

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√ 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 social-behavioral 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-

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}.

• No External reference (Benchmark).

3- program Structure and Contents

3.A. Program duration (≥3.5 years)

3 B. Program structure:

Topic	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

^{**}Program External References

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	No. of hours /week		ek	Program ILOs Covered
	Lect.	Practical	Tutorial	
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
				B 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 ≥3.5 years), starting from registration till acceptance of the thesis; divided to:

First Part: (≥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 ≥ *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.

6-Teaching and learning methods

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
 Short assay (33.33%) 	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
	C- General & Hansierable 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.	300	100	200	600
Hepatology				
Gastrointestinal disease				

9-Evaluation of program intended learning outcomes:

Ev	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

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 قادرا على:	Graduate of doctorate (MD) program in any specialty should be able to:
فادرا على: 1.1. إتقان أساسيات ومنهجيات البحث العلمي.	1.1. Mastery of basic research skills and types of study design.
العلمي. 1.2. العمل المستمر علي الإضافة للمعارف في مجال التخصص.	1.2. Contribute to development, application, and translation of new medical knowledge in his scholarly field through research.
1.3. تطبيق المنهج التحليلي والناقد للمعارف في مجال التخصص والمجالات ذات العلاقة.	1.3. use analytical and critical skills in observing, collecting and interpreting data.
1.4. دمــج المعــارف المتخصصــة مــع المعــارف ذات العلاقــة مســتنبطا ومطورا للعلاقات 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 والنظريات الحديثة في مجال التخصص.	1.5. Demonstrate an awareness of current health problems and recent theories in his scholarly field
1.6. تحديد المشكلات المهنية و إيجاد حلو لا 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.
 التوجه نحو تطوير طرق و أدوات و أساليب جديدة لمزاولة المهنية. 	approaches in the professional medical practice of the specific field.
1.9. استخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية	0,
1.10. التواصل بفاعلية وقيادة فريق عمل في سياقات مهنية مختلفة.	group and gain leadership skills.
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 إيجاد موارد جديدة .	, ,
1.13.الوعي بدوره في تنمية المجتمع و الحفاظ على البيئة.	1.13. Be aware of his community needs related to his field and have the ability to improve & maintain health care and carryout system-based improvement.
1.14.التصرف ب ما يعكس الالتزام بالنزاهة والمصداقية وقواعد المهنة.	

علمه و	ونقل	المستمرة	الذاتية	بالتنمية	الالتزام	.15.	1
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1.15. Critically reflect on one's own performance to set learning and improving goals and sharing his knowledge.

Standards (ARS) for MD Program NAQAAF General Academic 1.2. المعرفة والفهم: 2.1. Knowledge and understanding:	
NAQAAE General Academic المعرفة والفهم: 2.1. Knowledge and understanding:	
:المعرف والفهم: 1.2. 2.1. Knowledge and understanding	
Upon completion of the doctorate Program بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج	(MD)
the graduate should have sufficient know	
the graduate should have sumblent know	Medge
and understanding of: عمل المعارف في and understanding of: 2.1.1. Theories, basics and updated knowl	من مام م
2.1.1. Theories, basics and updated knowl مجال التخصيص والمجالات ذات العلاقة his scholarly field and related basic science	
2.1.2. Basic, methods and ethics of وأدواته المختلفة وأخلاقيات البحث العلمي research.	medical
2.1. 3. Ethical and medicolegal princip مجال التخصص مجال التخصص medical practice.	les of
4.1.2 2.1. 4. Identify Principles and fundamel مبادئ وأساسيات الجودة في الممارسة المهنية في	ntal of
, , , , , , , , , , , , , , , , ,	to 5.
2.1.5. Knowledge related to effec البيئة وطرق تنمية البيئة وصيانتها professional practice on public health methods of maintenance and	
system-based improvement of public healt	h. l
المفادات الذهنية: 2 2 2 Intellectual skills:	
2.4. General and transferable skills والمهارة المناهاة ا	
على: Upon completion of the doctorate pro Completion of the doctorate pro Completion of the doctorate program (MD), the graduate must be able to: (MD), the graduate must be able to: 1.2.2 2.2.1 Analysis and evaluation of informa	gram),
the graduate must be able to: المعلومات في مجال التخصص والقياسي: 1.2.2 2.2.1 Analysis and evaluation of informa	ation to
c 2.4.1. Communicate (in writing and والإوانت المختلفة	orally)
effectively and respectfully with peers, حل المشاكل المتخصصة استنادا على المعطيات المتاحة	faculty,
a colleagues, and other members of the hea	Ith care
ti team, understanding the role of consultation	ons and
referrals. جراء دراسات بحثية تضيف إلى المعارف بوتيون و يويون على المعارف بوتيون المعارف المعارف بوتيون المعارف بوتيون المعارف بوتيون المعارف المعارف بوتيون المعارف المعارف بوتيون المعارف المعارف بوتيون المعارف بوتيون المعارف بوتيون المعارف بوتيون المعارف بوتيون المعارف بوتيون المعارف المعارف بوتيون المعارف المعارف بوتيون المعارف ال	
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2.4.3. Demonstrate effective teachir تعليم الأخرين وتقييم أداءهم	ig and
evaluating others. <u>5.2.2</u> 2.5 evaluating others. 2.4.4. Self-assessment and continuous le	
2.4.4. Self-assessment and continuous le	
2.2.6. Establish goals, commitments and str التخطيط لتطوير الأداء في مجال التخصص	
fo 2.4.5. use physical information resource استخدام المصادر المختلفة للحصول على المعلومات	
analog), online (electronic, digital,) text,	, audio-
analog), online (electronic, digital,) text, والمعارف. 2.2 video, book and journal to address progressions and knowledge to sustain profe	medical
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على ادارة الوفت 3.4.7 لا لهاره الثاقة المهتبية ا لعلمبهة و القدر ة على ادارة الوفت	ie
ability to manage Time effectively	
Upon completion of the doctorate progran بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا	n (MD),
the graduate must be able to:	

	2.3.1 Master the basic as well as modern
التحصيص	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

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 research.	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	A10- Identify knowledge of established and evolving biomedical,
practice on public health and methods of	clinical, epidemiological, and social-behavioral sciences, as well as

maintenance and system-based improvement of	the application of this knowledge to the care of patients with
public health.	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	B6- Adopt principles and fundamentals of quality assurance and
improved productivity and performance.	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	C1-Apply the basic and modern professional skills in hepatology and
practical and/or clinical skills.	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. 2.3.4. use of technological means to serve Professional practice.	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, tool and ways of
	professional practice
2.3.5. Planning for the development of professional practice and improve of the performance of others	C9- Evaluate and develop of methods and tools existing in the 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, colleagues, and other members of the health care team, understanding the role of consultations and referrals.	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.
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, audiovideo, book and journal to address medical questions and knowledge to sustain professional growth.	D7- Adopt different information resources (print, analog), online (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 (List of courses in 1 st and 2 nd parts)		Program Intended Le	earning Outcomes (ILOs)	
	A. Knowledge &	B. Intellectual	C. Professional &	D. General &
	Understanding	Skills	Practical skills	Transferable Skills
	A	В	С	D
First part		I		
. 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				
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

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

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

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

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

Course Coordinator: Head of Department:

Prof Dr / Hala Ibrahem DR/ Wael Abdelghany

Date 5/3/2023



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 course	By the end of the course the st	udent must be able to:
	Gain skills necessary for pr Research Methods including and decision making skills.	oper practice in the field of diagnostic, problem solving
	Apply ethical principles of sawareness about patient's rig	_

- 3. Use precisely the research methodology in researches
- 4. Influence the students to adopt an analytical thinking for evidence-based medicine
- 5. Enable graduate students to use statistical principles to improve their professional work and develop the concept of critical interpretation of data
- 6. To use precisely computer programs SPSS, Epi Info and Excel in data analysis

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

Upon completion of the co	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 su	ımmarize data				
	B.7. Select the prope	er test of signifi	cance for a sp	ecific data.		
	B.8. Interpret selecte obtained from such t	•	ficance and th	e inferences		
C. Professional and Practical Skills	C.1. Plan a research	proposal for c	ommunity diac	inosis.		
	C.2. Design question		, , , , , ,	,		
	C.3. Conduct resear					
	C.4. Judge associati		on			
	C.5. Criticize for bias					
			ing factors			
	C.6. Design data entry file C.7. Validate data entry					
		•				
	_	C.8. Manage data files				
	C.9. Construct tables	•				
	C.10. Calculate diffe	•				
	C.11. Calculate mea dispersion	sures of centra	l tendency and	d measures of		
D. General and transferable Skills	C.12. Calculate sens	sitivity, specifici	ty, and predict	ive values		
D. General and transferable Skills	D.I. Lead a research team	to conduct a spec	cific study .			
	D.2. Take part and w research.	ork coherently	with his assoc	ciates to in		
	D.3. Write scientific	papers.				
	D.4. Appraise scient	ific evidence				
	D.5. Analyze and int	erpret data				
	D.6. Use standard co	omputer progra	ms for statistic	cal analysis		
4. Course Contents	•					
Topic		No. of hours	Lecture	Tutorial/ Practical		
Торіо		No. or nours	Lootare	Tatorial, Tradical		
Research methods Introduction:				1		
- Introduction to research Terminology and Rationale			3			
- Originality - Study design :						
-Cross sectional study and the prevalence- Cohort study, incidence rate, relative &			4			
-Case-control study, Odd's ratio samplin			7			
-Experimental study and clinical trials - Sources of Errors in Medical Resear			3			
 Bias and confounding and its Control Validity and reliability 	ol.		2			
- The questionnaire design - Writing the Research Paper or Manu	script		2			
- Protocol Writing	•		2	2		
- Critic technique for the literature rev - Association and causation			2 1	2		
Evidence -based approach in medic Ethics of medical research	cal practice		2 2	1		
Statistics			_	1		
Sampling		1	1			

		1	
	1	1	
	1	1	
	1	1	
		1	
		1	
		1	
		1	
		1	
		1	
	1	1	
	30	15	
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 Minituniversity site Lectures: Face to face lectures, Prerecorded video lectures Practical lessons Assignment Online quizzes			
Outstanding student rewarded certificate of appreciation due to high level or achievement Limited students divided into small			
of appreaachievem • Limited st	ciation due t ent tudents divide	o high level of	
of appreaachievem • Limited st	ciation due t ent tudents divide	o high level of	
of appreaching achievem • Limited stagroup to r 7.1- Researc general skills.	ciation due to the total ciation due to the tudents divided make learning to the total ciation due to the tudents divided make learning to the tudents divided to tudents divided to tudents divided to tudent	o high level of d into small more effective	
of appreachievem • Limited stagroup to r 7.1- Researc general skills. 7.2- Written 6	ciation due to the tudents divided make learning hassignment transferable siexams:	d into small more effective t: to assess kills, intellectual	
of appreachievem • Limited stagroup to r 7.1- Researc general takills. 7.2- Written expenses the stagroup to r	ciation due to the tudents divided make learning hassignment transferable slearning exams:	d into small more effective t: to assess kills, intellectual	
of appreachievem • Limited stagroup to r 7.1- Researchies general taskills. 7.2- Written expenses of the commence of the co	ciation due to the tudents divided make learning h assignment transferable sleexams: exams: esay: to assesses to assesse to assesses to assesses to assesses to assesses to assesse to assesse to assesse to assesse to assesse to assesses to assesse to	d into small more effective t: to assess kills, intellectual s knowledge. ss intellectual	
of appreachievem • Limited stagroup to r 7.1- Research general taskills. 7.2- Written expenses of the commence of the comme	ciation due to the tudents divided make learning The assignment transferable sleepass: Sesay: to assesse that the assignment transferable sleepass: The assignment transfer	d into small more effective t: to assess kills, intellectual s knowledge. ss intellectual ssess practical	
of appredachievem • Limited stagroup to r 7.1- Researce general skills. 7.2- Written e • Short es • Comme skills. 7.3- Practical skills, intellect 7.4- Oral Extensive skills.	ciation due to the tudents divided make learning hassignment transferable sleexams: sexams: sexams: to assess to assess to a stual skills. cams: Oral e	d into small more effective t: to assess kills, intellectual s knowledge. ss intellectual ssess practical xams to assess understanding,	
of appredachievem • Limited stagroup to r 7.1- Researce general skills. 7.2- Written e • Short es • Comme skills. 7.3- Practica skills, intellect 7.4- Oral Extensive attitude	ciation due to the tudents divided make learning hassignment transferable slexams: Sexams: Sexams: Sexams: Sexams: Communication of the tudents of the tudents of tudents o	d into small more effective t: to assess kills, intellectual s knowledge. ss intellectual essess practical xams to assess understanding, on	
of appredachievem • Limited stagroup to r 7.1- Researce general taskills. 7.2- Written e • Short es • Comme skills. 7.3- Practica skills, intellect 7.4- Oral Extended attitude 7.5- Structure knowled	ciation due to the tudents divided make learning hassignment transferable slexams: Sexams: Sexams: Sexams: Sexams: Communication of the tudents of the tudents of tudents o	d into small more effective t: to assess kills, intellectual s knowledge. ss intellectual xams to assess understanding, on s: to assess	
of appreachievem • Limited stagroup to r 7.1- Researce general taskills. 7.2- Written expension • Short especially skills. 7.3- Practical skills, intellected attitude 7.4- Oral Expension * Knowled attitude 7.5- Structure knowled Assessment 24-28 Assessment 2	ciation due to the tudents divided make learning The assignment transferable sleep and transferable services and tual skills. The actual skills are tual skills and tual skills are tual skills. The actual skills are tual skills are tual skills and tual skills are tual skills. The actual skills are tual skills are tual skills are tual skills. The actual skills are tual skills are tual skills are tual skills. The actual skills are tual skills are tual skills are tual skills. The actual skills are tual skills are tual skills are tual skills are tual skills. The actual skills are tual skills are tual skills are tual skills are tual skills. The actual skills are tual skills. The actual skills are tual skills are tual skills are tual skills are tual skills. The actual skills are tual skills. The actual skills are tual skills are	d into small more effective t: to assess kills, intellectual s knowledge. ss intellectual xams to assess understanding, on s: to assess	
	approach was face interaction 60% of study m online Online learning University site Lectur record Practic Assign	1 2 1 30 Due to COVID-19 pandemic, approach was adopted that mi face interaction activities with 60% of study method is offline sonline Online learning materials are University site Lectures: Face to face le recorded video lectures Practical lessons Assignment	

F. 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	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
	Computer:
	- Discovering statistics using IBM SPSS statistics, Field, A. (2013). sage.
	 Medical Statistics: A Guide to SPSS, Data Analysis and Critical Appraisal, Belinda Barton, Jennifer Peat - 2nd EditionEveritt, Brian S.
	 Medical statistics from A to Z: a guide for clinicians and medical students. Cambridge University Press, 2021.

	-	Bowers, David. Medical statistics from scratch: an introduction for health professionals. John Wiley & Sons, 2019.
	-	Aviva, P. (2005): Medical Statistics at a Glance, Blackwell Company, 2nd, ed., Philadelphia
D. Periodicals, websites	-	https://phrp.nihtraining.com/users/login.php http://www.jhsph.edu/
	-	Journal of Biomedical Education
	-	https://lagunita.stanford.edu/courses/Medicine/MedStats- SP/SelfPaced/about?fbclid=lwAR3nfirLM4wnuEqqUjLjk8TCR7lzPdnpGqwin06L- GjFq32a62w3j6R5s9c

Course Coordinators:

- > Coordinator:
 - 1) Assistant Professor/ Ebtesam Esmail
 - 2) Professor/ Eman Sameh
- ➤ Assistant-coordinators:
 - 1) Ass. Lecturer/ Shaza Fadel
- O Head of Department:

Professor Dr. Nashwa Nabil Kamal

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

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

Nasha N.Kul

Matrix of Coverage of Course ILOs By Contents

Contents		I	ntended Learnin	g Outcomes (ILOs	s)
(List of course topics)	sek No.	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	We	A	В	C	D

Introduction: - Introduction to research Terminology and Rationale - Originality	A.1, A.2,			
- Study design: -Cross sectional study and the prevalence rate -Cohort study, incidence rate, relative & attributable risk -Case-control study, Odd's ratio sampling -Experimental study and clinical trials	A.3, A.4,	B.1, B.2, B.3, B.4,	C.1,	
- Sources of Errors in Medical Research - Bias and confounding and its Control.		B.3,	C.5	
- 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	B. Intellectual Skills	C. Professional & Practical skills	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,	B.4. B.5, B.6	C.1, C.4, C.11	D.3, D.4	

	A.14, A.15, A.16,			
	A.18			
Practical	A.9, A.10, A.11, A.12,	B.1, B.2, B.3, B.4,	C.3, C.5, C.6, C.7,	D.2, D.4, D.5, D.6
	A.13, A.16. A.17, A.18	B.6, B.7, B.8	C.8. C.9, C.10,	
			C.12	
Assignment	A.11, A.13, A.18	B.7, B.8	C.2, C.6, C.8, C.9,	D.1, D.2., D.4, D.5,
			C.10, C.12	D.6

Matrix of Coverage of Course ILOs Methods of Assessment

	Intended Learning Outcomes (ILOs)					
Methods of Assessment	A. Knowledge & Understanding	J		D. General & Transferable Skills		
	A	В	C	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

Topic	Hour	% of topic	Total No. of items	Written exam (100 marks)		Marks (percentages)	Modified marks (Percentages)
				Knowledge	Intellectual		
Research							
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%
 Sources of Errors in Medical Research Bias and confounding and its Control. 	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%
- Writing the Research Paper or Manuscript - Protocol Writing	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 hour	 rs:				
- Lectures : 20 hours					
- Practical/clinical: 10) hours				
- Total: 30 hours					
2. Overall Aims of the course	By the end of the course the studer	nt must be able to:			
	Recognize knowledge about the software and their applications in Medicine				
	Gain skills necessary for using a systems	and managing heath care information			
3. Intended learning outcomes of Upon completion of the cour	course (ILOs): se, the student should be able to:				
A. Knowledge and understanding	 A.1. Define each part of computer har A.2. Have a basic understanding of varied medicine - for instruction, inform medical record, etc. A.3. Define telemedicine and its importance of health in improvement of healthcare A.4. Recognize importance of health in improvement of healthcare A.5. Describe electronic medical record A.6. Identify the concept of big data and 	arious computer applications in ation managing, and computer based rtance Information technology in ards and obstacles facing it			

B. Intellectual Skills	B.1. Criticize add	option of telemedicin	e		
	B.2. Discover fac	ctors constraining ad	doption of telemedici	ne	
C. Professional and Practical Skills	C.1. Design fram performand		nding of health inforn	nation system	
D. General and transferable Skills	D.1. Utilize comp	outers in conducting	research		
Skills	D.2. Appraise ad	loption of telemedici	ne		
	D.3. Discover ski system perfo		process of improving	health information	
4. Course Contents	1				
Topic		No. of hours	Lecture	Tutorial/ Practical	
Use of Computer in Medicine					
General concepts		6	4	2	
Introduction to Microsoft PowerPo	oint	0	4	2	
Health Information Systems (HIS)	6	4	2	
Telemedicine		6	4	2	
Software Used in the Health Care	Software Used in the Health Care		4	2	
Big Data Analysis in Health	Big Data Analysis in Health		4	2	
Total		30	20	10	
5. Teaching and Learning Method	ds	interaction activi	-19 pandemic, I lopted that mixes v ties with the online offline and 40% of	e learning. 60% of	
		Online learning University site	materials are a	vailable at Minia	
		 Lectures video lec 	: Face to face lecture tures	es, Pre-recorded	
		 Practical 	lessons		
		■ Assignm	ent		
		 Online qu 	uizzes		
6. Teaching and Learning Method with limited Capacity	ds for students	Outstanding student rewarded certificate of appreciation due to high level of achievement			
		Limited student learning more effet	ts divided into sma ective	all group to make	
7. Student Assessment					
A. Student Assessment Methods			signment: to assess		
		7.2- Written exan	ns:		
		Short essay	to assess knowledg	ge.	

	Commentary: to assess intellectual skills.
	7.3- Practical Exams: to assess practical skills, intellectual skills.
	7.4- Oral Exams: Oral exams to assess knowledge and understanding, attitude, communication
	7.5- Structured oral exams: to assess knowledge.
B. Assessment Schedule (Timing of Each	Assessment 1: Final written exam week: 24-28
Method of Assessment)	Assessment 2: Oral exam week: 24-28
	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	 National Institutes of Health: http://www.nih.gov American Medical Informatics Association: http://www.amia.org/

Course Coordinators:

- ➤ Coordinator:
 - 3) Assistant Professor/ Ebtesam Esmail
 - 4) Professor/ Eman Sameh
- > Assistant-coordinators:
 - 1) Ass. Lecturer/ Shaza Fadel
- o Head of Department:

Professor Dr. Nashwa Nabil Kamal

Nasha N. Kul

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

Matrix of Coverage of Course ILOs By Contents

		Inte	ended Learning	g Outcomes (IL	Os)
Contents (List of course topics)	Week No.	A. Knowledge & Understandin g	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	Wee	A	В	C	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 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
	A	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			
	A	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	Hour	% of topic	Total No. of	Written exam (100 marks)		Marks (Percentages)	Modified marks
Medicine course			items	Knowledge	Intellectual	, ,	(Percentages)
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: MiniaFaculty: Medicine

[1]- Basic Information

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

Academic Year/level: Postgraduate; 1st Part MD To Number of teaching Lectures: Total of 24 hours; Practical: Total of 24 hour;	hours: 1 hour/week 1 hour/week	Course Title: Course Specification of Pathology (MD Tropical Medicine)	Code:PA100
[2]- Professional Information (I)- Overall aims of the course	1. Explain th 2. Appraise 8 data to reach 3. Plan for the techniques a 4. Demonstres and of the safety and medical forms and communicate profess 7. Use efficiency and medical forms and general	eories, basics & recent advances in the field of pathors in the relevant basic information and correlate the a final diagnosis. e development of acquisition of skills of basic & mode as well as principals of anatomical pathology. The accompetency on dealing with various biopsies a correlate such information with the relevant provided basics of essential techniques and follow issues remaintenance of available resources. Cate efficiently with senior staff, colleagues, lab tectionals, students, and patients. ently the information technology including data entrement and to achieve improvement of the professional me efficiently and learn to priorities tasks. Skills of continuous & self-learning.	rn pathological laboratory nd anatomical pathology clinical data. elated to maintenance of chnical staff, other health y & analysis to enhance
(II)- Intended learning outc Upon completion of the co			
(A)- Knowledge and understanding	diagnostic te A2: Recognis A3: Identify t A4: Describe A5: Recognis A6: Describe A7: Define m A8: Recogn pathogenesis	se the causes of cell injury and its consequences. he basics of general pathological features of inflamment the process of tissue healing se infectious agents and bacterial infections a in details granuloma pathogenesis, types, and pathogenesial infection hise different forms of haemodynamic disorders	nation. ology

	A10: Discuss different environmental diseases as tobacco smoking, alcohol consumption, occupational diseases, and exposure to irradiation, nutritional disorders, and obesity. A11: Define and discuss the main disease categories of the gastrointestinal tract. A12: Define and discuss the main disease categories of the hepatobiliary system and pancreas A13: Define and discuss the main disease categories of the haematopoietic and
	lymphopoietic systems
(B)- Intellectual Skills	B1: Correlate & 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. 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
(C)- Professional and	C1: Deal with anatomical pathology specimens in view of adopted standards as well as
Practical Skills	quality & safety procedures.
	C2. Practice efficiently basic and modern laboratory techniques that include histochemical,
	immunohistochemical and other principal procedures such as biopsy preservation
	C3: Counsel expertise in the lab regarding the basics of essential techniques and issues related to maintain safety and available resources.
(D)- General and	D1: Demonstrate efficient communication & interpersonal skills in all its forms and in
transferable Skills	different situations that may involve senior staff, colleagues, students, lab technical staff, other health care professionals, and patients
	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.
	D3: Develop skills of self-evaluation and identify personal learning needs to plan for self-
	development and continuous medical education
	D4: Demonstrate the skills of effective time management.

[3]- Course Contents

TOPIC	Contact hours			
ТОРІС	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

[0]- Student assessment					
(A)- Student assessment methods	Attendance criteria: by faculty regulations (Activity logbook)				
	Assessment Tools:				
	{I}- Final Written exam:				
	A- Short essay to assess	s knowledge and understanding			
	B- Problem solving to ass	sess intellectual skills			
	C- MCQ to assess knowl	C- MCQ to assess knowledge and intellectual skills			
	{II}- Oral exam; to assess knowledge, understanding, intellectual skills,				
	attitude, and communication.				
(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

[7] List of References	
(A)- Course Notes/handouts	Lectures hand outs by staff members
(B)-Essential Books (textbooks)	Robbins Basic Pathology, 10 th 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



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

	Intended Learning Outcomes (ILOs)				
Contents	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills	
(A)- General pathology [1]- Routine and special techniques in surgical pathology and the related safety & quality measures. [2]- Handling of anatomical pathology specimens and the related safety & quality measures. [3]- Cell injury and cell death [4]- Inflammation [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	A1,2,3,4,5,6,7,8,9,10	B 1, 2	C 1, 2, 3	D 1, 2	
[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 af tagahina	Intended learning outcomes (ILOs)				
Methods of teaching & learning	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills	
Lecture	✓	✓	NA	NA	
Practical	✓	✓	✓	✓	
Presentation/seminar	NA	NA	✓	✓	
Journal club	✓	✓	NA	✓	
Training courses & workshops	✓	✓	✓	✓	

(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	✓	✓	NA	NA	
Practical exam			✓	✓	
Clinical exam	NA	NA	NA	NA	
Oral Exam	✓	✓	✓	✓	
Assignment	√	✓	NA	NA	
Structured oral exams	NA	NA	NA	NA	

Blueprint of pathology course for Doctrac degree (1st part)¶ 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)	- 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

Topic	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%

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

Merhan M.Ragy

Head of Department: Professor Dr. Merhan Mamdoh Ragy

Date: 6 / 3 / 2023

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	B3	-	
Physiology of Central Nervous System (CNS)	A9	1	-	-
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 Learning Outcomes (ILOs)				
Methods of Teaching & Learning	Knowledge & Understanding	Intellectual Skills	Professional & Practical skills	General & Transferable Skills	
	A	В	C	D	
Lectures	X	X	-	X	
Self-learning activities	X	X	X	-	

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

	Intended Learning Outcomes (ILOs)						
Methods of Assessment	Knowledge & Understanding	Intellectual Skills	Professional & Practical skills	General & Transferable Skills			
	K	I		T			
Written exam	X	X	-	X			
Oral Exam	X	X	-	X			
Log Book	X	X	-	X			

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 (1st part) Tropical Medicine (TM100)

Topic	ILOs	Contact Hours	Knowledge %	Intellectual %	Weight %	Total Mark	Actual Mark
Physiology of Hematological System (Blood): general		4	70	30	8.3	8.3	8
composition & functions of blood components. Clinical conditions resulting from abnormalities of blood components.	1						
Physiology of Cardiovascular System (CVS): the factors affecting and regulation of arterial blood pressure (ABP).	;	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
Physiological basis of Metabolism: regulatory mechanisms of body temperature & disorders.	4	4	70	30	8.3	8.3	8
Physiological basis of Endocrinal System: mechanisms of Ca ⁺² & 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.

