

Peer Revision

Reviewers	University	Date of Revision
- Prof. Dawlat Salem	Cairo	10/12/2011
- Prof. Ahmad K. Mansur	Mansura	28/11/2011

Program Specification of MD Degree in Tropical Medicine and Gastroenterology

Sohag University

Faculty of Medicine

A. Basic Information

1. Program title: MD degree in Tropical Medicine and Gastroenterology.
2. Program type: Multiple
3. Faculty: Faculty of Medicine
4. Department : Tropical Medicine and Gastroenterology
5. Coordinator: Dr/ Mahmoud Saif Al-Islam Abd Elfatah
6. Assistant Coordinator: Dr/ Asmaa Naser Ahmed
7. External Evaluator Prof. Dr. / Hamdy Mahfoz
8. Last date of program specifications approval: Faculty council No"317", decree No. "1533" dated 17/12/2018.

B. Professional Information

1. Program Aims

The aim of this program is to provide the postgraduate student with the advanced medical knowledge and skills essential for perfecting the practice in the field of tropical medicine and gastroenterology through providing:

1. Recent scientific knowledge essential for the practice of tropical medicine and gastroenterology according to the international standards.
2. Skills necessary for proper diagnosis and management of patients in the field of tropical medicine and gastroenterology including problem solving and decision making skills.
3. Ethical principles related to medical practice in this specialty.
4. Active participation in community needs assessment and problems identification.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Upgrading research interest and abilities.

2. Attributes of the post graduate:

- 1- Good Application of the scientific research standards and methods, and the proper use of research tools.
- 2- Continuous effort to share and enhance the international knowledge and development in the field of tropical Medicine and Gastroenterology
- 3- Application of analytical sciences in tropical Medicine and Gastroenterology research.
- 4- To be able to apply the knowledge earned during his study in tropical Medicine and Gastroenterology.



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5. Maintenance of learning abilities necessary for continuous medical education.
6. Upgrading research interest and abilities.

2. Attributes of the post graduate:

- 1- Good Application of the scientific research standards and methods, and the proper use of research tools.
- 2- Continuous effort to share and enhance the international knowledge and development in the field of tropical Medicine and Gastroenterology
- 3- Application of analytical sciences in tropical Medicine and Gastroenterology research.
- 4- To be able to apply the knowledge earned during his study in tropical Medicine and Gastroenterology.

- 5- Awareness of the current situation and problems in gastrointestinal diseases and recent updates and challenges.
- 6- Ability of problem identification and solving enlightened with the recent update in infectious diseases.
- 7- Efficient professional skills and the ability to use modern technology in the diagnosis and/or treatment of infectious and gastrointestinal diseases.
- 8- Communication and cooperation of his colleagues in the same specialty and in other specialties.
- 9- Ability to guide teamwork in professional and research issues.
- 10- Decision making, according to the available medical data.
- 11- Good utilization of the available resources and effort to increase these resources and to find new ones.
- 12- Follow the well-agreed medical ethics and medical laws.
- 13- Awareness of his role in community development and environmental saving facing the national and international changes.
- 14- Ability to self and continuous education, and the continuous professional and academic development.
- 15- Ability and desire to transfer his experience to his colleagues, and to educate junior fellows.

3. Program Intended Learning Outcomes (ILOs)

a) Knowledge and Understanding:

By the end of the study of this doctoral program the candidate should be able to:

- a1. Mention the recent advances in the normal structure and function of the gastrointestinal system.
- a2. Describe recent advances in the normal gastrointestinal motility.
- a3. Mention recent advances in the normal gastrointestinal secretion.
- a4. List the recent advances in the abnormal function of gastrointestinal and hepatobiliary systems.
- a5. Enumerate recent advances in regulation of the normal body temperature.
- a6. Describe recent advances in therapeutic intervention in hepatology and gastroenterology.
- a7. Enumerate methods of promoting liver and GI tract health and preventing their illness.
- a8. List the clinical picture and differential diagnosis of febrile illnesses.
- a9. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of hepatic and GI diseases.
- a10. Describe recent advances in the various therapeutic methods/alternatives used for hepatic and GI diseases.
- a11. Describe recent advances in the structure, mechanism of action, advantages, disadvantages, side effects and complications of the different endoscopic interventions.

- a12. List principles, methodologies, tools and ethics of scientific research.
- a13. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of Tropical medicine and Gastroenterology.
- a14. List the principles and fundamentals of quality assurance of professional practice in the field of Tropical medicine and Gastroenterology.
- a15. Describe the effect of professional practice on the environment and the methods of environmental development and maintenance.
- a16. List the recent advance in data collection presentation and analysis in the field of Tropical medicine and Gastroenterology.
- a17. Mention the recent advances in biostatistics and computer.
- a18. Mention the principles of evidence based medicine.
- a19. List the screening of diseases and sensitivity, specificity, and predictive values of screening tests

b) Intellectual Skills

By the end of the study of this doctoral program the candidate should be able to:

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for hepatic and GIT problems.
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for hepatic and GIT problems.
- b3. Conclude research studies that add to knowledge.
- b4. Formulate scientific papers in the area of Tropical medicine and Gastroenterology.
- b5. Evaluate risk in professional practices in the field of Tropical medicine and Gastroenterology.
- b6. Plan to improve performance in the field of Tropical medicine and Gastroenterology.
- b7. Measure hepatic and GI problems and find solutions.
- b8. Have the ability to innovate nontraditional solutions for hepatic and GI problems.
- b9. Criticize scientific discussion based on scientific evidences and proofs.
- b10. Criticize researches related to Tropical Medicine and Gastroenterology.
- b11. Collect and verify data from different sources
- b12. Analyze and interpret the results of research using common statistical tests.
- b13. Innovate and create researches to find solutions to prevalent Tropical Medicine and Gastroenterology problems

c) Professional and Practical Skills

By the end of the study of doctoral program in Tropical Medicine and Gastroenterology the student should be able to:

- c1. Master the basic and modern professional skills in the area of Tropical medicine and Gastroenterology.
- c2. Design and evaluate of medical reports.
- c3. Collect
- c4. and develop methods and tools existing in the area of Tropical medicine and Gastroenterology.
- c5. Perform endoscopic and imaging evaluation of gastrointestinal system.
- c6. Teach junior staff through continuous medical education programs.
- c7. Design new methods, tools and ways of professional practice.

c8. Perform recent advanced technological methods in collection, analysis and interpretation of data of patients

d) General and Transferable Skills

By the end of the study of doctoral program in Tropical medicine and Gastroenterology the Graduate should be able to:

- d1. Present reports in seminars effectively.
- d2. Use appropriate computer program packages.
- d3. Teach others and evaluate their performance.
- d4. Assess himself/herself and identify his personal learning needs.
- d5. Use different sources for information and knowledge.
- d6. Work coherently and successfully as a part of a team and team's leadership.
- d7. Manage scientific meetings according to the available time.

