

## **Peer Revision**

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

# Program Specification of Master Degree in Tropical Medicine and Gastroenterology

Sohag University

Faculty of Medicine

## A. Basic Information

1. Program Title: Master degree in Tropical medicine and Gastroenterology
2. Program Type: Single  Double  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/ Safa Khalaf
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 with the medical knowledge and skills essential for the practice of Tropical Medicine and Gastroenterology and necessary to gain further training and practice in the same field.

1. Scientific knowledge essential for practice of Tropical medicine and Gastroenterology according to the international standards.
2. Skills necessary for proper diagnosis and management of patients including diagnostic, problem solving and decision making skills.
3. Provision of sound ethical principles related to medical practice.
4. Active participation in community needs assessment and problems solving.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Maintenance of research interest and abilities.

### 2- Attributes of the post graduate:

1. Mastering the basics of scientific research methodologies.
2. The application of the analytical method and used in the field of Tropical Medicine & Gastroenterology.
3. The application of specialized knowledge and integrate it with the relevant knowledge in practice.
4. Be aware of the problems and has modern visions in the field of Tropical Medicine & Gastroenterology.
5. Identify problems in the field of Tropical Medicine & Gastroenterology and find solutions to them.



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### 2- Attributes of the post graduate:

1. Mastering the basics of scientific research methodologies.
2. The application of the analytical method and used in the field of Tropical Medicine & Gastroenterology.
3. The application of specialized knowledge and integrate it with the relevant knowledge in practice.
4. Be aware of the problems and has modern visions in the field of Tropical Medicine & Gastroenterology.
5. Identify problems in the field of Tropical Medicine & Gastroenterology and find solutions to them.
6. Mastery of professional skills in this specialty and use of the appropriate recent technologies supporting these skills.

7. Communicate effectively and the ability to lead work teams.
8. Decision-making in his professional contexts.
9. To employ and preserve the available resources to achieve the highest benefit.
10. Awareness of his role in the community development and preservation of the environment at the lights of both international and regional variables.
11. Reflects the commitment to act with integrity and credibility, responsibility and commitment to rules of the profession.
12. Academic and professional self development and be capable of continuous learning.

### **3- Program Intended Learning Outcomes (ILOs):**

#### **a) Knowledge and Understanding:**

By the end of the study of Master Degree in Tropical Medicine and Gastroenterology the Graduate should be able to:

- a1. Mention the normal structure and function of the gastrointestinal system
- a2. Enumerate the normal gastrointestinal motility
- a3. Enumerate the normal gastrointestinal secretion
- a4. List the abnormal gastrointestinal and hepatobiliary functions
- a5. Describe regulation of the normal body temperature
- a6. Describe therapeutic intervention in hepatology and gastroenterology
- a7. Enumerate Methods of promoting GIT health and preventing their illness.
- a8. List the clinical picture and differential diagnosis of febrile illnesses.
- a9. Enumerate common diagnostic and laboratory techniques necessary to establish diagnosis of hepatic and GIT diseases
- a10. Describe the various therapeutic methods/alternatives used for hepatic and GIT diseases.
- a11. Describe scientific developments in the field of Tropical medicine and Gastroenterology
- a12. Mention the mutual influence between professional practice and its impact on the environment.
- a13. Mention the ethical and legal principles of professional practice in the field of Tropical medicine and Gastroenterology
- a14. List the principles and fundamentals of quality of professional practice in the field of Tropical Medicine and Gastroenterology
- a15. List the basis and ethics of scientific research

#### **b) Intellectual Skills**

By the end of the study of Master Degree in Tropical Medicine and Gastroenterology the Graduate 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. Link between knowledge for professional problem solving
- b4. Conduct a research study and / or write a scientific study on a research problem.
- b5. Assess risk in professional practice in the field of Tropical Medicine and Gastroenterology
- b6. Plan to improve performance in the field of Tropical Medicine and Gastroenterology

- b7. Identify gastrointestinal and hepatic problems and find solution
- b8. Analyze research and issues related to the Tropical Medicine and Gastroenterology

**c) Professional and Practical Skills**

By the end of the study of Master Degree in Tropical Medicine and Gastroenterology the Graduate should be able to

- c1. Master the basic and modern professional skills in the area of Tropical Medicine and Gastroenterology
- c2. Write and evaluate medical reports.
- c3. Assess methods and tools existing in the area of Tropical Medicine and Gastroenterology

**d) General and Transferable Skills**

By the end of the study of Master Degree in Tropical Medicine and Gastroenterology the Graduate should be able to:

- d1. Communicate effectively by all types of effective communication
- d2. Use information technology to serve the development of professional practice.
- d3. Assess himself and identify personal learning needs
- d4. Use different sources to obtain information and knowledge
- d5. Develop rules and indicators for assessing the performance of others.
- d6. Work in a team, and team's leadership in various professional contexts.
- d7. Manage time efficiently
- d8. Learn himself continuously

**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 6 semesters (3 years)

5.b- Program structure

Subject	hours		
	Lectures	Practical	Clinical
<u>First Part:</u>			
Physiology	2	---	---
Biochemistry	2	---	---
Pathology	1	1	---
Microbiology and Immunity	1	1	---
Parasitology	2	1	---
Public health & Community Medicine	\	1	---
Research Methodology and Biostatistics + Computer	1	1	

<u>Second Part:</u>			
Tropical Medicine & Gastroenterology	4	---	6
Internal medicine	2		1

code	Item	No	%	
b.i	Total credit hours	Compulsory	50	100
		Elective	0	0
		Optional	0	0
b.iii	credit hours of basic sciences courses	11	22	
b.iv	credit hours of courses of social sciences and humanities	0	0	
b.v	credit hours of specialized courses:	21	42	
b.vi	credit hours of other course	7	14	
b.vii	Practical/Field Training	0	0	
b.viii	Program Levels (in credit-hours system):			
	Level 1: 1 <sup>st</sup> part	10	20	
	Level 2: 2 <sup>nd</sup> Part	24	48	
	Level 3: Thesis	6	12	

## 6- Program Courses

\*9 courses are compulsory

Semester...1.....

### First part

#### a. Compulsory

Course Title	No. of hours	No. of hours			Program ILOs Covered (By No.)
		Lect.	Prac.	Clin.	
Medical Physiology	2	2	---	---	A1a2a3a5b7c3d4
Medical Biochemistry	2	2	---	---	A1b8c3d5
Pathology	2	1	2	---	A4b7c3d5
Microbiology and Immunity	2	1	2	---	A9b2c3d4
Medical Parasitology	3	2	3	---	A9b8c3d5
Public health & Community Medicine	2	1	2	---	A15b3c3d6
Research Methodology and Biostatistics + Computer	2	1	2		a4,a5,a6,a7,a8,a9,b1,b2,b3,b4,b5,b6,b7,b8,c1,c2,c3,d1,d2,d3,d4,d5,d6,d7

### Second Part

#### a. Compulsory

Course Title	No. of hours	No. of hours			Program ILOs Covered (By No.)
		Lect.	Prac.	Clin.	
Tropical Medicine & Gastroenterology	21	4	---	6	A4a5a6a7a8a9a10a11a14b1b2b5b4b7c1c2d3d4d5d7d8
Internal medicine	3	2		2	A8 a10b2c3d3

## 7- Program Admission Requirements

## **I- General Requirements.**

1. Candidate should have either:
  - i. MBBch degree from any Egyptian Faculty of Medicine or
  - ii. Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.
2. Candidate should pass the house office training year.
3. Those who are not university hospital residents should pass training for at least 12 months in one of the known hospitals.
4. Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree No. (44), dated 6/1/2010.

## **II- Specific Requirements.**

Candidates graduated from Egyptian Universities should have at least "Good Rank" in their final year/ cumulative year's examination, and grade "Good Rank" in Internal Medicine course too.

1. Candidate should know how to speak & write English well
2. Candidate should have computer skills

## **8- Regulations for Progression and Program Completion**

Duration of program is 50 credit hours ( $\geq 4$  semesters  $\geq 3$  years), starting from registration till 2<sup>nd</sup> part exam; divided to:

### **First Part: (15 Credit hours $\geq 6$ months $\geq 1$ semester):**

- Program-related basic & clinical sciences & 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 1<sup>st</sup> part.
- Two sets of exams: 1st in October — 2nd in April.
- At least 50% of the written exam 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 for the next time only, and if re-fail, should register for the course from the start.

### **Thesis/Essay(6 Credit hours $\geq 6$ months=1 semester):**

- Completion of the 1<sup>st</sup> part credit hours and passing the exams are pre requisites for documentation of the **Thesis/Essay** subject.
- Should be completed, defended and accepted after passing the 1<sup>st</sup> part examination, and at least one month before allowing to enter 2<sup>nd</sup> part final examination.
- Accepting the thesis is enough to pass this part.

### **Second Part: (24 Credit hours $\geq 18$ months= 3 semesters):**

- Program related specialized sciences of Tropical Medicine and Gastroenterology courses.
- Completion of the 1<sup>st</sup> part credit hours and passing the exams are pre requisites for documentation of the 2<sup>nd</sup> part courses.
- After passing at least:
  - University hospital residents: 36 months residency in the department of Tropical Medicine and Gastroenterology.

Residents in other places: Completed 36 months residency; 12 months of them training in the department of Tropical Medicine and gastroenterology.

- The students should pass the 1<sup>st</sup> part before asking for examination in the 2<sup>nd</sup> part.
  - Fulfillment of the requirements in each course as described in the template and registered in the log book (5 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.
    - 8Logbook= 8 Cr. Hr. X 60 working Hrs = 480 Working Hrs.
    - Collection of working Hrs. is as following:

Activity		Hrs
Grand rounds	اجتماع علمي 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 علمي موسع	٦
Morbidity and Mortality conference	ندوة تحليل المخاطر المرضية أو الوفاة	٦
Self education program	برنامج التعليم الذاتي	٦

- Two sets of exams: 1st in October - 2nd in April.
- At least 50% of the written exam is needed to pass in each course.
- For the student to pass the 2<sup>nd</sup> part exam, a score of at least 60% (Level D) in each course is needed.

#### 9- Methods of student assessments:

Method of assessment	weight	The assessed ILOs
1-Activities		- 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:



- Public health & Community Medicine: Written Exam (2 hours) + Structured oral Exam+ OSPE
- Pathology: Written Exam (2 hours) + Structured oral Exam+ OSPE
- Medical Physiology: Written Exam (2 hours) + Structured oral Exam
- Medical Biochemistry: Written Exam (2 hours) + Structured oral Exam
- Medical Microbiology and Immunology: Written Exam (2 hours) + Structured oral Exam+ OSPE
- Medical Parasitology: Written Exam (3 hours) + Structured oral Exam+ OSPE
- Biostatistics & Computer and Research Methodology: Written Exam (2 hours) + Structured oral Exam+ OSPE

**Part II:**

- Three Written Exam (3 hours for each) two for Tropical Medicine and one for Internal medicine + Structured oral Exam + OSCES

**10- Evaluation of Program**

<b>Evaluator</b>	<b>Tool</b>	<b>Sample</b>
1- Senior students	Questionnaire	8
2- Alumni	Questionnaire	2
3- Stakeholders ( Employers)	Questionnaire	5
4- External Evaluator(s) (External Examiner(s))	Reports	1
5- Other		

# Course Specifications of Community Medicine and public Health for Master Degree of Tropical Medicine and Gastroenterology

**Sohag University**

**Faculty of Medicine**

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

## **A. Basic Information**

**Title:** Community Medicine and public Health  
**Credit Hours:** 2

<b>Lectures</b>		<b>Practical</b>	<b>Tutorial</b>
15 h	(1 hour / week * 15 weeks)	Statistics & problem solving (30 h.)	Nil

**Code:** COM 0530-200.

## **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 within guidelines of the MOHP and according to the policies, regulations, and guidelines of the MOHP.
2. To develop a post-graduate who will apply the knowledge and skills learned, and is 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 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
- a2. Enumerate the mutual influence between professional practice and its impact on the environment.
- a3. List the basis and ethics of scientific research

#### **b) Intellectual Skills**

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

- b1. Link between knowledge for professional problem solving
- b2. Conduct a research study and / or write a scientific study on a research problem.

**c) Professional and Practical Skills:**

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

- c1. Evaluate methods and tools for assesment of community acquired infection
- c2. Master the basic and modern professional skills in community medicine
- c3. Write and evaluate medical reports.

**d) General and Transferable Skills:**

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

- d1. Communicate effectively by all types of effective communication
- d2. Use information technology to serve the development of professional practice
- d3. Assess himself and identify personal learning needs
- d4. Use different sources to obtain information and knowledge
- d5. Develop rules and indicators for assessing the performance of others.
- d6. Work in a team, and team's leadership in various professional contexts.
- d7. Manage time efficiently
- d8. Learn himself continuously.

**3. Contents**

Topic	No of hours for lectures	Practical
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 Environmental risk factors of non- communicable diseases Cancer	15	7.5
Basics of statistics		2.5
Investigation of an epidemic, the attack rates		2
Community surveys, convoys and surveillance		18
<b>Total</b>	<b>15</b>	<b>30</b>

#### 4. Teaching and Learning Methods

4.1- Lectures

4.2- Computer search assignement

#### 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	- Knowledge, Intellectual skills, General transferable skills
5.4 Computer search assignment	-General transferable skills, intellectual skills

#### Assessment schedule:

Assessment 1: written exam

week 24

Assessment 2 Structured Oral Exam

week 24

Assessment 3 Attendance and absenteeism throughout the course, Field convoys participation

Assessment 4 Computer search assignment performance

#### Weighting of Assessments

Final- 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

WWW. CDC and WHO sites

#### 7. Facilities Required for Teaching and Learning:

1. Adequate conditioned space for staff and assistants.
2. Adequate conditioned teaching facilities.

3. Audiovisual Aids: Data show, overhead and slide projectors and their requirements
4. Transport and full board facilities for students during the community campaigns

**Course Coordinator: Dr/Rasha Abd El-Hameed**

**Head of Department: Prof/ Ahmed Fathy Hamed**

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

# Course Specification of Pathology for Master Degree of Tropical Medicine and Gastroenterology

Sohag University

Faculty Medicine

1. Program on which the course is given: Master 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: Tropical Medicine and Gastroenterology 1<sup>st</sup> part of Diploma Degree.
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

## A. Basic Information

Title: Pathology

Code: PAT 0530-200

Credit Hours: 2

Lecture: 15 hours

Tutorial: -

Practical: 30 hrs.

## 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 medical diseases.

### 2. Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

#### a) Knowledge and Understanding:

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

- a1. List the pathological processes affecting the GIT and the Hepatobiliary system.
- a2. Enumerate common diagnostic and pathological techniques necessary to establish diagnosis of hepatic and GIT diseases
- a3. Enumerate scientific developments in the pathology of the gastrointestinal system.

#### b) Intellectual Skills:

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

- b1. Identify abnormal structure of the hepatobiliary and GIT system
- b2. Link between knowledge for professional problem solving
- b3. Identify gastrointestinal and hepatic problems and find solution

#### c) Professional and Practical Skills:

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

- c1. Evaluate methods and tools for assesment of pathology of GIT
- c2. Master the basic and modern professional skills in pathology of GIT

#### d) General and Transferable Skills:

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

- d1. Communicate effectively by all types of effective communication
- d2. Use information technology to serve the development of professional practice

- d3. Assess himself and identify personal learning needs
- d4. Use different sources to obtain information and knowledge
- d5. Develop rules and indicators for assessing the performance of others.
- d6. Work in a team, and team's leadership in various professional contexts.
- d7. Manage time efficiently
- d8. Learn himself continuously.

### 3. Contents

Topic	Total	Lectures	Practical
<b>1- General Pathology:</b>	9	3	6
1.1. Immunity and hypersensitivity.			
1.2. Infectious diseases.			
1.3. Diagnostic cytology.			
<b>2- Gastrointestinal tract:</b>	12	4	8
2.1. Gastritis, duodenitis and enteritis.			
2.2. Peptic ulcers and gastric carcinoma			
2.3. Inflammatory bowel disease			
2.5. Typhoid fever and bacillary dysentery.			
<b>3- Liver and biliary passages.</b>	12	4	8
3.1. Hepatitis and liver cirrhosis.			
3.2. Portal hypertension and liver cell failure.			
3.3. Jaundice and cholestasis.			
<b>5- Diseases of blood, lymph nodes, and spleen:</b>	12	4	8
4.1. Leukemia and myeloproliferative disorders			
4.2. Lymphadenopathy and lymphomas			
<b>Total</b>	45	15	30

### 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	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills

**Assessment schedule:**

Assessment	final written exam	Week 48
Assessment	OSPE	Week 48
Assessment	final Structured Oral Exam	Week 48

**Weighting of Assessments**

Final- written Examination	50%
Structured Oral Examination	30%
OSPE	20%
Total	100%

Formative only assessments: attendance and absenteeism

**6. List of References****6.1- Essential Books (Text Books):**

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

**6.2- Recommended Books:**

- Rosi & Ackerman text book of pathology, 11<sup>th</sup> edition, 2017
- Sternberg text book of pathology, 6<sup>th</sup> 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. Afaf Al- Nashar**

**Head of Department: Dr. Fatma El Zaharaa**

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



# Course Specification of Medical Physiology for Master degree in Tropical Medicine and Gastroenterology

Sohag University

Faculty of Medicine

1. **Program on which the course is given:** MSc. Tropical Medicine
2. **Major or minor element of program:** Minor
3. Department offering the program: Tropical Medicine and Gastroenterology
4. Department offering the course: Medical Physiology
5. Academic year / Level: 1<sup>st</sup> 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** in Master degree in Tropical Medicine and Gastroenterology

Code: PHY0530-200

**Credit Hours:** 2

**Lecture:** 30 hours

**Tutorial:** -

**Practical:** -- hrs.

## B. Professional Information

### 1- Aim of the Course :

to prepare a **tropical medicine** physician oriented with the physiology of the G.I.T & liver , autonomic nervous system , renal physiology & micturition.. Additionally , 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, different types of shock, hypoxia, cyanosis & pain sensation.

### 2- Intended Learning Outcomes (ILOs):

#### a) **Knowledge and Understanding:**

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

- a1. Mention the recent advances in the normal structure and function of the gastrointestinal system.
- a2. Mention recent advances in the normal gastrointestinal motility.
- a3. Mention recent advances in the normal gastrointestinal secretion.
- a4. Mention recent advances in regulation of the normal body temperature

#### b) **Intellectual skills:**

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

- b1. Identify hepatic and GIT problems in the light of physiological bases

#### c) **Professional and Practical Skills:**

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

- c1. Apply methods and tools for assessment of GIT physiology

#### d) **General and Transferable Skills:**

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

- d1. Communicate effectively by all types of effective communication
- d2. Use information technology to serve the development of professional practice

- d3. Assess himself and identify personal learning needs  
 d4. Use different sources to obtain information and knowledge

**3- Contents of the Course:**

Topic	No. of hours for lectures
I-The physiology of G.I.T	2
II-The physiology of the autonomic nervous system	2
III-The physiology of liver	4
IV-Renal physiology and micturition	2
V-Regulation of body temperature	2
VI-Immune reactions	4
VII-Pain sensation	4
VIII-Body fluids & electrolytes& water balance & PH regulation	2
IX-R.B.Cs, hemoglobin & anemia	2
X-Upper respiratory tract , hypoxia & cyanosis.	4
XI-Arterial blood pressure & its regulation , cardiac output , shock , capillary circulation & oedema .	2
<b>Total</b>	<b>30</b>

**4- Teaching & Learning Methods:**

- 4.1-Lectures  
 4.2- Searches in computers (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	- Knowledge, Intellectual skills, General transferable skills
5.4 Computer search assignment	-General transferable skills, intellectual skills

**Assessment schedule:**

- Assessment 1: written examination                      week 22-24  
 Assessment 2: Structured Oral Exam                      week 22-24

**Weighting of assessments:**

Final- written Examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism, Computer search assignment

**6- List of references:**

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

6.2- Recommended Books

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

**7- Facilities Required for Teaching and Learning**

- Appropriate teaching class
- Laboratory equipment and safety

**Course Coordinator:** Dr/ Hoda Mostafa

**Head of Department:** Dr. Hoda Mostafa

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

# Course Specification of Medical Biochemistry for Master degree in Tropical Medicine and Gastroenterology

Sohag University

Faculty of Medicine

1. Program on which the course is given: MSc. Tropical Medicine
2. Major or minor element of program: Minor
3. Department offering the program: Tropical Medicine and Gastroenterology
4. Department offering the course: 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 Biochemistry** in Master degree in Tropical Medicine and Gastroenterology

Code: BIO 0530-200

Credit Hours: 2

Lecture: 30 hours

Tutorial:

Practical: -- hrs.

## B. Professional Information

### 1- Aim of the Course :

By the end of the course the post graduate students should be able to have the professional knowledge of the biochemistry of the tropical medicine diseases, and able to protect and diagnose any vitamin deficiency for any diseases

### 2- Intended Learning Outcomes (ILOs):

#### a) Knowledge and Understanding

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

- a1. Enumerate recent advances in the biochemistry of the normal gastrointestinal secretion

#### b) Intellectual Skills

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

- b2. Have the ability to innovate nontraditional solutions in hepatic and GIT problems based on biochemical knowledge

#### 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 assesment of biochemistry of GIT hormones

#### 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 biochemistry of Git hormones

### 3- Contents of the Course:

<b>Title</b>	<b>No. of hours</b>
<u>Protein</u> Amino acids (Tyrosine, phenylalanine, Tryptophan, Glycine ,Glutamic acid)Urea cycle	4
Hemoglobin metabolism (synthesis, catabolism) Porphyrrias	3
<u>Lipids</u> Bile salts and pigments. Fatty liver and lipotropic factors. Dyslipoproteinemias	4
<u>Vitamins:</u> Water and fat soluble vitamins	4
Tumor markers of the liver	2
Carcinogenesis, growth factors	2
Liver function tests	3
<u>Carbohydrates</u> Diabetes	1
Biochemistry of liver fibrosis	2
Biochemistry of ascites	2
Biochemistry of hepatic coma (encephalopathy)	2
<b>Total</b>	<b>30</b>

### 4- **Teaching & Learning Methods:**

4.1-Lectures

4.2- Searches in computers (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	- Knowledge, Intellectual skills, General transferable skills
5.4 Computer search assignment	-General transferable skills, intellectual skills

### Assessment schedule:

Assessment 1: written examination

week 22-24

Assessment 2: Structured Oral Exam

week 22-24

### Weighting of assessments:

Final- written Examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism, Computer search assignment

### 6- List of references:

#### 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 Rodwell 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, 2007

#### 6.3- Periodicals, Web Sites, ... etc

- <http://www.ncbi.nlm.gov/>
- <http://www.vlib.org/>
- [www.genome.ad.jp/kegg/regulation](http://www.genome.ad.jp/kegg/regulation).
- Findarticle.com
- 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 programme: for designing and evaluating MCQs.

**Course Coordinator:** Dr. Amira Morad Foad

**Head of Department:** Dr. Nagwa Sayed Ahmed Hassan

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

# Course Specifications of Medical Microbiology & Immunology for MSc Tropical Medicine & Gastroenterology

Sohag University

Faculty of Medicine

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

## A. Basic Information

**Title:** Medical Microbiology & Immunology

**Code:** MIC0530-200

**Credit Hours:** 2

**Lecture:** 15 Hs /M.

**Practical:** 30 Hs.

## 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 the common diagnostic and laboratory techniques necessary to establish diagnosis of hepatic and GIT diseases.

#### b- Intellectual Skills:

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

- b1. Select from different microbiological diagnostic alternatives the ones that help reaching a final diagnosis for hepatic and GIT problems. -

#### c- Professional and Practical Skills:

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

c1. Evaluate methods and tools for assessment of microbiology of infectious disease

**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 of infectious disease- Use data analysis and communication skills

**3. Contents**

Each practical round is approximately 1 hour long.

Lectures	No. of hours	Lectures	No. of hours
<u>General Bacteriology</u>		<u>Mycology</u>	
Bacterial structure & pathogenicity	2	Fungal classifications	1
Bacterial genetics	2	Opportunistic mycosis & Antifungal drugs	1
Recombinant DNA technology	2		
Antibiotics	2	<u>Immunology</u>	
Sterilization & Disinfection	2	Congenital & Acquired Immunity	1
<u>Systematic Bacteriology</u>		Immunological Cells	1
Gram +ve cocci	2	Hypersensitivity	1
Gram -ve cocci	1	Transplantation	1
Gram +ve bacilli	1	Tumor Immunology	1
Gram -ve bacilli(1)	1	Immunodeficiency	1
<u>General virology</u>	1	<u>Applied Microbiology</u>	2
<u>Systematic Virology</u>			
RNA viruses	2		
DNA viruses	2		
<u>Total</u>		30	
<b>PRACTICAL SUBJECTS</b>		45	

**4. Teaching and Learning Methods**

- 4.1- Practical teaching.
- 4.2- Department practical class and notes.
- 4.3- Practical lessons.

**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	- Knowledge, Intellectual skills, General transferable skills



### Assessment schedule:

Assessment	final written exam	Week 48
Assessment	clinical exam	Week 48
Assessment	final Structured Oral Exam	Week 48

### Weighting of Assessments

Final- written Examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism

## 6. List of References

### 6.1- Course Notes

Notes of the department and practical notebook  
Prof. Abla Elmeshad

### 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

Data show device for lectures.  
Photos of parasites.  
Laboratory microscopes.

**Course Coordinator:** Dr. Ekram Abd-Elrahman

**Head of the 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 for MSc Tropical Medicine & Gastroenterology

Sohag University

Faculty of Medicine

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

## A. Basic Information

**Title:** Medical Parasitology

**Code:** PAR0530-200

**Credit Hours:** 3

**Lecture:** 30 Hs /M.

**Practical:** 45 Hs.

## B. Professional Information

### 1. Overall Aims of Course

By the end of the course the student should be able to have the professional knowledge of the parasites affecting human beings all over the world and particularly in Egypt, so to be able to efficiently protect, diagnose, treat and advice the parasite victims correctly.

### 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 all over the world Each student should be able to recognize the symptoms, geographical distribution, the infective and the diagnostic stages, complications, laboratory tests needed for diagnosis, prescriptions used and control of the studied parasites.

#### 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 parasitical infections.

#### b) Intellectual Skills:

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

- b1. Have the ability to innovate nontraditional solutions in hepatic and GIT parasitic infection

#### 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 assesment of parasitic infection

#### 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 disease
- d2. Develop rules and indicators for assessing the performance of others.
- d3. Work in a team, and team's leadership in various professional contexts.
- d4. Manage time efficiently
- d5. Learn himself continuously

### 3. Contents

Topic	No. of hours	Practical
Fasciola+ H. heterophyes + Schistosoma + Snails	2	6
Cestoda+ D. latum+ Taenia Echinococcus+ Hymenolepis+ Dipylidium	2	6
Nematoda+ Eterobius+ T. trichura+ Capillaria+ T. spiralis+ Ascaris	2	
Hook worms+ S.stercoralis+ Larva migrans+D. medenensis+ Filarial; worms	4	9
<b>Helminthes total</b>	<b>10</b>	
Dieptera+ Mosquitoes +Phlebotomas+ Myiasis & M. producing flies	2	8
Siphonaptera+ Hemiptera+ Anoplura	2	8
ticks+Mites+ Pentastomida+ Cyclops	2	
<b>Arthropods total</b>	<b>6</b>	
Introduction+ Amoebidae	2	8
Luminal flagellates + Haemoflagellates	2	
Apicomplexa (Malaria + Babesia)	4	
Apicomplexa (Toxoplasma+ others)+ Ciliata+Microsporidia	2	
<b>Total Protozoa</b>	<b>10</b>	
<b>Laboratory tests+ Immunology</b>	<b>4</b>	<b>-</b>
<b>Total</b>	<b>30</b>	<b>45</b>

### 4. Teaching and Learning Methods

- 4.1- Practical teaching.
- 4.2- Department practical class and notes.
- 4.3- Practical lessons.

### 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	- Knowledge, Intellectual skills, General transferable skills

### Assessment schedule:

Assessment	final written exam	Week 48
Assessment	clinical exam	Week 48
Assessment	final Structured Oral Exam	Week 48

### Weighting of Assessments

Final- written Examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism

## 6. List of References

### 6.1- Course Notes

Notes of the department and practical notebook.....

### 6.2- Essential Books (Text Books)

Medical Parasitology.

Essential Parasitology.

### 6.3- Recommended Books

A coloured Atlas of tropical Medicine and Parasitology.

### 6.4- Periodicals:

Journal of Egyptian Society of Parasitology.

Journal of Tropical Medicine and Hygiene.

Web Sites:

Parasitic Diseases: <http://www.mic.ki.se/Diseases/c3.html>

Parasite Images: <http://www.med.cmu.ac.th/dept/parasite/image.htm>

Atlas of Medical Parasitology: <http://www.cdfound.to.it/HTML/atlas.htm>

## 7. Facilities Required for Teaching and Learning

Data show device for lectures.

Photos of parasites.

Laboratory microscopes.

**Course Coordinator: Dr . Aml Mostafa**

**Head of the department: Pro/ Hana El Hadi**

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

## Course Specifications of Applied biostatistics (with computer use) and Research Methodology in Master degree of Tropical Medicine & Gastroenterology

**Sohag University**

**Faculty of Medicine**

1. Program title : Master degree in Tropical Medicine & Gastroenterology
2. Major/minor element of the program : Minor
3. Department offering the course: Community Medicine and public Health Dep.
4. Department offering the program: Tropical Medicine & Gastroenterology
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:** Master degree in Tropical Medicine & Gastroenterology Biostatistics and Computer use for health services **and Research Methodology**

**Code:** COM: 0530-200

### **Total Hours:**

Title	Lectures	Practical/ surgical	Total	credit
Applied biostatistics and computers & Research methodology	15	30	45	2

### **B. Professional Information**

#### **Applied Biostatistics Module:**

##### **1. Overall Aims of Course**

- a. To influence the students to adopt an analytical thinking for evidence based medicine.
- b. To use precisely the research methodology in researches and computer programs SPSS, Epi Info and Excel in data analysis.

#### **Research Methodology Module:**

##### **1. Overall Aims of Course**

The aim of this course is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide further training and practice in the field of Public health and Community Medicine through providing:

1. Recent scientific knowledge essential for the mastery of practice of Public Health and Community Medicine according to the international standards.
2. Skills necessary for preparing for proper diagnosis and management of community problems, skills for conducting and supervising researches on basic scientific methodology.
3. Ethical principles related to the 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. Intended Learning Outcomes of Courses (ILOs)**

**Applied Biostatistics Module:**

**a) Knowledge and understanding:**

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

- a1. Mention 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 be allowed to:

- b1. Mention how to collect and verify data from different sources
- b2. Interpret data to diagnose prevalent problems clinical pathology

**c) Professional and Practical Skills:**

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

- c1. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent problems in clinical pathology

**d) General and Transferable Skills:**

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

- d1. Use appropriate computer program packages.
- d2. Use of different sources for information and knowledge about biostatistics.

**Research Methodology Module:**

**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. Mention 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 able to:

- b1. