. Identify types of tabular and graphic presentation of data
	A.14. Describe the normal curves and its uses
	A.15. Identify the characters of normal distribution curve
	A.16. Identify measures of central tendency and measures of dispersion
	A.17. Explain regression analysis, its use and differentiate its types
	A.18. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests
	A.19. Explain the usefulness of screening tests
B. Intellectual Skills	B.I. Apply research methods to different community health problems.
	B.2. Apply appropriate research strategies for use .
	B.3. Select appropriate research methods .
	B.4. Teach and advocate appropriately in the research design.
	B.5. Describe the normal curves
	B.6. Describe and summarize data
	B.7. Select the proper test of significance for a specific data.
	B.8. Interpret selected tests of significance and the inferences obtained from such tests
C. Professional and Practical Skills	C.1. Plan a research proposal for community diagnosis.
	C.2. Design questionnaires.
	C.3. Conduct research.
	C.4. Judge association and causation.
	C.5. Criticize for bias and confounding factors
	C.6. Design data entry file

	C.7. Validate data entry	
	C.8. Manage data files	
	C.9. Construct tables and graphs	
	C.10. Calculate different samples sizes	
	C.11. Calculate measures of central tendency and measures of dispersion	
	C.12. Calculate sensitivity, specificity, and predictive values	
D. General and transferable Skills	D.I. Lead a research team to conduct a specific study .	
	D.2. Take part and work coherently with his associates to in research.	
	D.3. Write scientific papers.	
	D.4. Appraise scientific evidence	
	D.5. Analyze and interpret data	
	D.6. Use standard computer programs for statistical analysis effectively	

#### 4. Course Contents

Торіс	No. of hours	Lecture	Tutorial/ Practical
Research methods			
Introduction :			
- Introduction to research.		3	
- Terminology and Rationale		5	
- Originality			
- Study design :			
-Cross sectional study and the prevalence rate			
-Cohort study, incidence rate, relative & attributable risk		4	
-Case-control study, Odd's ratio sampling			
-Experimental study and clinical trials			
- Sources of Errors in Medical Research		3	
- Bias and confounding and its Control.		2	
- Validity and reliability - The questionnaire design		2	
- Writing the Research Paper or Manuscript		2	
- Protocol Writing		2	2
- Critic technique for the literature review		2	2
- Association and causation		1	2
- Evidence -based approach in medical practice		2	1
- Ethics of medical research		2	
Statistics			
Sampling		1	
Introduction to Sample Size Calculation		1	1
Data presentation		1	1
Tests of significance		2	
Introduction to SPSS		1	1
Proportion test			1
Chi-square test			1
Student T test, Paired T test			1
ANOVA test			1
Correlation (simple and multiple)			1
Regression			1
Screening		1	1
Total		30	15

5. Teaching and Learning Methods	Due to COVID-19 pandemic, blended learning approach was adopted that mixes virtual face-to-face interaction activities with the online learning. 60% of study method is offline and 40% of study is online         Online learning materials are available at Minia University site         • Lectures: Face to face lectures, Pre-recorded video lectures         • Practical lessons         • Assignment         • Online quizzes
6. Teaching and Learning Methods for students with limited Capacity	<ul> <li>Outstanding student rewarded certificate of appreciation due to high level of achievement</li> <li>Limited students divided into small group to make learning more effective</li> </ul>
7. Student Assessment	
D. Student Assessment Methods	<ul> <li>7.1- Research assignment: to assess general transferable skills, intellectual skills.</li> <li>7.2- Written exams: <ul> <li>Short essay: to assess knowledge.</li> <li>Commentary: to assess intellectual skills.</li> </ul> </li> <li>7.3- Practical Exams: to assess practical skills, intellectual skills.</li> <li>7.4- Oral Exams: Oral exams to assess knowledge and understanding, attitude, communication</li> <li>7.5- Structured oral exams: to assess knowledge.</li> </ul>
E. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Final written exam week: 24-28 Assessment 2: Oral exam week: 24-28 Assessment 3: Practical exam week: 24-28
F. Weighting of Each Method of Assessment	<ul> <li>Final Written Examination 50 %</li> <li>Oral Examination 30 %</li> <li>Practical Examination 20%</li> <li>Other types of assessment 0%</li> <li>Total 100%</li> </ul>
8- List of References	
A. Course Notes/handouts	<ul> <li>Department notes, lectures and handouts</li> </ul>

B. Essential Books	- The Lancet Handbook of Essential
	Concepts in Clinical Research
C. Recommended Textbooks	Research methods:
	- Introducing Research Methodology; A Beginner's Guide to Doing a Research Project
	- Understanding Clinical Research, Renato Lopes and Robert Harrington; ISBN-10: 0071746781   ISBN-13: 978-0071746786
	- Users' guides to the medical
	literature: a manual for evidence-
	based clinical practice: Guyatt, G.,
	D. Rennie, M. Meade and D. Cook
	(2002), AMA press Chicago.
	- Research Methods in Community Medicine: Surveys, Epidemiological Research, Programme Evaluation, Clinical Trials, 6th Edition Joseph Abramson, Z. H. Abramson
	<u>Computer:</u>
	<ul> <li>Discovering statistics using IBM SPSS statistics, Field, A. (2013). sage.</li> </ul>
	<ul> <li>Medical Statistics: A Guide to SPSS, Data Analysis and Critical Appraisal, Belinda Barton, Jennifer Peat - 2nd EditionEveritt, Brian S.</li> </ul>
	<ul> <li>Medical statistics from A to Z: a guide for clinicians and medical students. Cambridge University Press, 2021.</li> </ul>
	<ul> <li>Bowers, David. Medical statistics from scratch: an introduction for health professionals. John Wiley &amp; Sons, 2019.</li> </ul>
	<ul> <li>Aviva, P. (2005): Medical Statistics at a Glance, Blackwell Company, 2nd, ed., Philadelphia</li> </ul>
D. Periodicals, websites	- https://phrp.nihtraining.com/users/login.php

<ul> <li><u>http://www.jhsph.edu/</u></li> <li>Journal of Biomedical Education</li> </ul>
<ul> <li><u>https://lagunita.stanford.edu/courses/Medicine/M</u> <u>edStats-</u> <u>SP/SelfPaced/about?fbclid=IwAR3nfirLM4wnuEq</u> <u>qUjLjk8TCR7IzPdnpGqwin06L-</u> <u>GjFq32a62w3j6R5s9c</u></li> </ul>

#### • Course Coordinators:

- ➤ Coordinator:
  - 1) Assistant Professor/ Ebtesam Esmail
  - 2) Professor/ Eman Sameh

### ➤ Assistant-coordinators:

1) Ass. Lecturer/ Shaza Fadel

## • Head of Department:

Professor Dr. Nashwa Nabil Kamal

Mathin N.K.

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

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

Contents		)			
(List of course topics)	Week No.	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	We	Α	В	С	D
Introduction : - Introduction to research. - Terminology and Rationale - Originality		A.1, A.2,			
<ul> <li>Study design :</li> <li>Cross sectional study and the prevalence rate</li> <li>Cohort study, incidence rate, relative &amp; attributable risk</li> <li>Case-control study, Odd's ratio sampling</li> <li>Experimental study and clinical trials</li> </ul>		A.3, A.4,	B.l, B.2, B.3, B.4,	C.1,	
- Sources of Errors in Medical Research			В.3,	C.5	

## Matrix of Coverage of Course ILOs By Contents

Faculty of Medicine, Minia University: *Tropical Medicine Department* 

- Bias and confounding and its Control.				
- Validity and reliability				
- The questionnaire design			C.2,	
- Writing the Research Paper or Manuscript - Protocol Writing		B.3,	C.3,	D.1, D.2, D.3
- Critic technique for the literature review				
- Association and causation	A.6,		C.4,	
- Evidence -based approach in medical practice	A.5,			
- Ethics of medical research	A.7			
<u>Statistics</u>				
Sampling	A.8, A.9, A.11			D.4
Introduction to Sample Size Calculation	A.10		C.10	D.4
Data presentation	A.13, A.14	B.6	C.9	D.4
Tests of significance	A.15, A16	B.5	C.11	D.4
Introduction to SPSS	A.12	B.6	C.6, C7, C8	D.5, D.6
Proportion test	A.11	B.7, B8		D.5, D.6
Chi-square test	A.11	B.7, B8		D.5, D.6
Student T test, Paired T test	A.11	B.7, B8		D.5, D.6
ANOVA test	A.11	B.7, B8		D.5, D.6
Correlation (simple and multiple)	A.11	B.7, B8		D.5, D.6
Regression	A.17	B.7, B8		D.5, D.6
Screening	A.18, A.19	B.7, B8	C.12	D.4