4. Academic Standards

Sohag Faculty of Medicine adopted the general National Academic Reference Standards*(NARS) provided by the national authority for quality assurance and accreditation of education (naqae) for postgraduate programs. This was approved by the faculty council decree No 6854 in its session No 177 Dated: 18/5/2009. Based on these NARS; Academic Reference Standards (ARS) were suggested for this program. These ARS were approved by the faculty council decree No.7528 in its session No.191, dated 15/3/2010. The adoption of NARS and the suggested ARS were approved by University council degree No 587, in its session No.60. Dated 26-12-2011

5. Curriculum Structure and Contents

5.a- Program Duration 7 semesters (3.5 years)

5.b- Program Structure

Subject	hours / W		
	Lectures	Practical	Clinical
First Part (minor):			
Research Methodology	2 hours.	1 hours.	
Biostatistics + Computer	2 hours.	1 hours.	
Primary Medical Report	1 hour.	1 hours.	
Physiology	1 hour.		
Biochemistry	1 hour.		
Pathology	1 hour.		
Microbiology and Immunity	1 hour.		
Parasitology	1 hour.		
Public health & Community Medicine	2 hours.		
Second Part (major):			
Tropical Medicine & Gastroenterology	6.5 hours	6.5 hours	6.5 hours

code	Item	No	%	
b.i	Total credit hours	Compulsory	90	100
		Elective	0	0
		Optional	0	0
b.iii	credit hours of basic sciences courses	7	7.8	

b.iv	credit hours of courses of social sciences and humanities	0	0
b.v	credit hours of specialized courses:	52	57.8
b.vi	credit hours of other course	8	8.9
b.vii	Practical/Field Training	8	8.9%
b.viii	Program Levels (in credit-hours system):		
	Level 1: 1 st part	15	16.7
	Level 2: 2 nd Part	52	57.8
	Level 3: Thesis	15	16.7

6. Program Courses * 10 compulsory courses

Level of Program

Semester...1.....

First Part

a. Compulsory

Course Title	Total No. of credit hours	Number of hours / week		Program ILOs Covered (By No.)
		Lect.	Lab.	
Research Methodology	3	2 hours.	2 hours.	A12,a18,a19,b3b4b10,b15, c1, c6, d5, d6
Biostatistics + Computer	3	2 hours.	2 hours.	A16,a17, b11,b12, c7d2,d5
Primary Medical Report	2	1 hour.	2 hours.	A13,b1,c2,d1
Physiology	1	1 hour.	---	A1a2a3b7c3d5
Biochemistry	1	1 hour.	---	A3b8c3d5
Pathology	1	1 hour.	---	A4b7c3d5
Microbiology and Immunity	1	1 hour.	----	A9b6c3d5
Parasitology	1	1 hour.	----	A9b6c3d5
Public health & Community Medicine	2	2 hours.	---	A15b3c6d6

Second Part

a. Compulsory

Course Title	Total No. of credit hs.	No. of hours /2 week			Program ILOs Covered (By No.)
		Lect.	Prac.	Clin.	
Tropical Medicine & Gastroenterology	52	6.5 hours	6.5 hours	6.5 hours	A2a3a6a7a9a10a11a14b1 b2b5b7, b9, c1c4c5d3d4d7

7. Program Admission Requirements

I- General Requirements.

- Candidate should have either MBBch degree from any Egyptian Faculty of Medicine or Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.
- Candidate should know how to speak & write English well
- Candidate should have computer skills.

- Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree No. (44), dated 6/1/2010.

II- Specific Requirements

- Master degree in Tropical Medicine and Gastroenterology. with at least "Good Rank".

8. Regulations for Progression and Program Completion

Duration of program is 90 credit hours (≥ 7 semesters ≥ 3.5 years), starting from registration till acceptance of the thesis; divided to:

First Part: (15 Credit hours ≥ 6 months ≥ 1 semester):

- Program-related basic science, Research Methodology, Ethics & medical reports, Biostatistics and computer.
- 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 October — 2nd in April after fulfillment of the credit hours.
- At least 60% of the written exam and 60% of the total oral and practical/clinical is needed to pass in each course.
- For the student to pass the first part exam, a score of at least 60% (Level D) in each course is needed.
- Those who fail in one course need to re-exam it only.
- GPA of ≥ 1.3 is needed to pass this level (semester).

Second Part: (50-60 Credit hours ≥ 24 months= 4 semesters):

- Program related specialized science of Tropical Medicine and Gastroenterology courses. At least 24 months after passing the 1st part should pass before the student can ask for examination in the 2nd part.
- Fulfillment of the requirements in each course as described in the template and registered in the log book (8 Credit hours; with obtaining $\geq 75\%$ of its mark) is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; the credit hours of the logbook are calculated as following:
 - Each Cr. Hr.= 60 working Hrs.
 - Logbook= 8 Cr. Hr. X 60 working Hrs = 480 Working Hrs.
 - Collection of working Hrs. is as following:

Activity		Hrs
Grand rounds	اجتماع علمى موسع	٦
Training courses	دورات تدريبية	12/ day
Conference attendance	حضور مؤتمرات علمية داخلي خارجة	١٢/day 18/day
Thesis discussion	حضور مناقشات رسائل	٦
Workshops	حضور ورش عمل	١٢/day
Journal club	ندوة الدوريات الحديثة	٦
Seminars	لقاء علمى موسع	٦
Morbidity and Mortality conference	ندوة تحليل المخاطر المرضية أو الوفاة	٦
Self education program	برنامج التعليم الذاتى	٦

- Two sets of exams: 1st in October - 2nd in April.
- 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 has to re-attend the written exam.

Third Part (Thesis) (15 Credit hours =24-48 months=4-8 semester):

- Documentation of the subject should not be delayed for > 1.5 years after registration.
- Could start after registration and should be completed, defended and accepted after passing the 2nd part final examination, after passing of at least 24 months after documentation of the subject of the thesis and after publishing of at least one paper from the thesis in a specialized peer-reviewed journal.
- Accepting the thesis is enough to pass this part.

9. Methods of student assessments:

Method of assessment	weight	The assessed ILOs
1-Research assignment		- General transferable skills, intellectual skills
2-Written Exams: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	50%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills
3-OSCE/ OSPE	50%	-Practical skills, intellectual skills, general transferable skills
4-Structured Oral Exams		- Knowledge, Intellectual skills, General transferable skills

Assessment schedule:

Part I:

- Biostatistics & Computer: Written Exam (2 hours) + Structured oral Exam+ OSPE
- Research Methodology: Written Exam (2 hours) + structured oral Exam+ OSPE
- Primary medical reports: Written Exam (2 hour) + Structured oral Exam+ OSPE
- Applied physiology and Medical Biochemistry: Written Exam (2 hours) + structured oral Exam.
- Microbiology and Immunity: Written Exam (2 hours) + structured oral Exam.
- Medical Parasitology: Written Exam (2 hours) + structured oral Exam.
- Public health & Community Medicine: Written Exam (2 hours) + structured oral Exam.
- Pathology: Written Exam (2 hours) + structured oral Exam.