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

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 social-behavioral 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

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- 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 Practical Skills	By the end of the study of doctorate program In Tropical Medicine the candidate should be able
Tradition Civilia	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, audiovideo, 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
Seually transmitted diseases	1		1
Protozoal infection	1	1	2
CNS infections	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	33	13	40
AlcoholicLiver Diseases	4	4	4
Acute Liver Failure	1	1	1
Immune mediated liver diseases	2	1	1
Covid 19 in hepatic patient	1	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			
portal hypertension	1	1	1
ascites	2	2	1
Primary Tumors of the Liver and Intrahepatic Bile	1	1	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	1		
Investigations of GIT	2	2	4
Esophageal diseases		2	8
Functional disorders			
Esophageal Infection			
Esophageal Motility disorders			

GERD	6		
Esophageal Tumors			
Vascular diseases			
Gastric diseases	4	2	6
Peptic Ulcer Disease			
Gastric motility disorders			
Gastric tumors			
Vascular diseases			
Pancrease	4	2	6
Pancreatitis			
Pancreatic Cancer			
Pancreatic Endocrine Tumors			
Small and Large Intestine	6	2	8
Functional disorders			
Malabsorption			
Inflammatory Intestinal diseases			
Diverticular Disease			
Colonic Polyps and Polyposis Syndromes			
Benign and malignant Neoplasms Vascular			
diseases			
GIT manifestation of Covid 19	1		1
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	Assessment 1: Written exams: MCQ, case scenario,
	short essay and Commentary:
	- Assessment 2: Clinical Exams. (OSCE, Case
	discussion long and short case)
	Assessment 3: Oral exam, after the written exam
Assessment Schedule (Timing of Each	Exam are set twice a year April and September
Method of Assessment)	
Weighting of Each Method of Assessment	Weighting of Assessments
	Written exams :300(50%)
	Clinical Exams: 200 (33.3%)
	Oral exam : 100(16.6%)
8-List of References	1- course notes
	2- Hunter's Tropical Medicine and Emerging Infectious
	Diseases.NINTH EDITION (2012)
	3-Mandell, Douglas, and Bennett's:Infectious Disease
	ESSENTIALS (2017).
	1- SHERLOCK'S DISEASES OF THE LIVER AND
	BILIARY SYSTEM (2018)
	2- Zakim and Boyer's Hepatology: A Textbook of
	Liver Disease (Seventh Edition) – 2018
	3- Yamada's Handbook of Gastroenterology
	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.

Teaching and Learning Methods for students with limited Capacity

o e experience

Head of Department:: Prof Dr / Wael Abdelghany

Date: 5/3/2023

Not applicable

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 Outcomes (ILOs)						
•	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills			
	Α	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,A1O,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,A1O,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,A1O,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,A1O,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,A1O,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,A1O,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,A1O,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,A1O,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,A1O,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,A1O,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,A1O,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,A1O,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	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			
Staphylococcus aureus (MRSA) colonization	. , , -,						
Nosocomial 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			
Covid 19 typical and atypical presentation and complication	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			
Investigations of liver disease (liver function tests, heptic imging and	A1	B2					

liver biopsy,radioisotopic studies)				
Approach to the Patient with Abnormal Liver	A1	B1,B2		
Enzymes				
Viral Infections by	A1,A2 A,3, , ,A8,A9,A1O, A11	B2,B4,B5,B7,B9	C1,C2,C3,C4,C5	D1,D2,D3,D5,D6,D7,D8,D9
Hepatotropic and	All			
Nonhepatotropic				
Viruses				
Non viral liver infection	A1 A2 A 2 A8 A0 A10 A11	D2 D4 D5 D7 D0	C4 C2 C2 C4 C6 C7 C9 C0 C40	D4 D2 D2 D5 D6 D7 D0 D0
Non viral liver 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
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,A1O,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	B2,B4,B5,B7,B9	C1,C2,C3,C4,C6,C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
Immune mediated liver	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		Do D / D = D = T =	04.00.00.01.00.00	D4 D0 D0 D7 D0 T7
Covid 19 in hepatic patient	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
Metabolic liver diseases	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
NASH- NAFLD	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
Drug-Induced and Toxic Liver Disease	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
liver disorders lin children	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
Pregnancy-Specific c Liver Diseases.	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
Liver Cirrhosis (etiology,	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
clinical picture, diagnosis and treatment				
portal hypertension	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
ascites Primary Tumors of the	A1,A2 A,3A8,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
Liver and Intrahepatic Bile Ducts	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
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,A1O,A11	B5,B6,B7,B8,B9	C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
Biliary Infections	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
Nutrition in Gastroenterology	A1, A8,A9,A10,A11	B2,B4,B5,B7,B9	C 1, C 2, C 3, C 4,C6, C7,C8,C9,C10	D1,D2,D3,D5,D6,D7,D8,D9
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,	
Esophageal Infection			C7,C8,C9,C10	
Esophageal Motility				
disorders				
GERD				
Esophageal Tumors				
Vascular diseases				
Gastric diseases	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
Peptic Ulcer Disease			C7,C8,C9,C10	
Gastric motility				
disorders				
Gastric tumors				
Vascular diseases	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
Pancrease	A1,A2 A,3,A0,A9,A10,A11	DZ,D4,D3,D1,D8	C7, C8, C9, C10	D1,D2,D3,D3,D0,D1,D0,D9

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 o	f ILOs by	Methods of	Teaching &	Learning
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3-

Matrix of Coverage of Program ILOs by methods of assessment

	Methods of		Intended	d Learnin	g Outc	omes (ILOs)				
	Assessment									
		Know	edge &	Intelle	ectual	Prof	essional &	(General & Transfer	able
		Unders	standing	Sk	ills	Pract	ical skills		Skills	
			Α	E	3		С	D		
Writ	ten exam	1,2	,3,10	^A 1,2	В		С		D	
Clini	ical&Practical		1,2,3,10	1,2	,7,9	2,3	-		-	
exan	n	(Case	3		1,2		C1,2,3,4		-	
		ase								
Oral	Exam	A1, itient	2,3,10						3,5,8	
	seminar		1,2		8,9		8,10		1,2,3,4,6,7,8,9	
	Training course	s &			-		1,5,7,8,9,10		1,2,3,8	
	workshops.									
	Conference atte	ndance	-		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	

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
Vival in faction	3	75	25	11.25	10
Viral infection					
Systemic Fungal infaction	1	75	25	3.75	4
infection	1	75	25	3.75	4
Opportunstic infection	'	75	25	3.75	4
Seually transmitted	1	75	25	3.75	4
• Security transmitted diseases	'	'3	23	3.73	
Protozoal infection	1	75	25	3.75	4
CNS infections	2	75	25	7.5	8
Respiratory	2	75	25	7.5	8
infections	-				
GIT infection	3	75	25	11.25	10
Fever of unknown	2	75	25	7.5	7
<u>origin</u>					
Heat disordes	1	75	25	3.75	4
Zoonotic infections	1	75	25	3.75	4
Methicillin-resistant	1	75	25	3.75	4
Staphylococcus					
				1	ı

		1		_		1 -
	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					
HEPA	ATOLOGY &GIT					
•	Alcoholic Liver	1	75	25	3.75	4
	Diseases					
•	Acute Liver Failure	1	75	25	3.75	4
•	Immune mediated	2	75	25	7.5	7
	liver diseases					
•	Metabolic liver	2	75	25	7.5	7
	diseases					
•	NASH- NAFLD	1	75	25	3.75	4
•	Drug-Induced and	1	75	25	3.75	4
	Toxic Liver Disease					
•	liver disorders In	2	75	25	7.5	7
	children					
•	Pregnancy-Specific c	2	75	25	7.5	7
	Liver Diseases.					
•	Liver Cirrhosis	2	75	25	7.5	7
	(etiology, clinical					
	picture, diagnosis					
	and treatment					
•	portal hypertension	1	75	25	3.75	4
•	ascites	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
	cholestasis					
•	Liver Transplantation	2	75	25	7.5	8
•	Biliary Infections	1	75	25	3.75	4
						1

 Covid 19 in hepatic 	1	75	25	3.75	4
patient					
Nutrition in	1	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	25	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	1	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

in the section

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					
		Б							
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		skills			
		В		D		
	Α		С			

Written exam	A1,-9	B1,B2,B7		
	, -	, ,		
Clinical& Practical exam			C1,C2,C3	
Oral Exam	A1,A2,	B1,B2,B7		
Oral Exam	A3,A4,A5,	01,02,07		
	A6,A7,A8,A8,			
	A10			
	A1,A2, A3,A4,A5,	B1,B2,B5	C1,C2,C3,C4,C5,C10	D6,D7,D8,D9
	a6,A7,A8,A8,			
LogbooK	a0,A7,A0,A0,			
Logbook				
	A10			

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