## Matrix of Coverage of Course ILOs By Methods of Teaching & Learning

	Intended Learning Outcomes (ILOs)						
Methods of Teaching & Learning	A. Knowledge & Understanding	-		D. General & Transferable Skills			
	A	В	С	D			
Lecture	A.1, A.2, A.3, A.4, A.5, A.6, A.7, A.8, A.14, A.15, A.16, A.18	B.4. B.5, B.6	C.1, C.4, C.11	D.3, D.4			
Practical	A.9, A.10, A.11, A.12, A.13, A.16. A.17, A.18	B.1, B.2, B.3, B.4, B.6, B.7, B.8	C.3, C.5, C.6, C.7, C.8. C.9, C.10, C.12	D.2, D.4, D.5, D.6			
Assignment	A.11, A.13, A.18	B.7, B.8	C.2, C.6, C.8, C.9, C.10, C.12	D.1, D.2., D.4, D.5, D.6			

## Matrix of Coverage of Course ILOs Methods of Assessment

Intended Learning Outcomes (ILOs)
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	A.3, A.4, A.5, A.6, A.7, A.8, A.9, A.14, A.15, A16, A18	B.3, B.5,	C.1,	
Practical exam	A.10, A11, A.12, A13, A.15, A.16, A.17, A18	B.1, B.2, B.6, B.7, B.8	C.1, C.2, C.5, C.6, C.7,C.8, C.9, C.10, C.11, C.12	D.1, D.2, D.5, D.6

## Test blueprint for Research methodology course

Торіс	Hour	% of topic	Total No. of items	Written exam (100 marks)		Marks (percentages)	Modified marks (Percentages)
Research				Knowledge	Intellectual		
Introduction: - Introduction to research. - Terminology and Rationale - Originality	3	10%	5	4	1	7%	5%
- Study design	4	13.3%	8	3	5	17%	17%
<ul> <li>Sources of Errors in Medical Research</li> <li>Bias and confounding and its Control.</li> </ul>	3	10%	4	2	2	13%	10%
- Validity and reliability	2	6.67%	3	2	1	7%	5%
- The questionnaire design	2	6.67%	3	1	2	5%	5%
<ul> <li>Writing the Research Paper</li> <li>or Manuscript</li> <li>Protocol Writing</li> </ul>	2	6.67%	4	1	3	13%	10%
- Critic technique for the literature review	2	6.67%	2	1	1	7%	5%
- Association and causation	1	3.33%	3	2	1	7%	8%
- Evidence -based approach in medical practice	2	6.67%	1	1		3%	5%
- Ethics of medical research	2	6.67%	2	2		3%	6%
Statistics							
Sampling	1	3.33%	2	1	1	4%	4%
Introduction to Sample Size Calculation	1	3.33%	1	1		2%	2%
Data presentation	1	3.33%	3	2	1	5%	4%
Tests of significance	2	6.67%	2	1	1	8%	8%
Introduction to SPSS	1	3.33%	1	1		3%	3%
Screening	1	3.33%	2	1	1	3%	3%

Total	30	100%			100%

## Course specification of :

### "Use of Computer in Medicine" in MD degree

University: Minia

Faculty: Medicine

### Department offering the course: Public Health and Preventive Medicine

Department offering the programme: All Clinical and Academic Postgraduate MD Students

### Programme(s) on which the course is given: First part MD for all postgraduates

Academic year/ Level: First part of MD

1. Course Information						
Academic Year/level: First part MD	Course Title: Use of Computer in Medicine	Code: CM 100				
Number of teaching hours	ırs:					
- Lectures: 20 hours						
- Practical/clinical: 1	0 hours					
- Total: 30 hours						
2. Overall Aims of the course	By the end of the course the stude	nt must be able to:				
	<ol> <li>Recognize knowledge about the Medicine</li> </ol>	software and their applications in				
	2. Gain skills necessary for using a systems	and managing heath care information				
3. Intended learning outcomes o Upon completion of the cou	f course (ILOs): rse, the student should be able to:					
A. Knowledge and understanding	A.1. Define each part of computer har	dware and its function				
	A.2. Have a basic understanding of various computer applications in medicine - for instruction, information managing, and computer base medical record, etc.					
	A.3. Define telemedicine and its impo	rtance				
	A.4. Recognize importance of health i improvement of healthcare	nformation technology in				
	A.5. Describe electronic medical reco	rds and obstacles facing it				
	A.6. Identify the concept of big data a	nalysis				
B. Intellectual Skills	B.1. Criticize adoption of telemedicine					
	B.2. Discover factors constraining add	option of telemedicine				
C. Professional and Practical Skills	C.1. Design framework for understand performance	ling of health information system				
D. General and transferable	D.1. Utilize computers in conducting r	esearch				
Skills	D.2. Appraise adoption of telemedicine					
	D.3. Discover skills to carry out the pr system performance	ocess of improving health information				

4. Course Contents						
Торіс	No. of hours	Lecture	Tutorial/ Practical			
Use of Computer in Medicine						
General concepts	6	4	2			
Introduction to Microsoft PowerPoint						
Health Information Systems (HIS)	6	4	2			
Telemedicine	6	4	2			
Software Used in the Health Care	6	4	2			
Big Data Analysis in Health	6	4	2			
Total	30	20	10			
5. Teaching and Learning Methods Due to COVID-19 pandemic, blend approach was adopted that mixes virtual interaction activities with the online leal study method is offline and 40% of stud						
	Online learning materials are available at Minia University site					
	<ul> <li>Lectures: Face to face lectures, Pre-recorded video lectures</li> </ul>					
	Practical lessons					
	<ul> <li>Assignment</li> </ul>					
	Online q					
6. Teaching and Learning Methods for students with limited Capacity		Outstanding student rewarded certificate of appreciation due to high level of achievement				
	Limited studen learning more effe	ts divided into sma active	all group to make			
7. Student Assessment						
A. Student Assessment Methods		signment: to assess skills, intellectual ski				
	7.2- Written exam	ns:				
	<ul> <li>Short essay</li> </ul>	: to assess knowledg	ge.			
	Commentar	y: to assess intellect	ual skills.			
	7.3- <b>Practical Exams:</b> to assess practical skills, intellectual skills.					
		Oral exams to asso ing, attitude, commu				
	7.5- Structured o	ral exams: to asses	s knowledge.			
B. Assessment Schedule (Timing of Each	Assessment 1: Fi	nal written exam wee	ek: 24-28			
Method of Assessment)	Assessment 2: Or	al exam week: 24-28	8			

	Assessment 3: Practical exam week: 24-28
C. Weighting of Each Method of Assessment	Final Written Examination 50 %
	Oral Examination 30 %
	Practical Examination 20%
	Other types of assessment 0%
	Total 100%

## 8. List of References

A. Course Notes/handouts	Department notes, lectures and handouts
B. Essential Books	Essential Medical Statistics, Betty R. Kirkwood and J. A. Sterne (2000), 2nd edition
C. Recommended Textbooks	Data Management and Analytics for Medicine and Healthcare: Begoli, Edmon, Fusheng Wang, and Gang Luo. Springer, 2017.
D. Periodicals, websites	<ul> <li>National Institutes of Health: <u>http://www.nih.gov</u></li> <li>American Medical Informatics Association: <u>http://www.amia.org/</u></li> </ul>

## • Course Coordinators:

## ➤ Coordinator:

- 3) Assistant Professor/ Ebtesam Esmail
- 4) Professor/ Eman Sameh
- Assistant-coordinators:
  - 1) Ass. Lecturer/ Shaza Fadel

## • Head of Department:

Professor Dr. Nashwa Nabil Kamal

Marthin N.K.