Part II:

- Tropical Medicine & Gastroenterology: Two Written Exam (3 hours for each) + one written exam containing commentary (1.5 hours) + OSCE + Structured oral Exam.

10. Evaluation of Program

Evaluator	Tool	Sample
1- Senior students	Questionnaire	7
2- Alumni	Questionnaire	2
3- Stakeholders (Employers)	Questionnaire	3
4- External Evaluator(s) (External Examiner(s))	Reports	1
5- Other		

Course Specifications in Biostatistics and Computer for MD Degree of Tropical Medicine and Gastroenterology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD degree in Tropical medicine and Gastroenterology.
2. Major or minor element of programmes: Minor
3. Department offering the program: Tropical Medicine and Gastroenterology.
4. Department offering the course: Community Medicine and public Health.
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A- Basic Information

Title: Course Specifications in applied biostatistics and Computer for MD Degree in Tropical Medicine and Gastroenterology

Code: COM 0530-300

Title	Lecture	Practical	Total	Credit
biostatistics and Computer	30	30	60	3

B- Professional Information

1- Overall Aims of Course

- To use precisely medical biostatistics and computer programs

2- Intended Learning Outcomes of Courses (ILOs)

a) Knowledge and understanding:

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

- a1. List different programs of analysis of data and statistical packages
- a2. Define the recent advances of sources of data and methods of collection.
- a3. Summarize data, construct tables and graphs
- a4. Calculate measures of central tendency and measures of dispersion
- a5. Describe the normal curves and its uses
- a6. Illustrate selected tests of significance and the inferences obtained from such tests
- a7. Illustrate selected tests of significance for parametric and non parametric inferences
- a8. Identify factor analysis and discrimination analysis

b) Intellectual Skills

By the end of the course, the student is expected to:

- b1. Formulate data from different sources
- b2. Analyze and interpret the results of research using common statistical tests.

c) Professional and Practical Skills:

By the end of the course, the student is expected to:

- c1. Perform recent advanced technological methods in collection, analysis and

Weighting of Assessments

Final-term written examination	50	%
Final Structured Oral Exam	50	%
Total	100	%

Formative only assessments: attendance and absenteeism and Computer search assignments performance.

6- List of References

6.1- Essential Books (Text Books)

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

6.2- Recommended Books

1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.

2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.

3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

6.3- Periodicals, Web Sites, ...etc

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health
WWW. CDC and WHO sites

7- Facilities Required for Teaching and Learning:

- 1- Adequate infrastructure: including teaching clinical places, comfortable desks, good source of aeration, bathrooms, good illumination and safety and security tools.
- 2- Teaching tools: including screens, computers including CD (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.
- 3- Computer programme: for designing and evaluating MCQs.

Course Coordinator: Dr/ Foad Metry Atya

Head of Department: Prof/ Ahmed Fathy Hammed

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course Specifications in Research Methods for MD Degree in Tropical Medicine and Gastroenterology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD degree in Tropical medicine and Gastroenterology.
2. Major or minor element of programs: Minor
3. Department offering the program: Tropical Medicine and Gastroenterology.
4. Department offering the course: Community Medicine and public Health.
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No"317", decree No. "1533" dated 17/12/2018

A- Basic Information

Title: Course Specifications in Research methods for health services for MD Degree in Tropical Medicine and Gastroenterology.

Code: COM 0530-300

Credit hour:

Title	Lecture	Practical	Total	Credit
Research methods	30	30	60	3

B- Professional Information

1- Overall Aims of Course

1. To influence the students to adopt an analytical thinking for evidence based medicine.
2. To use precisely the research methodology in researches

2- Intended Learning Outcomes of Courses (ILOs)

a) Knowledge and Understanding:

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

- a1. Define the recent advances of screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.
- a2. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values.
- a3. Describe the study design, uses, and limitations.
- a4. Describe the recent advances of principles, methodologies, tools and ethics of scientific research.
- a5. Explain the strategies and design of researches.
- a6. Describe bias and confounding.
- a7. Describe sampling techniques and list advantages of sampling
- a8. Identify principles of evidence based medicine.

b) Intellectual Skills

By the end of the course, the student is expected to be allowed to:

- b1. Conduct research studies that add to knowledge.
- b2. Formulate scientific papers in the area of Tropical medicine and Gastroenterology

- b3. Innovate and create researches to find solutions to prevalent Tropical Medicine and Gastroenterology problems
- b4. Criticize researches related to Tropical Medicine and Gastroenterology.

c) Professional and Practical Skills:

By the end of the course, the student is expected to:

- c1. Master the basic and modern research methodology in the area of Tropical medicine and Gastroenterology
- c2. Design new methods, tools, and ways of professional practice.

d) General and Transferable Skills:

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

- d1. Use of different sources for information and knowledge to serve research.
- d2. Work coherently and successfully as a part of a team and team's leadership in conducting researches and field studies.

3- Contents

Topic	No. of hours	Lecture	Tutorial / Practical
Details of epidemiological studies (case control, cohort and cross sectional)	8	4	4
Clinical trials, Quasi experimental study	6	3	3
Bias and errors	6	3	3
Setting a hypothesis	6	3	3
Recent advances in screening	6	3	3
- Evidence – based Medicine:	4	2	2
Concept and examples	4	2	2
Applicability	4	2	2
Scientific writing:	4	2	2
A protocol			
A curriculum			
Setting an objective	2	1	1
- Critical thinking	2	1	1
Formulation of papers	8	4	4
Total	60	30	30
Credit hours	3	2	1

4- Teaching and Learning Methods

4.1- Lectures.

4.2- Computer search assignments

5- Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam (including discussion of log book activities)	- Intellectual skills, Knowledge, General transferable skills
5.4Computer search assignment	-General transferable skills, intellectual skills

Assessment Schedule

Assessment 1	Final written exam	Week: 24
Assessment 2	Final Structured Oral Exam	Week: 24
Assessment 3	Attendance and absenteeism throughout the course	
Assessment 4	Computer search assignment performance throughout the course	

Weighting of Assessments

Final-term written examination	50	%
Final Structured Oral Exam	50	%
Total	100	%

Formative only assessments: Attendance and absenteeism throughout the course

Computer search assignment performance throughout the course

6- List of References

6.1- Essential Books (Text Books)

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- Teaching tools: including screens, computers including CD (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.
- Computer program: for designing and evaluating MCQs.

Course Coordinator: Dr/Foad Metry Atya

Head of Department: Prof/ Ahmed Fathy Hammed

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course Specifications in Primary Medical Reports for MD Degree in Tropical Medicine and Gastroenterology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD degree in Tropical Medicine and Gastroenterology.
2. Major or minor element of program: Minor
3. Department offering the program: Tropical Medicine and Gastroenterology
4. Department offering the course: Forensic Medicine & Clinical Toxicology.
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A- Basic Information

Title: Course Specifications in Medicolegal Reports & Medical Ethics in MD Degree in Tropical Medicine and Gastroenterology.

Code: FOR 0530-300

Credit hour:

Title	Lecture	Practical	Total	Credit
primary medical Reports	15	30	45	2

B- Professional Information

1. Overall Aims of Course

- a. Describe principles of toxicology of different types of poisonous substances and drugs which operate on human body including classification, mechanism of action, clinical features of toxicity, circumstances and diagnosis.
- b. Describe general management of poisoned patient (alert or comatose) and antidotal measures for different drugs and toxic substances.
- c. Provide basic knowledge of different medicolegal aspects of medical practice.
- d. Provide basic knowledge of medical ethics and malpractice.
- e. Describe the theories and principles that govern ethical decision-making, especially of the major ethical dilemmas in medicine.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding:

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

- a1. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of Tropical medicine and Gastroenterology.

b) Intellectual Skills

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

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for poisoned patients.

c) Professional and Practical Skills

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

- c1. Write and evaluate of medical reports

d) General and Transferable Skills

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

d1. Present reports in seminars effectively

3. Contents of the Course:

Topic	No. of hours	Lecture	practical
Definition of poison, classification of poison and factors that influence toxicity	5	2	4
Diagnosis & Management of poisoning including: respiratory support, circulatory support and neurological support	5	2	4
toxicological sampling and permanent infirmity	5	2	4
How to write a toxicological report & How to write death certificate	5	2	4
Obligation of physicians (towards patients, colleagues, community)	5	2	4
Consent, and professional secrecy	5	2	4
Types of malpractice, and items of medical responsibility	5	1	4
Medicolegal aspects of organ transplantation, intersex states, euthanasia, assisted reproduction techniques	5	1	1
Ethical considerations of medical research involving human subjects	5	1	1
Total hours	45	15	30
Credit	2	1	1

4. Teaching and Learning Methods

4.1- Lectures

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam (including discussion of log book activities)	- Intellectual skills, Knowledge, General transferable skills

Assessment Schedule

- 1- Assessment 1: written examination week 24
- 2- Assessment 2: Structured Oral Exam week 24
- 3- Assessment of attendance & absenteeism throughout the course

Weighting of Assessments

Final-term written examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of References

Essential books

Simpson's Forensic Medicine, 13th Edition, by Jason Payne-James, Richard Jones, Steven B Karch, John Manlove. published by Hodder & Stoughton Ltd (2011).

Goldfrank's Toxicologic Emergencies, (9th ed.) by Lewis S. Nelson, Robert S. Hoffman, Mary Ann Howland, Neal A Lewin, Lewis R. Goldfrank, Neal E. Flomenbaum. Published by McGraw-Hill (2011)

Emergency Toxicology, Peter Viccellio, (2nd ed.) Published by Lippincott Williams & Wilkins (1998)

Recommended books

Medical ethics. (1997) Robert M Veatch. 2nd edition. Jones & Bartlett publishers

Periodicals and websites.....etc.

Egyptian journals of forensic medicine and clinical toxicology

International journals of forensic medicine and clinical toxicology

www.sciencedirect.com

<https://emedicine.medscape.com>

<https://www.ncbi.nlm.nih.gov/pmc/>

7. Facilities Required for Teaching and Learning:

1. Adequate infrastructure: including teaching clinical places, comfortable desks, good source of aeration, bathrooms, good illumination and safety and security tools.
2. Teaching tools: including screens, computers including cd (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.
3. Computer Program: for designing and evaluating MCQs.

Course Coordinator: Dr. Soheir Ali Mohamed

Head of Department: Dr. Soheir Ali Mohamed

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course Specification of Medical Physiology & Medical Biochemistry for MD degree in Tropical Medicine and Gastroenterology

University: Sohag

Faculty: Medicine

1. Program on which the course is given: MD degree in Tropical Medicine and Gastroenterology.
2. Major or minor element of program: Minor
3. Department offering the program: Tropical Medicine and Gastroenterology
4. Department offering the course: Medical Physiology & Medical Biochemistry
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No"317", decree No. "1533" dated 17/12/2018

A- Basic Information

Title: Course Specification of Medical Physiology & Medical Biochemistry for MD degree in Tropical Medicine and Gastroenterology.

Code: PHY - BIO 0530-300

Credit hour

Module	Lecture	Practical	Total	Credit
Physiology module	15	--	15	1
Medical Biochemistry module	15	--	15	1

B- Professional Information

1- Aims of the course :

Medical Physiology module

To prepare a physician oriented with the physiology of the G.I. & liver, 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 anaemias, arterial blood pressure regulation, and different types of shock, hypoxia, and cyanosis & pain sensation.

Medical Biochemistry module

By the end of the course the post graduate students should be able to have the professional knowledge of the biochemistry of the hepatobiliary and GI diseases, and be able to apply biochemical tests in the diagnosis and follow up of patients with these diseases.

2- Intended learning outcomes (ILOs):

Medical Physiology module

a) Knowledge and Understanding:

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

- a1. Define the recent advances in the normal structure and function of the liver and gastrointestinal system.
- a2. Describe recent advances in the normal gastrointestinal motility
- a3. Mention recent advances in the normal hepatobiliary and gastrointestinal secretions.

b) Intellectual skills:

By the end of the course, the students is expected to be able to :

b1. Evaluate hepatic and GI problems in the light of efficient physiological bases.

c) Interpret hepatic and GI problem on physiological basis.

d) Professional and Practical Skills:

By the end of the course, the students is expected to be able to :

c1. Design and develop methods and tools for assessment of GI and hepatobiliary physiology.

c2. Train juniors the tools for assessment of GI and hepatobiliary physiology.

e) General and Transferable Skills:

By the end of the course, the students is expected to be able to :

d1. Use different sources for information and knowledge in the field of normal physiology of GI and hepatobiliary systems as self-learning.

d2. Work coherently as a part of a team.

Medical Biochemistry module

a) Knowledge and Understanding:

By the end of the course, the students are expected to be able to:

a1. Describe recent advances in biochemistry of the normal gastrointestinal secretions.

b) Intellectual Skills

By the end of the course, the students are expected to:

b1. Have the ability to innovate non-traditional solutions for hepatic and GI problems based on sound biochemical knowledge.

c) Professional and Practical Skills

By the end of the course, the students are expected to be able to:

c1. Evaluate and develop methods and tools for assessment of biochemistry of GI secretions.

d) General and Transferable Skills

d1. Use different sources of information and knowledge in the field of biochemistry of GI secretions.