Date of program specifications 1<sup>s</sup> approval by department council: 13/5/2013

		Intended Learning Outcomes (ILOs)					
Contents (List of course topics)	Week No.	A. Knowledge & Understandin g	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills		
	Wee	Α	В	С	D		
Use of Computer in Medicine							
General concepts Introduction to Microsoft PowerPoint		A.1, A.2,			D.1		
Health Information Systems (HIS)		A.4, A.5		C1	D.3		
Telemedicine		A.3	B.1, .2		D.2		
Software Used in the Health Care		A.5, A.6			D.1		
Big Data Analysis in Health		A.6					

## Matrix of Coverage of Course ILOs By Contents

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

	Intended Learning Outcomes (ILOs)						
Methods of Teaching & Learning	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills			
	Α	В	С	D			
Lecture	A.1 to A.6	B.1,	C.1				
Practical	A.1,		C.1	D.1,D3			
Assignment	A.4	B.2		D.2			

## 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	A.1, to A.6	B.1					
Practical exam	A.4			D.1			
Oral Exam	A.4, A6	B.2	C.1	D.2, D.3			

## Test blueprint for Uses of computer in Medicine course

Test blueprint for Uses of computer in	or Uses of	Hour % of topic	Total No. of	Written exam (100 marks)		Marks (Percentages)	Modified marks (Percentages)
Medicine course Topic			items	Knowledge	Knowledge Intellectual		
Use of Computer in Medicine							
General concepts Introduction to Microsoft PowerPoint	4	20%	6	4	2	30%	30%
Health Information Systems (HIS)	4	20%	4	4		20%	15%
Telemedicine	4	20%	6	2	4	25%	30%
Software Used in the Health Care	4	20%	5	4	1	20%	15%
Big Data Analysis in Health	4	20%	1	1		5%	10%
Total	20	100%	20			100%	100%

## **Course Specification of Pathology Doctorate Degree in Tropical Medicine**

- University: Minia
- Faculty: Medicine
- \* Program on which the course is given: Doctorate Degree in Tropical Medicine
- Major or minor element of program: Pathology
- Department offering the program: Tropical Department
- Department offering the course: Department of Pathology
- Academic year / Level: First part
- Date of specification approval: Last date of approval: 17/2/2023

<b>Academic Year/level:</b> Postgraduate; 1 <sup>st</sup> Part MD Tropical Medicine		<b>Course Title</b> : Course Specification of Pathology (MD Tropical Medicine)	Code:PA100
• Number of teaching Lectures: Total of 24 hours Practical: Total of 24 hour;	; 1 hour/week		
[2]- Professional Informati	on		
(I)- Overall aims of the course	<ol> <li>Appraise 8 data to reach</li> <li>Plan for the techniques a</li> <li>Demonstr reports and o</li> <li>Learn the safety and m</li> <li>Communic care profession</li> <li>Use efficiendata manage</li> <li>Manage tii</li> </ol>	eories, basics & recent advances in the field of pathol & interpret relevant basic information and correlate the a final diagnosis. e development of acquisition of skills of basic & moder s well as principals of anatomical pathology. ate competency on dealing with various biopsies ar correlate such information with the relevant provided of basics of essential techniques and follow issues re vaintenance of available resources. cate efficiently with senior staff, colleagues, lab tech ionals, students, and patients. ently the information technology including data entry ement and to achieve improvement of the professional me efficiently and learn to priorities tasks. skills of continuous & self-learning.	em with essential clinical n pathological laboratory nd anatomical pathology clinical data. lated to maintenance o nnical staff, other health v & analysis to enhance
(II)- Intended learning outo Upon completion of the co	comes of course ( ourse, the studen	(ILOs): t should be able to:	
(A)- Knowledge and understanding	diagnostic te A2: Recognis A3: Identify t A4: Describe A5: Recognis A6: Describe A7: Define m A8: Recogn pathogenesis A9: Recognis A10: Discus occupational A11: Define A12: Define pancreas	se the causes of cell injury and its consequences. the basics of general pathological features of inflamma the process of tissue healing se infectious agents and bacterial infections in details granuloma pathogenesis, types, and pathological infection ise different forms of haemodynamic disorders se the pathological aspects of neoplasms s different environmental diseases as tobacco smoking diseases, and exposure to irradiation, nutritional disc and discuss the main disease categories of the pathological and discuss the main disease categories of the heal and discuss the main disease categories of the heal disease categories of theal di	ation. logy and their underlying ng, alcohol consumption orders, and obesity. pintestinal tract. epatobiliary system and

(B)- Intellectual Skills	<ul> <li>B1: Correlate &amp; evaluate the gross and microscopic features of different disease process with available clinical data to provide a list of differential diagnosis for further advanced investigations to reach the correct diagnosis.</li> <li>B2: Evaluate and control efficiently potential risks that may arise during the professional practice in various clinical situations like handling and processing of specimens as well as during performing different essential laboratory techniques</li> </ul>
(C)- Professional and Practical Skills	<ul> <li>C1: Deal with anatomical pathology specimens in view of adopted standards as well as quality &amp; safety procedures.</li> <li>C2. Practice efficiently basic and modern laboratory techniques that include histochemical, immunohistochemical and other principal procedures such as biopsy preservation</li> <li>C3: Counsel expertise in the lab regarding the basics of essential techniques and issues related to maintain safety and available resources.</li> </ul>
(D)- General and transferable Skills	<ul> <li>D1: Demonstrate efficient communication &amp; interpersonal skills in all its forms and in different situations that may involve senior staff, colleagues, students, lab technical staff, other health care professionals, and patients</li> <li>D2: 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.</li> <li>D3: Develop skills of self-evaluation and identify personal learning needs to plan for self-development and continuous medical education</li> <li>D4: Demonstrate the skills of effective time management.</li> </ul>

#### [3]- Course Contents

ТОРІС		Contact hours	
ТОРС	Lecture	Practical	Total
(A)- General Pathology			
[1]- Routine and special techniques in surgical pathology and the related safety & quality measures.	1	1	2
[2]- Handling of anatomical pathology specimens and the related safety & quality measures.	1	1	2
[3]- Cell injury and cell death	1	1	2
[4]- Inflammation	1	1	2
[5]- Tissue Repair	1	1	2
[6]- Acute bacterial infection viral infection, mycotic diseases, parasitic infestation	1	1	2
[7]- Tuberculosis	1	1	2
[8]- Hemodynamic disorders	1	1	2
[9]- Neoplasia	1	1	2
[10]- Environmental and nutritional diseases & ionising radiation	1	-	1
(B)- Systemic Pathology			
[4]- Diseases of the gastrointestinal tract.	6	7	13
[5]- Diseases of the hepatobiliary system and pancreas	4	4	8
[6]- Diseases of the haematopoietic and lymphopoietic systems	4	4	8
Total	24	24	48

## [4]- Teaching and Learning Methods A- Straight lectures; power point presentations

#### B- Brain storming with the students

C- Questions and Answers

#### [5]- Teaching and learning methods to students with limited capacity: Not applicable

#### [6]- Student assessment

(A)- Student assessment methods	Attendance criteria: by faculty regulations (Activity logbook) Assessment Tools:	
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	<ul> <li>{I}- Final Written exam:</li> <li>A- Short essay to assess knowledge and understanding</li> <li>B- Problem solving to assess intellectual skills</li> <li>C- MCQ to assess knowledge and intellectual skills</li> <li>{II}- Oral exam; to assess knowledge, understanding, intellectual skills, attitude, and communication.</li> </ul>		
(B)- Assessment schedule	1- Final Written exam		
	2- Oral exam		
(C)- Weighting of assessment	1- Final Written exam	40% ( Marks)	
	2- Oral exam	60% ( Marks)	
	Total	100% ( Marks)	

#### [7]- List of References

(A)- Course Notes/handouts	Lectures hand outs by staff members
(B)-Essential Books (textbooks)	Robbins Basic Pathology, 10 <sup>th</sup> Edition (2018) By Kumar, Abbas, Aster.
(C)-Recommended Books	Differential Diagnosis in Surgical Pathology 2021
(D)-Periodicals	Modern Pathology Diagnostic Histopathology Cancer Annals of diagnostic pathology
(E)-Web sites	https://www.webpathology.com/index.asp https://www.pathologyoutlines.com/

[8]- Facilities required for teaching and learning

I- Classrooms for theoretical lectures and tutorials

II- Laboratories for practical

Course Coordinator: Professor Mariana Fathy Kamel Head of Department: Professor Heba Mohamed Tawfik

Buf D. 3

#### (A)- The matrix of coverage of course ILOs by contents

	Inten	ded Learning Out	comes (ILOs)	
Contents	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
<ul> <li>(A)- General pathology</li> <li>[1]- Routine and special techniques in surgical pathology and the related safety &amp; quality measures.</li> </ul>				
[2]- Handling of anatomical pathology specimens and the related safety & quality measures.				
[3]- Cell injury and cell death				
[4]- Inflammation	A1,2,3,4,5,6,7,8,9,10	B 1, 2	C 1, 2, 3	D 1, 2
[5]- Tissue Repair [6]- Acute bacterial infection viral infection,		,		,
mycotic diseases, parasitic infestation				
[7]- Tuberculosis				
[8]- Hemodynamic disorders				
[9]- Neoplasia				
[10]- Environmental and nutritional				
diseases & ionising radiation				
(B)- Systemic pathology				
[1]- Diseases of the gastrointestinal tract.	A11			
[2]- Diseases of the hepatobiliary system and pancreas	A12	B1,2	C 1, 2, 3	D 1, 2
[3]- Diseases of the haematopoietic and lymphopoietic systems	A13			

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

Mathada of tapahing	Intended learning outcomes (ILOs)				
Methods of teaching	A. Knowledge &	B. Intellectual	C. Professional &	D. General &	
& learning	Understanding	Skills	Practical skills	Transferable Skills	
Lecture	✓	✓	NA	NA	
Practical	×	√	✓	$\checkmark$	
Presentation/seminar	NA	NA	✓	$\checkmark$	
Journal club	×	√	NA	$\checkmark$	
Training courses & workshops	✓	√	~	$\checkmark$	

#### (C)- Matrix of Coverage of Course ILOs by Methods of Assessment

	Intended learning outcomes (ILOs)				
Methods of Assessment	A. Knowledge &	B. Intellectual	C. Professional &	D. General &	
	Understanding	Skills	Practical skills	Transferable Skills	
Written exam	✓	$\checkmark$	NA	NA	
Practical exam			✓	$\checkmark$	
Clinical exam	NA	NA	NA	NA	
Oral Exam	✓	$\checkmark$	✓	$\checkmark$	
Assignment	✓	$\checkmark$	NA	NA	
Structured oral exams	NA	NA	NA	NA	

# Blueprint of pathology course for <u>Doctrac</u> degree (1<sup>st</sup> p art)¶ Tropical Medicine ¶

No	Торіс	Contact Hours	ILOs	Weight %	Total Mark
(A)	- General Pathology				
[1]	- Routine and special techniques in surgical pathology and the related safety & quality measures.	1	A1	4.17	4
[2]	- Handling of anatomical pathology specimens and the related safety & quality measures.	1	A2	4.17	4
[3]	- Cell injury and cell death	1	A3	4.17	4
[4]	- Inflammation	1	A4	4.17	4
[5]	- Tissue Repair	1	A5	4.17	4
[6]	- Acute bacterial infection viral infection, mycotic diseases, parasitic infestation	1	A6	4.17	4
[7]	- Tuberculosis	1	A7	4.17	4
[8]	- Hemodynamic disorders	1	A8	4.17	4
[9]	- Neoplasia	1	A9	4.17	4
[10]	- Environmental and nutritional diseases & ionising radiation	1	A10	4.17	4
<b>(B</b> )	- Systemic Pathology				
[1]	- Diseases of the gastrointestinal tract.	6	A11	25	25
[2]	- Diseases of the hepatobiliary system and pancreas	4	A12	16.65	17.5
[3]	- Diseases of the haematopoietic and lymphopoietic systems	4	A13	16.65	17.5
	Total	24	-	100%	100

# Course Specifications in Medical physiology in MD Degree in Tropical Medicine (TM

100)

# University: Minia Faculty: Medicine

- 1. Program on which the course is given: Postgraduate study MD degree in tropical medicine
- 2. Major or minor element of program: Minor
- 3. Department offering the program: tropical medicine department
- 4. Department offering the course: Medical Physiology
- 5. Academic year / Level: first part
- 6. Date of specification approval: 6/3/2023

# A-Basic information

Lectures:	Practical:	tutorial	Total:
24			24

Title: physiology

Title: physiology Credit Hours: not applicable

Lecture: (2 hour/week) Tutorial: --- Practical: ---- B-

**Professional Information** 

1. Over all aim of the program

To prepare a tropical medicine physician oriented with the physiology of the G.I. & liver, autonomic

nervous system, renal physiology in addition, graduates should have enough knowledge about the

regulation of body fluids, electrolytes, water balance, body temperature & PH. They should have

adequate information about different types of anemia, arterial blood pressure regulation, different

types of shock, hypoxia, cyanosis pain sensation.

2. Intended Learning Outcomes of Courses (ILOs)

# A) Knowledge and understanding.

By the end of this course, students should have adequate knowledge about:

A.1 Mention the recent advances in the normal function of the gastrointestinal system.

- A.2 Explain the physiology of the autonomic nervous system
- A.3 Discuss recent advances in the normal gastrointestinal motility

A.4 Mention the recent advances in the normal function of the liver

A.5 Explain recent advances in the regulation of body temp.

A.6 Define recent advances in normal gastrointestinal secretion.

A.7 Identify recent advances in the regulation of body fluids

A.8 Enumerate recent advances in the regulation of immune reaction

A.9 Discuss the physiology of pain

A.10 Discuss the physiology of different endocrine glands, their hormones and the mechanisms of regulation of their secretion.

A.11 Discuss the physiology of upper respiratory tract , hypoxia, cyanosis.

A.12 Discuss the physiology of arterial blood pressure & its regulation, cardiac output, shock, capillary circulation oedema.

A.13 Discuss the physiology of R.B. Cs, hemoglobin& anemia.

# **B) Intellectual Skills**

by the end of the course , the student is expected to be able to :

B.1 Relate hepatic and GIT problems in the light of physiological base

B.2 Interpret problems in the body temperature in the light of physiological base

- B.3 Correlate problems in the hematopoietic system light of physiological base.
- C) Professional and Practical Skills:
- by the end of the course, the student is expected to be able to:
- C.1 Evaluate and develop methods and tools for assessment of liver and GIT physiology
- D) General and Transferable Skills :
- by the end of the course, the students are expected to be able to:
- D.1 Use different sources for information and knowledge in the field of normal function of the liver and

GIT

#### **Course content**

Торіс	Lectures/2
	hrs/w
1- Physiology of Hematological System (Blood)	4 hours
2- Physiology of Cardiovascular System (CVS)	4 hours
3- Physiology of Central Nervous System (CNS)	4 hours
4- Physiological basis of Metabolism	4 hours
5- Physiological basis of Endocrinal System	4 hours
6- Physiology of Upper Respiratory System	4 hours
7- Physiology of ANS System	4 hours
8- Physiology of GIT System	20 hours
Total hours	48

### 4. Teaching and Learning Methods

- 4.1. Lectures.
- 5. Student Assessment Methods
- 5.1. Written examination to assess knowledge & understanding.
- 5.2. Oral examination to assess understanding & attitude.
- 5.3. Observation of attendance and absenteeism.
- 6-Assessment Schedule
- Assessment 1. Written examination
- Assessment 2. Oral examination
- Assessment 3. Attendance and absenteeism
- 7-Weighting of Assessments

Final-term Examination %: 50%

Oral Examination %: 30%

44

Attendance and absenteeism %: 20%

Total 100%

8-List of References

1- course notes: lectures notes prepared by the staff members in the department

2- Gyton textbook of physiology

Head of Department: Professor Dr. Merhan Mamdoh Ragy

Date: 6 / 3 / 2023

Merhan M. Ragy

# The matrix of the ILOs of physiology course

Contents	knowledge	Intellectual skills	Practical skills	General skills
Physiology of Hematological System (Blood)	A7, A8, A13	В3	-	-
Physiology of Cardiovascular System (CVS)	A12	В3	-	
Physiology of Central Nervous System (CNS)	A9	-	-	-
Physiological basis of Metabolism	A5	B2	-	-
Physiological basis of Endocrinal System	A10	-	-	-
Physiology of Upper Respiratory System	A 11	-	-	-
Physiology of ANS System	A 2	-	-	-

# A. Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

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

		Intended Learn	ing Outcomes (ILOs	)
Methods of Assessment	Knowledge & Understanding	Intellectual Skills	Professional & Practical skills	General & Transferable Skills
	К	I		Т
Written exam	Х	х	-	Х
Oral Exam	Х	х	-	х
Log Book	Х	Х	-	Х

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

Course Coordinator,

#### Head of Department,

Dr. Eman Elbassuoni Professor of Medical Physiology Faculty of Medicine, Minia University Prof. Dr. Merhan Mamdoh Ragy Prof. & Head of Medical Physiology Department Faculty of Medicine, Minia University

Date of last update & approval by Department council: 2/2023

# Blueprint of Physiology course for Doctorate degree (1<sup>st</sup> part) Tropical Medicine (TM100)

-

Торіс	ILOs	Contact Hours	Knowledge %	Intellectual %	Weight %	Total Mark	Actual Mark
Physiology of Hematological System (Blood): general composition & functions of blood components. Clinical conditions resulting from abnormalities of blood components.		4	70	30	8.3	8.3	8
Physiology of Cardiovascular System (CVS): the factors affecting and regulation of arterial blood pressure (ABP).	2	4	70	30	8.3	8.3	8
Physiology of Central Nervous System (CNS): types, mechanism, body reactions and control mechanisms of Pain.	3	4	70	30	8.3	8.3	8
PhysiologicalbasisofMetabolism:regulatorymechanismsofbodytemperature & disorders.	4	4	70	30	8.3	8.3	8
Physiological basis of Endocrinal System: mechanisms of Ca <sup>+2</sup> & Glucose homeostasis.	5	4	70	30	8.3	8.3	8
Physiology of Upper Respiratory System: Acid-base balance. different types of hypoxia, cyanosis and their effects on the body.	6	4	70	30	8.2	8.2	8
Physiology of ANS System: Distribution & functions of sympathetic and parasympathetic. Chemical transmission in ANS.	7	4	70	30	8.3	8.3	8
Physiology of GIT System	8	20	70	30	42	42	44
Total	-	48			100%	100	100

# 5- Course Specifications of Tropical Medicine (Second part) For MD Degree in Tropical Medicine University: Minia Faculty: Medicine Department: Tropical Medicine

## **1.Course Information**

Course Title: Tropical Medicine Code: TM 100 Academic Year/level: Postgraduate, M D degree (2nd part), Tropical. Date of specification approval: 2022/2023

### Number of teaching hours:

-Lectures / hours : 33h. Infection, 28 h hepatology 24 h GIT -Clinical: -13 h. Infection, 20 h hepatology ,10h. GIT

# 2. Overall Aims of the course

Graduate of Doctorate Degree in Tropical Medicine., the candidate should be able to:.

1- Acquire excellent level of medical knowledge and apply such knowledge in practical skills and scientific research.

2-acquire an in-depth understanding of common areas / problems and recent advances in the field of specialty, from basic clinical care to evidence based clinical application.

3- Create solutions for health problems related to GIT and liver diseases and infectious diseases.

4-Possess excellent level of a wide range of professional skills to manage independently all liver GIT problems and Infectious diseases problems.

5- Use recent technologies in diagnosis and treatment of GIT, liver diseases and Infectious diseases.

A- Knowledge and Understanding       By the end of the study of doctorate program In Tropical Medicine the candidate shou able to:         A1- Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of hepatic and GIT diseases         A2- Describe recent advances in the various therapeutic methods/alternatives used for and GIT diseases.         A3- Explain the common diagnostic and laboratory techniques necessary to establish d of common illness.         A 4- Recognize basic principles of general and systemic pathology related to the GIT a hepatology system also infectious diseases.         A5 Describe basics, different research methodology and ethical principles during con research in the field of hepatic and GIT diseases         A 6 Demonstrate the advanced computer programs and biostatistics tests that would the research in the field of hepatic and GIT and infectious diseases.         A7- List Principles, methodologies, tools and ethics of scientific research.         A8 Mention the principles and fundamentals of ethics and legal aspects of professio practice.         A9- Identify the principles of quality assurance of professional practice in the field of hepatology.         A10- Identify knowledge of established and evolving biomedical, clinical, epidemiologic	hepatic liagnosis nd
Understanding       able to:         A1- Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of hepatic and GIT diseases         A2- Describe recent advances in the various therapeutic methods/alternatives used for and GIT diseases.         A3- Explain the common diagnostic and laboratory techniques necessary to establish of common illness.         A 4- Recognize basic principles of general and systemic pathology related to the GIT a hepatology system also infectious diseases.         A5 Describe basics, different research methodology and ethical principles during comresearch in the field of hepatic and GIT diseases         A 6 Demonstrate the advanced computer programs and biostatistics tests that would the research in the field of hepatic and GIT and infectious diseases.         A7- List Principles, methodologies, tools and ethics of scientific research.         A8 Mention the principles of quality assurance of professional practice in the field of G hepatology.	liagnosis nd
<ul> <li>A1- Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of hepatic and GIT diseases</li> <li>A2- Describe recent advances in the various therapeutic methods/alternatives used for and GIT diseases.</li> <li>A3- Explain the common diagnostic and laboratory techniques necessary to establish of common illness.</li> <li>A 4- Recognize basic principles of general and systemic pathology related to the GIT a hepatology system also infectious diseases.</li> <li>A5 Describe basics, different research methodology and ethical principles during comresearch in the field of hepatic and GIT diseases</li> <li>A 6 Demonstrate the advanced computer programs and biostatistics tests that would the research in the field of hepatic and GIT and infectious diseases.</li> <li>A7- List Principles, methodologies, tools and ethics of scientific research.</li> <li>A8 Mention the principles of quality assurance of professional practice in the field of G hepatology.</li> </ul>	liagnosis nd
<ul> <li>A2- Describe recent advances in the various therapeutic methods/alternatives used for and GIT diseases.</li> <li>A3- Explain the common diagnostic and laboratory techniques necessary to establish of of common illness.</li> <li>A 4- Recognize basic principles of general and systemic pathology related to the GIT a hepatology system also infectious diseases.</li> <li>A5 Describe basics, different research methodology and ethical principles during converses of the field of hepatic and GIT diseases</li> <li>A 6 Demonstrate the advanced computer programs and biostatistics tests that would the research in the field of hepatic and GIT and infectious diseases.</li> <li>A7- List Principles, methodologies, tools and ethics of scientific research.</li> <li>A8 Mention the principles and fundamentals of ethics and legal aspects of profession practice.</li> <li>A9- Identify the principles of quality assurance of professional practice in the field of Gill hepatology.</li> </ul>	liagnosis nd
<ul> <li>and GIT diseases.</li> <li>A3- Explain the common diagnostic and laboratory techniques necessary to establish of of common illness.</li> <li>A 4- Recognize basic principles of general and systemic pathology related to the GIT at hepatology system also infectious diseases.</li> <li>A5 Describe basics, different research methodology and ethical principles during commensations in the field of hepatic and GIT diseases</li> <li>A 6 Demonstrate the advanced computer programs and biostatistics tests that would the research in the field of hepatic and GIT and infectious diseases.</li> <li>A7- List Principles, methodologies, tools and ethics of scientific research.</li> <li>A8 Mention the principles and fundamentals of ethics and legal aspects of profession practice.</li> <li>A9- Identify the principles of quality assurance of professional practice in the field of Generations.</li> </ul>	liagnosis nd
<ul> <li>A3- Explain the common diagnostic and laboratory techniques necessary to establish of of common illness.</li> <li>A 4- Recognize basic principles of general and systemic pathology related to the GIT at hepatology system also infectious diseases.</li> <li>A5 Describe basics, different research methodology and ethical principles during commensations of the field of hepatic and GIT diseases</li> <li>A 6 Demonstrate the advanced computer programs and biostatistics tests that would the research in the field of hepatic and GIT and infectious diseases.</li> <li>A7- List Principles, methodologies, tools and ethics of scientific research.</li> <li>A8 Mention the principles and fundamentals of ethics and legal aspects of profession practice.</li> <li>A9- Identify the principles of quality assurance of professional practice in the field of Gill hepatology.</li> </ul>	nd
of common illness. A 4- Recognize basic principles of general and systemic pathology related to the GIT at hepatology system also infectious diseases. A5 Describe basics, different research methodology and ethical principles during com- research in the field of hepatic and GIT diseases A 6 Demonstrate the advanced computer programs and biostatistics tests that would the research in the field of hepatic and GIT and infectious diseases. A7- List Principles, methodologies, tools and ethics of scientific research. A8 Mention the principles and fundamentals of ethics and legal aspects of profession practice. A9- Identify the principles of quality assurance of professional practice in the field of G hepatology.	nd
<ul> <li>A 4- Recognize basic principles of general and systemic pathology related to the GIT a hepatology system also infectious diseases.</li> <li>A5 Describe basics, different research methodology and ethical principles during converse arch in the field of hepatic and GIT diseases</li> <li>A 6 Demonstrate the advanced computer programs and biostatistics tests that would the research in the field of hepatic and GIT and infectious diseases.</li> <li>A7- List Principles, methodologies, tools and ethics of scientific research.</li> <li>A8 Mention the principles and fundamentals of ethics and legal aspects of profession practice.</li> <li>A9- Identify the principles of quality assurance of professional practice in the field of G hepatology.</li> </ul>	
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<ul> <li>A5 Describe basics, different research methodology and ethical principles during concresearch in the field of hepatic and GIT diseases</li> <li>A 6 Demonstrate the advanced computer programs and biostatistics tests that would the research in the field of hepatic and GIT and infectious diseases.</li> <li>A7- List Principles, methodologies, tools and ethics of scientific research.</li> <li>A8 Mention the principles and fundamentals of ethics and legal aspects of profession practice.</li> <li>A9- Identify the principles of quality assurance of professional practice in the field of G hepatology.</li> </ul>	ducting
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<ul> <li>A 6 Demonstrate the advanced computer programs and biostatistics tests that would the research in the field of hepatic and GIT and infectious diseases.</li> <li>A7- List Principles, methodologies, tools and ethics of scientific research.</li> <li>A8 Mention the principles and fundamentals of ethics and legal aspects of profession practice.</li> <li>A9- Identify the principles of quality assurance of professional practice in the field of G hepatology.</li> </ul>	
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A8 Mention the principles and fundamentals of ethics and legal aspects of profession practice. A9- Identify the principles of quality assurance of professional practice in the field of G hepatology.	
practice. A9- Identify the principles of quality assurance of professional practice in the field of G hepatology.	
A9- Identify the principles of quality assurance of professional practice in the field of G hepatology.	onal
hepatology.	
	T and
A10- Identify knowledge of established and evolving biomedical, clinical, epidemiologic	
	al, and
social-behavioral sciences, as well as the application of this knowledge to the care of p	atients
with gastrointestinal, hepatic, infectious diseases and pancreaticobiliary diseases.	
A11- Discuss the mutual relation between professional practice and the environment	
By the end of the study of doctorate program In Tropical Medicine the candidate shoul	d be able
to:	
B- Intellectual Skills B1-Interpret data acquired through history taking to reach a provisional diagnosis and se	ect from
different diagnostic alternatives the ones that help reaching a final diagnosis for hepatic	
problems	and GH

	B2- Compare between different diagnostic alternatives the ones that help reaching a final
	diagnosis for hepatic and GIT problems
	B3- Criticize research related to hepatology, infectious and Gastroenterology
	B4-Create scientific papers around hepatology, gastroenterology and infectious diseases.
	B5-Assess risk in professional practices in the field of hepatic,GIT and infectious diseases
	B6- Appraise principles and fundamentals of quality assurance and formulate plans for the
	improvement of research and medical teaching process.
	B7 -Decide different professional decisions suitable for different situations.
	B8- Manage Scientific discussion based on scientific evidence and proofs.
	.B9- Interpret and judge data using evidence-based medicine
C- Professional and	By the end of the study of doctorate program In Tropical Medicine the candidate should be able
Practical Skills	to:
	.C1-Apply the basic and modern professional skills in hepatology and Gastroenterology and
	infectious diseases
	C2- Conduct a good medical history, a proper general examination regional examination of all
	body systems
	C3- Categorize a clear priority plan in the patient's management
	C4 Recognize the indications for consulting higher levels or reference to other disciplines
	C5 - Perform Therapeutic and diagnostic upper GIT endoscopy and colonoscopy.
	C6- Evaluate of medical reports.
	C7-Perform acquainted with special therapeutic and interventional techniques related to the
	specialty.
	C8 Recommend updated information on modern diagnostic tools within the specialty and precise
	methods, tools and ways of professional practice
	C9- Evaluate and develop of methods and tools existing in the in hepatology, gastroenterology
	and infectious diseases.
	C 10-Prepare junior staff through continuous medical education programs
D- General and	. By the end of the study of doctorate program In Tropical Medicine the candidate should be
transferable Skills	able to

D1 Communicate with colleagues and interact with senior researchers and students to get the
best possible advice, recommendations, and opinions.
D 2-Cooperate efficiently with others to respond to reports and professional opinions.
D 3- Adopt information technology (online courses, web sites, journals, and digital libraries) to
accomplish duties in teaching and research.
D4 -Demonstrate effective undergraduate teaching.
D.5- Adjust his practice through constant self-evaluation and life-long learning.
D6 -Prepare and integrate scientific activities such as seminars, journal clubs, scientific
meetings or conferences to achieve improvement of the professional practice through
continuous and self-learning
D7-Adopt different information resources (print, analog), online (electronic, digital) text, audio-
video, book and journal to address practical questions for maintaining professional growth.
D 8- Work as a member in larger teams and as well as a team leader.
D 9 - Maintain competences of leading scientific meeting and obtaining effective time
management skills.

### **4-Course contents**

Subject	Lecture	Practical	Total
	hour/ week		
INFECTION			
Diagnosis of infectious diseases (clinical	1		1
microbiology, immunodiagnosis, molecular			
techniques.			
Emerging and re-emerging infections	1		1
Vaccine schedules	1		1
Anti microbial therapy	1		1
Bacterial infection	3	1	4
Sepsis	1	1	2
mycobacterial infection &non mycobacterial	1	1	2
infection			
Parasitic infection	1	1	2

Viral infection	3	1	4
Systemic Fungal infection	1	1	2
Opportunstic infection	1	1	2
	1	1	2
Seually transmitted diseases	-	4	•
Protozoal infection	1	1	2
<u>CNS infections</u>	2	1	3
Respiratory infections	2	1	3
GIT infection	3	1	4
Fever of unknown origin	2	1	3
Heat disordes	1		1
Zoonotic infections	1		1
Methicillin-resistant Staphylococcus aureus	1		1
(MRSA) colonization			
Nosocomial infecton	2	1	3
Covid 19 typical and atypical presentation	2		2
and complication			
Total	33	13	46
HEPATOLOGY			
AlcoholicLiver Diseases	1	1	1
Acute Liver Failure	1	1	1
Immune mediated liver diseases	2	1	1
Covid 19 in hepatic patient	1	1	
Metabolic liver diseases	1	1	1
NASH- NAFLD	1	1	1
Drug-Induced and Toxic Liver Disease	1	1	1
liver disorders lin children	1	1	1
Pregnancy-Specific c Liver Diseases.	1	1	1
Liver Cirrhosis (etiology, clinical picture,	2	2	1
diagnosis and treatment	1	1	1
portal hypertension ascites	1 2	2	1
Primary Tumors of the Liver and Intrahepatic Bile	1	2	1
Ducts			
Jaundice and cholestasis	2	1	2
Liver Transplantation	1		1
Biliary Infections	1	1	2
Total	28	20	48
GIT			
Gastro intestinal diseases			
Nutrition in Gastroenterology	١		
Investigations of GIT	2	2	4
Esophageal diseases		2	8
Functional disorders		2	U
Esophageal Infection			
Esophageal Motility disorders			