3- Contents of the Course:

Medical Physiology module

Topic	Lecture
I- the physiology of G.I. tract:	2
II- the physiology of liver	2
III- regulation of body temperature	2
IV- pain sensation	2
V- body fluids & electrolytes& water balance & PH regulation	2
VI- R.B.Cs, hemoglobin & anemia	2.5
VII- upper respiratory tract, hypoxia & cyanosis. VIII- arterial blood pressure & its regulation, cardiac output, shock, capillary circulation & edema.	2.5

Total	15
Credit	1

Medical Biochemistry module

Title	Lectures
General metabolism: Protein: Amino acids (tyrosine, phenylalanine, tryptophan, glycine , glutamic acid) Urea cycle	3
Hemoglobin metabolism: Synthesis and catabolism Porphyrias	3
Lipid: Bile salts and pigments Fatty liver and lipotropic factor Dyslipoproteinemias	3
Vitamin: Fat soluble vitamins Water soluble vitamins	3
Tumor markers of liver and cancer colon Carcinogenesis and growth factors Apoptosis	1.5
Biochemistry of liver fibrosis Biochemistry of ascites Biochemistry of hepatic encephalopathy	1.5
Total	15
Credit	1

4- Teaching & learning methods:

1- LECTURES.

5- student assessment methods :

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam (including discussion of log book activities)	- Intellectual skills, Knowledge, General transferable skills

Assessment schedule:

- 1- Assessment 1: written examination week 24
- 2- Assessment 2: Structured Oral Exam week 24
- 3- Assessment of attendance & absenteeism throughout the course

Weighting of assessments:

Final-term written examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism

6- List of references:

Physiology module

Guyton and Hall Textbook of Medical Physiology, John E. Hall, 13th edition, Elsevier Health Sciences, 2015.

6.2- Recommended Books

Ganong's Review of Medical Physiology, 25th Edition, McGraw Hill Professional, 2015.

Medical Biochemistry module

6.1- Essential Books (Text Books)

1. Text book of Biochemistry For Medical students 8th edition by DM Vasudevan 2016
2. Harper's illustrated Biochemistry 31 edition by victor Rod well et al 2018

6.2- Recommended Books

1. Lectures notes on clinical Biochemistry, Whitby et al 1993
2. Lippincott's illustrated reviews Biochemistry, Champe, PC, Harvey, RA, 8th edition 2010

6.3- Periodicals, Web Sites, ... etc

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

<http://www.vlib.org/>

www.genome.ad.jp/kegg/regulation.

Findarticle.com

Freemedicaljournals.com

7- Facilities Required for Teaching and Learning:

- 1- Adequate infra structure: including teaching clinical places, comfortable desks, good source of aeration, bathrooms, good illumination and safety and security tools.
- 2- Teaching tools: including screens, computers including CD (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.
- 3- Computer program: for designing and evaluating MCQs.

Course Coordinator:

Physiology module: Dr/ Ahmed Mostafa

Medical Biochemistry module: Dr. Aida Abdeen

Head of Department:

Physiology module: Dr. Nagwa Sayed Ahmed Hassan

Medical Biochemistry module: Dr. Hoda Mostafa

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course Specifications in Medical Microbiology & Immunology in MD Degree in Tropical Medicine and Gastroenterology

University Sohag

Faculty of Medicine

1. Program on which the course is given: MD degree in Tropical Medicine and Gastroenterology
2. Major or minor element of program: Minor
3. Department offering the program: Tropical Medicine and Gastroenterology
4. Department offering the course: Medical Microbiology & Immunology
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A- Basic Information

Title: Course Specifications in Medical Microbiology & Immunology in MD Degree in Tropical Medicine and Gastroenterology

Code: MIC 0530-300

Credit hours

Title	lecture	practical	total	Credit
Medical Microbiology & Immunology	15	15	1

B- Professional Information

1. Overall Aims of Course

By the end of the course the postgraduate student should be efficiently able to have basic knowledge of the microorganisms affecting human beings all over the world and particularly in Egypt and learn to use the knowledge gained from applied microbiology to better understand the pathology, clinical symptoms, complications and the laboratory tests needed for diagnosis of each disease, in particular how to use microbiological testing in determining antibiotic prescription. The student is also expected to acquire advanced knowledge about the structure and function of the immune system and the role of the immune system in health and disease.

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and Understanding:

By the end of the course the student is expected to:

- a1. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of infectious, hepatic and GI diseases.
- a2. List immunological problems on basis of GI, hepatic and infectious diseases.

b) Intellectual Skills:

By the end of the course the student is expected to:

- b1. Plan to improve performance in the field of microbiology of infectious diseases.
- b2. Evaluate GI and hepatic problems on immunological basis.

c) Professional and Practical Skills:

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

c1. Evaluate and develop methods and tools for assessment of microbiology of infectious diseases.

C2. Collect recent advances in laboratory assessment of GI, hepatic and infectious problems.

Topic	No. of hours	Lecture	Tutorial/ Practical
<u>Systematic Bacteriology</u> Gram +ve cocci, Gram –ve cocci	1	1	
Gram +ve bacilli, Gram –ve bacilli	1	1	
<u>General virology</u>	1	1	
<u>Systematic Virology</u> RNA viruses, DNA viruses	1	1	
<u>Mycology</u> Fungal classifications, Opportunistic mycosis & Antifungal drugs	1	1	
<u>Immunology</u> Congenital & Acquired Immunity	1	1	
Transplantation, Tumor Immunology	1	1	
Nosocomiology	1	1	
Bacterial Isolation & Identification	1	1	
Staphylococci	1	1	
Streptococci & Pneumococci	1	1	
Mycobacterium	1	1	
Enterobacteria	0.5	0.5	
Pseudomonas & Yersinia	0.5	0.5	
Bacillus	0.5	0.5	
Clostridium	0.5	0.5	
Vibrios & Brucella	0.5	0.5	
Spirochaetes & Mycology	0.5	0.5	
Total	15	15	
Credit	1	1	

d) **General and Transferable Skills:**

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

d1. Use different sources for information and knowledge in the field of microbiology and immunology of infectious diseases.

3. Contents

4. Teaching and Learning Methods

4.1- Lectures.

4.2- Practical training

4.3- Assignments

5. Student Assessment Methods: Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills

5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam (including discussion of log book activities)	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills

Assessment schedule:

- 1- Assessment 1: written examination week 24
- 2- Assessment 2: Structured Oral Exam week 24
- 3- Assessment 3: OSPE
- 3- Assessment of attendance & absenteeism throughout the course

Weighting of assessments:

Final-term written examination	50%
OSPE	20%
Structured Oral Exam	30%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of References

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

6.2- Essential Books (Text Books)

- Jawetz Medical Microbiology 2016.
- Roitt Essential Immunology.
- Abbas Clinical Immunology
- Alberts Molecular Biology

6.3- Recommended Books

- A coloured Atlas of Microbiology.
- Topley and Wilson, Microbiology

6.4- Periodicals, Web Sites, ... etc

- Microbiology
- Immunology
- <http://mic.sgmjournals.org/>

7. Facilities Required for Teaching and Learning:

- a. Adequate infrastructure: including teaching clinical places, comfortable desks, adequate aeration, bathrooms, good illumination and safety and security tools.
- b. Teaching tools: including screens, computers including CD (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.
- c. Computer program: for designing and evaluating MCQs.