GERD	6			]	
Esophageal Tumors	0				
Vascular diseases					
Gastric diseases	4	2	6		
Peptic Ulcer Disease	4	2	0		
Gastric motility disorders					
Gastric tumors					
Vascular diseases					
Pancrease	4	2	6		
Pancreatitis	· · ·	2	0		
Pancreatic Cancer					
Pancreatic Endocrine Tumors					
Small and Large Intestine	6	2	8		
Functional disorders	Ŭ	2	Ŭ		
Malabsorption					
Inflammatory Intestinal diseases					
Diverticular Disease					
Colonic Polyps and Polyposis Syndromes					
Benign and malignant Neoplasms Vascular					
diseases					
GIT manifestation of Covid 19	<u>۱</u>				
Total	24 10				
5-Teaching and Learning Methods					
1- Lectures					
2-practical training (Case presentations &	case discussion, In	patient round)			
3-Seminars					
4-Training courses & workshops.					
5-Conference attendance					
6-Journal club					
7-Student Assessment Methods	Assessme	ent 1: Writter	n exams: MCQ	, case scenario,	
	short essa	y and Commer	ntary:		
		nent 2: Clinica		CE, Case	
		long and short ent 3: Oral ex		written exam	
Assessment Schedule (Timing of Each					
Method of Assessment)		Exam are set twice a year April and September			
Weighting of Each Method of Assessment		Weighting of Assessments			
	Written exams :300(50%) Clinical Exams: 200 (33.3%)				
		Clinical Exams: 200 (33.3%) Oral exam : 100(16.6%)			
8-List of References		1- course notes			
				ging Infectious	
		3-Mandell, Douglas, and Bennett's:Infectious Disease ESSENTIALS (2017).			
		RLOCK'S DISE	EASES OF TH	E LIVER AND	
	BILIA	ARY SYSTEM	(2018)		
		n and Boyer's			
		Disease (Seve ada's Handboo			
				Sibiogy	
	FOURTH EDITION 2020				

	.7-Periodicals, Web Sites, etc
	http://www.ncbi.nlm.gov.
	http://www.emedicine
	http://Freemedicaljournals.com
	For practical
	-BAT E S' Pocket Guide to Physical Examination AND
	History Taking-2017.
Feaching and Learning Methods	for students with limited Capacity
5 6	

Not applicable

Head of Department:: Prof Dr / Wael Abdelghany

e se se en fin -----

Date: 5/3/2023 Course coordinator: Prof.Dr. Hala Ibrahem

جامعة/أكاديمية المنيا.....

MD degree of Tropical Medicine	مسمى المقرر
TM 100	كود المقرر

كلية / معهد: الطب البشرى....

قسم: .. الأمراض المتوطنة

# 1-Matrix of Coverage of Course ILOs By Contents

Subjects	Intended Learning Out			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	В	С	D
Diagnosis of infectious diseases (clinical, microbiology, immunodiagnosis	A1,A3	B2,B4,B5,B7,B9	C1.C8,C10	
Emerging and re- emerging infections	A1,A2 A,3, ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C10	
Vaccine schedules	A2	B5 B7	C1,C7,C10	
Anti microbial therapy	A2			
Bacterial infection	A1,A2 A,3, ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Sepsis	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
mycobacterial infection &non mycobacterial infection	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Parasitic infection	A1,A2 A,3, , ,A8,A9,A1O,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Viral infection	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Systemic Fungal infection	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Opportunstic infection	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Sexually transmitted diseases	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Protozoal infection	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
CNS infections	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Respiratory infections	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
GIT infection	A1,A2 A,3, , ,A8,A9,A1O,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Fever of unknown origin	A1,A2 A,3, , ,A8,A9,A1O,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Heat disordes	A1,A2 A,3, , ,A8,A9,A1O,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Zoonotic infections	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Methicillin-resistant Staphylococcus aureus	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
(MRSA) colonization				
Nosocomial infection	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Covid 19 typical and atypical presentation and complication	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4.,C6,C7,C8,C9, C10	D1,D2,D3,D5,D6,D7,D8,D9
Investigations of liver disease( liver function tests, heptic imging and	A1	B2		

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liver biopsy,radioisotopic				
studies)				
Approach to the Patient with Abnormal Liver Enzymes	A1	B1,B2		
Viral Infections by	A1,A2 A,3, , ,A8,A9,A1O,	B2,B4,B5,B7,B9	C1,C2,C3,C4,C5	D1,D2,D3,D5,D6,D7,D8,D9
Hepatotropic and	A11			
Nonhepatotropic				
Viruses				
Non viral liver infection	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
Hepatobiliary	A1,A2 A,3, , ,A8,A9,A1O,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
Diseases in HIV-				
Infected Patients				
AlcoholicLiver Diseases	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
Acute Liver Failure	A1,A2 A,3, , ,A8,A9,A1O,A11 A1,A2 A,3, , ,A8,A9,A1O,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10 C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9 D1,D2,D3,D5,D6,D7,D8,D9
diseases		B2,B4,B5,B7,B9		
Covid 19 in hepatic patient	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
Metabolic liver diseases	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
NASH- NAFLD	A1,A2 A,3, , ,A8,A9,A10,A11 A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9 B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
Drug-Induced and Toxic Liver Disease liver disorders lin	A1,A2 A,3, , ,A8,A9,A10,A11 A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9 B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10 C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9 D1,D2,D3,D5,D6,D7,D8,D9
children Pregnancy-Specific c	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9 B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10 C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
Liver Diseases. Liver Cirrhosis (etiology,	A1,A2 A,3, , ,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
clinical picture, diagnosis and treatment		D2,04,00,07,00	01,02,03,04,00,01,00,03,010	01,02,03,03,00,01,00,03
portal hypertension	A1,A2 A,3,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
ascites Primary Tumors of the	A1,A2 A,3A8,A9,A1O,A11 A1,A2 A,3,A8,A9,A1O,A11	B2,B4,B5,B7,B9 B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10 C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9 D1,D2,D3,D5,D6,D7,D8,D9
Liver and Intrahepatic Bile Ducts	AT,AZ A,0,A0,A0,A10,A11	02,04,00,07,00	01,02,03,04,00,07,00,03,010	01,02,03,03,00,01,00,03
Jaundice and	A1,A2 A,3.A8,A9,A1O,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
cholestasis				
Liver Transplantation	A1,A2 A,3,A8,A9,A10,A11	B5,B6,B7,B8,B9	C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
Biliary Infections Nutrition in	A1,A2 A,3,A8,A9,A10,A11	B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9 D1,D2,D3,D5,D6,D7,D8,D9
Gastroenterology	A1, A8,A9,A10,A11	B2,B4,B5,B7,B9	C 1, C 2, C 3, C 4,C6, C7,C8,C9,C10	01,02,03,03,06,07,06,09
Investigations of GIT	A1,A3	B 2, B 5		D1,D2,D3,D5,D6,D7,D8,D9
Esophageal diseases	A1,A2 A,3,A8,A9,A1O,A11			D1,D2,D3,D5,D6,D7,D8,D9
Functional disorders		B2,B4,B5,B7,B9	C 1, C 2, C 3, C 4,C5 C6, C7,C8,C9,C10	
Esophageal Infection				
Esophageal Motility				
disorders				
GERD				
Esophageal Tumors				
Vascular diseases				
Gastric diseases	A1,A2 A,3,A8,A9,A10,A11	B2,B4,B5,B7,B9	C 1, C 2, C 3, C 4,C5 C6,	D1,D2,D3,D5,D6,D7,D8,D9
Peptic Ulcer Disease	, , , , , <del>,</del> ,	, , , , , ,	C7,C8,C9,C10	, , , <u>, , , , , , , , , , , , , , , , </u>
Gastric motility				
disorders				
Gastric tumors Vascular diseases				

Pancreatitis				
Pancreatic Cancer				
Pancreatic Endocrine Tumors				
Small and Large	A1,A2 A,3,A8,A9,A1O,A11	B2,B4,B5,B7,B9	C 1, C 2, C 3, C 4,C5 C6,	D1,D2,D3,D5,D6,D7,D8,D9
Intestine			C7,C8,C9,C10	
Functional disorders				
Malabsorption				
Inflammatory Intestinal				
diseases				
Diverticular Disease				
Colonic Polyps and				
Polyposis Syndromes				
Benign and malignant Neoplasms Vascular diseases				
GIT manifestation of Covid 19	A1,A2 A,3,A8,A9,A1O,A11	B2,B4,B5,B7,B9	C 1, C 2, C 3, C 4,C5 C6, C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9

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

58		

guid	Intended Learning Outcomes (ILOs)						
eac ing	A. Knowledge &	B. Intellectual	C. Professional	D. General &			
ods of Tea & Learning	Understanding	Skills	& Practical	Transferable			
Methods of Teaching & Learning			skills	Skills			
Met	A	В	С	D			
Lecture	1,2,3,10	2	-	-			
practical training (Case	3	1,2	C1,2,3,4	-			
presentations &case							
discussion, In patient							
round)							
seminar	1,2	8,9	8,10	1,2,3,4,6,7,8,9			
Training courses &		-	1,5,7,8,9,10	1,2,3,8			
workshops.							
Conference attendance	-	8,9	8,9,10	1,2,3,8			
Journal club	5,7	3,8,9	C1,2,3,4,5	1,2,3,4,7,8,9			

Matrix of Coverage of Program ILOs by methods of assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)						
	Knowledge & Understanding	Intellectual Skills	Professional & Practical skills	General & Transferable Skills			
	A	В	с	D			
Written exam	1,2,3,10	1,2					
Clinical&Practical exam		1,2,7,9	2,3				
Oral Exam	A1,2,3,10			3,5,8			

# Blueprint Tropical medicine MD second part (300 marks)

# Paper 1&2&3

Subject	Hours	Knowledge	Intellectual	rks	Actual
		%	%		Marks
Infectious diseases					
Diagnosis of	1	75	25	3.75	4
infectious diseases					
Emerging and re-	1	75	25	3.75	4
emerging infections					
Vaccine schedules	1	75	25	3.75	4
Anti microbial	1	75	25	3.75	4
therapy					
Bacterial infection	3	75	25	11.25	10
Sepsis	1	75	25	3.75	4
mycobacterial	1	75	25	3.75	4
infection &non					
mycobacterial					
infection					
Parasitic infection	1	75	25	3.75	4
Viral infection	3	75	25	11.25	10
Systemic Fungal	1	75	25	3.75	4
infection					
Opportunstic	1	75	25	3.75	4
infection					
Seually transmitted	1	75	25	3.75	4
diseases					
Protozoal infection	1	75	25	3.75	4
<u>CNS infections</u>	2	75	25	7.5	8
<u>Respiratory</u>	2	75	25	7.5	8
infections					
GIT infection	3	75	25	11.25	10
<u>Fever of unknown</u>	2	75	25	7.5	7
origin					
Heat disordes	1	75	25	3.75	4

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Zoonotic infections	1	75	25	3.75	4
Methicillin-resistant	1	75	25	3.75	4
Staphylococcus					
aureus (MRSA)					
colonization					
Nosocomial infecton	2	75	25	7.5	7
Covid 19 typical and	1	75	25	3.75	4
atypical presentation					-
and complication					
HEPATOLOGY &GIT					
Alcoholic Liver	1	75	25	3.75	4
		15	25	3.73	4
Diseases		75	05	0.75	
Acute Liver Failure	1	75	25	3.75	4
<ul> <li>Immune mediated</li> </ul>	2	75	25	7.5	7
liver diseases					
<ul> <li>Metabolic liver</li> </ul>	2	75	25	7.5	7
diseases					
NASH- NAFLD	1	75	25	3.75	4
<ul> <li>Drug-Induced and</li> </ul>	1	75	25	3.75	4
Toxic Liver Disease					
<ul> <li>liver disorders In</li> </ul>	2	75	25	7.5	7
children					
Pregnancy-Specific c	2	75	25	7.5	7
Liver Diseases.					
<ul> <li>Liver Cirrhosis</li> </ul>	2	75	25	7.5	7
(etiology, clinical					
picture, diagnosis					
and treatment					
<ul> <li>portal hypertension</li> </ul>	1	75	25	3.75	4
<ul> <li>ascites</li> </ul>	2	75	25	7.5	7
Primary Tumors of	1	75	25	3.75	4
the Liver and					
Intrahepatic Bile					
Ducts					
Jaundice and	2	75	25	7.5	8
	<b>∠</b>	15	23	7.5	o
cholestasis					

<ul> <li>Liver Transplantation</li> </ul>	2	75	25	7.5	8
<ul> <li>Biliary Infections</li> </ul>	1	75	25	3.75	4
<ul> <li>Covid 19 in hepatic</li> </ul>	1	75	25	3.75	4
patient					
Nutrition in	١	75	25	3.75	4
Gastroenterology					
Investigations of GIT	2	75	25	7,5	7.5
Esophageal diseases	6	75	25	22.5	22.5
Functional disorders					
Esophageal Infection					
Esophageal Motility					
disorders					
• GERD					
Esophageal Tumors					
Vascular diseases					
Gastric diseases	4	75	25	15	15
Peptic Ulcer Disease					
Gastric motility					
disorders					
Gastric tumors					
Vascular diseases					
Pancreas	4	75	۲0	15	15
Pancreatitis					
Pancreatic Cancer					
Pancreatic Endocrine					
Tumors					
Small and Large Intestine	6	75	25	22.5	22.5
Functional disorders					
Malabsorption					
Inflammatory					
Intestinal diseases					
Diverticular Disease					
Colonic Polyps and					
Polyposis					
Syndromes					

Benign and					
malignant					
Neoplasms Vascular					
diseases					
GIT manifestation of Covid	١	75	25	3.75	3.5
19					
Total	80			300	300

Head of Department :: Prof Dr / Wael Abdelghany

Date: 5/3/2023 Course coordinator: Prof.Dr. Hala Ibrahem

# Matrix of Coverage of Program ILOs by Methods of Teaching & Learning

Methods of teaching		Intended Learning Outcomes (ILOs)					
& Learning							
	Kowledge&understanding	Intellectual Skills	Professional & practical skills	General & transferable Skills			
	A	В	С	D			
Lecture	A1-9	B1-B11					
Practical			C1,C2,C3	D1,D2,D3,D4,D5,D6, D7,D8			
Presentation/seminar Journal club	A1-A2-A3-A4-A5-A6-A7- A8-A9	B1,B2,B3,B4,B5,B6, B7,B8, B9	C1,C2,C3	D1,D2,D3,D4,D5,D6, D7,D8			
Thesis discussion	A5,A6,A7,A8,A9	B3,B4,B9	-	D3,D7,D8			

#### Matrix of Coverage of Program ILOs by methods of assessment

Methods of	Intended Learning Outcomes (ILOs)
Assessment	

	Knowledge &	Intellectual Skills	Professional & Practical	General & Transferable Skills
	Understanding	В	skills	D
	A		с	
Written exam	A1,-9	B1,B2,B7		
Clinical& Practical exam			C1,C2,C3	
Oral Exam	A1,A2, A3,A4,A5, A6,A7,A8,A8, A10	B1,B2,B7		
LogbooK	A1,A2, A3,A4,A5, a6,A7,A8,A8, A10	B1,B2,B5	C1,C2,C3,C4,C5,C10	D6,D7,D8,D9