Course Coordinator: Dr. Nahed Fath-Alla Fahmy

Head of Department: Dr. Abeer M. Shenief

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course Specifications of Medical Parasitology in MD Degree in Tropical Medicine and Gastroenterology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD degree in Tropical Medicine and Gastroenterology
2. Major or minor element of program: Minor
3. Department offering the program: Tropical Medicine and Gastroenterology
4. Department offering the course: Medical Parasitology.
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A- Basic Information

Title: Course Specifications in medical Parasitology in MD Degree in Tropical Medicine and Gastroenterology

Code: PAR 0530-300

Credit hours

Title	Lecture	Practical	Total	Credit
Medical Parasitology.	15	15	1

B- Professional Information

1. Overall Aims of Course

By the end of the course the candidate should be provided with the applied parasitological subjects needed to efficiently analyze the endemic and epidemic parasitic crises and proposing a suitable solution. And to be able perform self learning on the basis of evidence based medicine.

2. Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty: the student is to be armed with sufficient knowledge about the human parasites present in Egypt, surrounding countries and basic idea to parasites allover the world. Each student should be perfectly able to recognize the symptoms, geographical distribution, the infective and the diagnostic stages, complications, laboratory tests needed for diagnosis, prescriptions used, control and problem solving concerning the studied parasites and others via practice and self learning.

a) Knowledge and Understanding:

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

- a1. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of parasitic infections.
- a2. List hepatic and GI diseases based on parasitic infections.

b) Intellectual Skills:

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

- b1. Plan to improve performance in the field of Tropical medicine and Gastroenterology on sound parasitological background.
- b2. Analyze hepatic, GI problems and link them to parasites.

c) Professional and Practical Skills:

By the end of the course the student should have the ability to:
 c1. Evaluate and develop methods and tools for assessment of parasitic infections.
 c2. Teach methods of different parasitic tests.

d) General and Transferable Skills:

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

- d1. Use different sources for information and knowledge in the field of parasitic diseases.
- d2. Work coherently and successfully as a part of a team.
- d3. Can collect recent researches and studies as self learning.

3. Contents

Topic	Total	Lecture	Tutorial/ Practical
Protozoa:			
Plasmodium, Toxoplasma, amoeba	3	3	
Opportunistic parasites	3	3	
Immunology of protozoa	3	3	
Arthropodes of medical importance	3	3	
Helminthes: Trematodes, Cestodes and nematodes	1.5	1.5	
Immunology+ laboratory tests	1.5	1.5	
Total	15	15	
Credit	1	1	

4. Teaching and Learning Methods

- 4.1- Lectures.
- 4.2- Practical training
- 4.3- Assignments

5. Student Assessment Methods: Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2- Written Exam: - Short essay: 40% - structured questions: 25% - MCQs: 20% - Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3- Structured Oral Exam (including discussion of log book activities)	- Knowledge, Intellectual skills, General transferable skills
5.4- OSPE	- Practical skills, intellectual skills

ASSESSMENT SCHEDULE:

- 1- Assessment 1: written examination week 24
- 2- Assessment 2: Structured Oral Exam week 24
- 3- Assessment 3: OSPE
- 3- Assessment of attendance & absenteeism throughout the course

WEIGHTING OF ASSESSMENTS:

Final-term written examination	50%
OSPE	20%
Structured Oral Exam	30%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of References

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

6.2- Essential Books (Text Books):

- Brown HW & Neva FA (1994): Basic Clinical Parasitology.
- Beaver PC, Jung RC and Cupp EW (1984): Clinical Parasitology.

6.3- Recommended Books

- Cook GC (2001): Manson's Tropical Diseases, 21st Edition
- Wakelin D (2003) Immunity to Parasites.

6.4- Periodicals:

Journal of Egyptian Society of Parasitology.

Journal of Tropical Medicine and Hygiene.

Web Sites:

- a. Trends in Parasitology
- b. Parasitology
- c. Experimental Parasitology
- d. Molecular and Biochemical Parasitology
- e. Parasite Immunology
- f. Journal of Parasitology
- g. Transactions of the Royal Society of Tropical Medicine and Hygiene

7. Facilities Required for Teaching and Learning:

- a. Adequate infrastructure: including teaching clinical places, comfortable desks, adequate aeration, bathrooms, good illumination and safety and security tools.
- b. Teaching tools: including screens, computers including CD (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.
- c. Computer program: for designing and evaluating MCQs.

Course Coordinator: Dr. Aml Mostafa

Head of Department: Dr. Hana El Hadi

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course Specification of Pathology in MD Degree in Tropical Medicine and Gastroenterology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD degree in Tropical Medicine and Gastroenterology
2. Major or minor element of program: Minor
3. Department offering the program: Tropical Medicine and Gastroenterology
4. Department offering the course: Pathology
5. Academic year / Level: first part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specification of pathology in MD degree in Tropical Medicine and Gastroenterology

Code: PAT 0530-300

Credit hours

Title	Lecture	Practical	Total	Credit
pathology	15	--	15	1

B. Professional Information

1. Overall Aims of Course

By the end of the course the post graduate students should be able to have the professional knowledge of the pathology of GI, hepatic and infectious diseases.

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and Understanding:

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

- a1. List the recent advances in the abnormal function of GI and hepatobiliary systems.
- a2. Enumerate recent advances in the common diagnostic pathologic techniques necessary to establish diagnosis of hepatic, infectious and GI diseases.

b) Intellectual Skills:

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

- b1. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for infectious, hepatic and GI problems.
- b2. Identify abnormal structure of the hepatobiliary and GI systems.

c) Professional and Practical Skills:

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

- c1. Evaluate and develop methods and tools for assessment of pathology of GI tract.
- c2.

d) General and Transferable Skills

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

- d1. Use appropriate computer program packages.

d2. Use different sources for information and knowledge in the field of pathology of infectious disease.

3. Course Contents:

Topic	No. of hours	Lecture	Practical
1- General Pathology:			
1.1. Inflammation & disturbances of circulation.	2.5	2.5	
1.2. Immunity and infectious diseases.	2.5	2.5	
2- Gastrointestinal tract:			
2.1. Gastritis, peptic ulcers.	1	1	
2.2. Inflammatory bowel disease	1	1	
2.3. Malabsorption syndrome.	1	1	
2.4 Typhoid fever and bacillary dysentery.	1	1	
3- Liver and biliary passages.	1	1	
3.1. Hepatitis and liver cirrhosis.	1	1	
3.2. Portal hypertension and liver cell failure.	1	1	
3.3. Jaundice and cholestasis.	1	1	
4- Diseases of blood, lymph nodes, and spleen:			
4.1. Leukemia.	1	1	
4.2. Lymphomas.	1	1	
Total	15	15	
Credit	1	1	

4. Teaching and Learning Methods

- 4.1. Lectures.
- 4.2. Gross and histopathology (Jars & slides).

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam (including discussion of log book activities)	- Intellectual skills, Knowledge, General transferable skills

ASSESSMENT SCHEDULE:

- 1- Assessment 1: written examination week 24
- 2- Assessment 2: Structured Oral Exam week 24
- 3- Assessment of attendance & absenteeism throughout the course

WEIGHTING OF ASSESSMENTS:

Final-term written examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of References

6.1- Essential Books (Text Books):

- Muir's text book of pathology, 15th edition, 2014
- Robbins pathologic basis of diseases, 10th edition, 2017

6.2- Recommended Books:

- Rosi & Ackerman text book of pathology, 11th edition, 2017
- Sternberg text book of pathology, 6th edition, 2015

6.3- Periodicals, websites:

American journal of pathology

Pathology journal

Human pathology journal

Web Sites: <http://www.ncbi.nlm.nih.gov/pubmed/>

7. Facilities Required for Teaching and Learning:

- a. Library & textbooks.
- b. Computer & data show.
- c. Internet connection.

Course Coordinator: Dr/ Eman Muhammad Salah El Deen

Head of Department: Dr / Afaf Al-Nashar

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course Specifications of Community Medicine and public Health for MD Degree in Tropical Medicine and Gastroenterology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD Degree in Tropical Medicine and Gastroenterology
2. Major or minor element of program: Minor
3. Department offering the program: Tropical Medicine and Gastroenterology
4. Department offering the course: Community Medicine and public Health
5. Academic year / Level: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specifications in Community Medicine and public Health in MD Degree in Tropical Medicine and Gastroenterology

Code: COM 0530-300

Credit hours

Title	Lecture	Practical	Total	Credit
Community Medicine and public Health	30	--	30	2

B. Professional Information

1. Overall Aims of the Course

1. To prepare a community-oriented physician capable of anticipating and responding to community health needs according to the policies, regulations, and guidelines of the MOHP.
2. To develop a post-graduate candidate able to take leadership in motivating the community served as regard the preventive aspects concerning the environment-based health problems.
3. To influence the post-graduate candidate to adopt a healthy lifestyle and sound behaviors to become role models for the individuals, their families and the communities they will serve in the future.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding:

By the end of the course, the post-graduate is expected to be able to:

- a1. Mention the effect of professional practice on the environment and the methods of environmental development and maintenance.
- a2. Illustrate different environmental problems that affect GI, hepatic and infectious diseases.

b) Intellectual Skills

By the end of the course, the postgraduate candidate is expected to be allowed to:

- b1. Conduct research studies, that adds to knowledge and help community development.
- b2. Criticize studies that help community development.
- c) **Professional and Practical Skills:**
By the end of the course, the student is expected to:
 - c1. Design new methods, tools and ways of professional practice to help solving community problems.
 - c2. Perform studies on the community that help in solving problems.
- d) **General and Transferable Skills:**
By the end of the course, the student is expected to be able to:
 - d1. Work coherently and successfully as a part of a team and team's leadership to help community development
 - d2. Write structural reports on community problems.

3. Contents

Topic	Lectures
Environment: - Terminology - Elements of environmental sanitation Town planning Housing; urban and rural Water sanitation Sewage disposal Refuse disposal (including dangerous ones) Air pollution Earth pollutants Climatic changes Pollution caused by Radiation Food sanitation Rodent and insect control Sterilization and disinfection	15
Environmental risk factors of non- communicable diseases Cancer	5
Community surveys, convoys and surveillance	5
Investigation of an epidemic, the attack rates	5
Total	30
Credit	2

4. Teaching and Learning Methods

- 4.1- Lectures
- 4.2- Computer search assignment

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam (including	- Intellectual skills, Knowledge, General

discussion of log book activities)	transferable skills
5.4 Computer search assignment	-General transferable skills, intellectual skills

ASSESSMENT SCHEDULE:

- 1- Assessment 1: written examination week 24
- 2- Assessment 2: Structured Oral Exam week 24
- 3- Assessment of attendance & absenteeism throughout the course

WEIGHTING OF ASSESSMENTS:

Final-term written examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of References

6.1- Essential Books (Text Books)

1-Maxy-Rosenau Public health and preventive medicine, 2008., Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

6.2- Recommended Books

1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.

2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.

3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

6.3- Periodicals, Web Sites, ...etc

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

3- WWW. CDC and WHO sites

7. Facilities Required for Teaching and Learning:

1. Adequate infrastructure: including teaching clinical places, comfortable desks, good source of aeration, bathrooms, good illumination and safety and security tools.
2. Teaching tools: including screens, computers including cd(rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.
3. Computer program: for designing and evaluating MCQs.
4. Transport and full board facilities for students during the community campaigns.

Course Coordinator: Dr/ Foad Metry Atya

Head of Department: Dr/ Ahmed Fathy Hammed

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course Specification of Tropical Medicine and Gastroenterology in MD Degree in Tropical Medicine and Gastroenterology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MD Degree in Tropical medicine and Gastroenterology.
2. Major or Minor element of program: Major
3. Department offering the program: Tropical Medicine and Gastroenterology.
4. Department offering the course: Tropical Medicine and Gastroenterology.
5. Academic year / Level: 2nd part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course Specification Tropical Medicine and Gastroenterology in MD Degree in Tropical Medicine and Gastroenterology.

Code: TRO 0530-300

Credit hours

Title	Lecture	Clinical	Total	Credit
Tropical Medicine and Gastroenterology	390	780	1170	52

B. Professional Information

1. Overall Aims of Course

By the end of the course of Internal Medicine, the student should be qualified as a specialist, who is able to:

1. To have basic knowledge about fevers and their causes.
2. To have basic knowledge about etiology, pathogenesis, clinical picture, complications and management of infectious diseases prevalent in different geographical areas.
3. To understand the most common gastrointestinal and hepatic diseases especially those prevalent in our country and be able to diagnose and manage them.
4. To be able to teach medial students the symptomatology of gastrointestinal system and how to analyze them to reach a provisional diagnosis...
5. To be able to teach medical students the basic knowledge about different methods of clinical examinations of patients and details of abdominal examination
6. To have a basic knowledge about different laboratory tests used for diagnosis of common gastrointestinal problems (stool examination, complete blood count, liver function tests) and to be able to interpret their results.
7. To have a basic knowledge about radiology of the hepatobiliary system and the GI tract.
8. To graduate a specialist able to make a decision and guide junior physicians in gastroenterologic, hepatic and infectious problematic cases.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding:

By the end of the course, the student is expected to:

- a1. Describe recent advances in the normal gastrointestinal motility.

- a2. Describe recent advances in the normal gastrointestinal secretions.
- a3. Describe recent advances in therapeutic intervention in hepatology and gastroenterology
- a4. Enumerate methods of promoting GIT health and preventing their illness.
- a5. List the clinical picture and differential diagnosis of febrile illnesses.
- a6. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of hepatic and GI diseases.
- a7. Describe recent advances in the various therapeutic methods/alternatives used for hepatic and GI diseases.
- a8. Describe recent advances in the different hepatobiliary and GI endoscopic interventions.
- a9. List the principles and fundamentals of quality assurance of professional practice in the field of Tropical medicine and Gastroenterology.

b) Intellectual Skills:

By the end of the course, the student is expected to:

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for infectious, hepatic and GI problems.
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for hepatic and GI problems.
- b3. Assess risk in professional practices in the field of Tropical medicine and Gastroenterology.
- b4. Identify hepatic and GI problems and find solutions.
- b5. Manage scientific discussion based on scientific evidences and proofs.

c) Professional and Practical Skills:

By the end of the course, the student is expected to:

- c1. Master the basic and modern professional skills in the area of Tropical medicine and Gastroenterology
- c2. Perform endoscopic and imaging evaluation of gastrointestinal system.
- c3. Train junior staff through continuous medical education programs.

d) General and Transferable Skills:

By the end of the course, the student is expected to:

- d1. Teach others and evaluate their performance.
- d2. Assess himself and identify his personal learning needs.
- d3. Manage scientific meetings according to the available time.

3. Contents

Title	Total hours	Lectures	Cinical
Introduction on Fevers , pathogenesis and PUO	30	10	20
Nosocomial infections	15	5	10
Infection in the immunocompromised host	15	5	10
Common viral infections, encephalitis, rabies, HIV	45	15	30
Bacterial infections: salmonella, brucellosis, Tuberculosis, meningitis, pneumonias, clostridial infections, diphtheria, Ocholera, shigellosis	45	15	30
Rickettsial diseases and spirochetel diseases	15	5	10

Parasitic diseases Helminthes (trematodes, cestodes and nematodes)	45	15	30
Protozoal diseases: amoebiasis, giardiasis, malaria, toxoplasmosis, Leishmaniasis	45	15	30
Chemotherapy of infections	30	10	20
Gastroenterology and Hepatology Diseases of the esophagus (GERD, motility disorders and carcinoma)	30	10	20
Diseases of the stomach and Oduodenum (acute and chronic gastritis, peptic ulcer, gastric neoplasia)	45	15	30
Diseases of the small intestine and colon	30	10	20
Malabsorption	30	10	20
Updates in inflammatory bowel diseases	30	10	20
Acute and chronic pancreatitis and pancreatic neoplasms	15	5	10
Diseases of the peritoneum	15	5	10
Upper and lower GIT bleeding	45	15	30
Gastrointestinal endoscopy	45	15	30
Anatomy and physiology of the liver and biliary tract	30	10	20
Liver biopsy	15	5	10
Haematology and the liver	15	5	10
Hepatocellular failure	30	10	20
Hepatic encephalopathy	15	5	10
Acute viral hepatitis	30	10	20
Chronic hepatitis (viral and non-viral)	45	15	30
Liver cirrhosis	45	15	30
Ascites	30	10	20
Infections of the liver (other than viruses)	15	5	10
Jaundice	15	5	10
Cholestasis	15	5	10
Portal hypertension	15	5	10
Primary biliary cirrhosis	12	4	8
Sclerosing cholangitis	9	3	6
The hepatic artery and hepatic veins	9	3	6
Drugs and the liver	15	5	10
Nutritional and metabolic liver diseases	15	5	10
Cysts and congenital biliary abnormalities	9	3	6
The liver in pregnancy	9	3	6
Alcohol and the liver	6	2	4
Iron overload states and Wilson's disease	6	2	4
Hepatic tumours	9	3	6
Infections and stones of the biliary system	9	3	6

Biliary tumours	6	2	4
The liver in infancy and childhood	9	3	6
Hepatic transplantation	9	3	6
Laboratory tests for assessment of GIT and hepatobiliary system	9	3	6
Radiology of the GIT and hepatobiliary system	15	5	10
Abdominal ultrasonography	15	5	10
Anatomy and physiology of the spleen	9	3	6
Splenomegaly and hypersplenism	15	5	10
Anaemias	30	10	20
Myeloproliferative disorders	15	5	10
Lymphomas and Leukaemias	15	5	10
Nutritional disorders	30	10	20
Total	1170	390	780
Credit hours	52	26	26

4. Teaching and Learning Methods

- 4.1- Illustrated lectures and case studies.
- 4.2- Clinical rounds on patients.
- 4.3- Clinical rounds with guided clinical case-taking
- 4.4- Interactive presentations (lectures with discussion)
- 4.5- Clinical simulations and emergency drills by manikains and models.

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2- Log book	- General transferable skills
5.3-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.4-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.5-OSCE	-Practical skills, intellectual skills General transferable skills

Assessments schedule:

Assessment 1.... log book (formative exam)	Week: 80
Assessment 2.... Final written exam	Week: 96
Assessment 3.....Final OSCE	Week: 96
Assessment 4 ... Final Structured Oral Exam ...	Week: 96

Weighting of Assessments

• Final Written Examination.	Separate exam.
Passing in the written exam is a condition to attend the following exams:	
• Structured Oral Exam.	50 %
• OSCE	50 %
Total	100%

Formative only assessment: simple research assignment, log book, attendance and absenteeism.

6. List of References:

6.1- course notes:

Lectures notes prepared by the staff members in the department.

6.2- Essential Books (Text Books)

- Current diagnosis & Treatment in Gastroenterology.
- Sheilla Sherlock and James Dooley . Diseases of the liver and biliary system
- Hunter's Tropical Medicine and Emerging Infectious Diseases

6.3- Recommended Books

Oxford textbook of hepatology.

6.4- Periodicals, Web Sites :

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

<http://www.google.com>

<http://Freemedicaljournals.com>

7. Facilities Required for Teaching and Learning:

- 1- Adequate infrastructure: including teaching clinical places, comfortable desks, good source of aeration, bathrooms, good illumination and safety and security tools.
- 2- Teaching tools: including screens, computers including CD (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.
- 3- Computer program: for designing and evaluating MCQs.

Course Coordinator: Dr/ Mahmoud Saif Al-Islam Abd Elfatah.

Head of Department: Dr/ Ghada M. Kamal

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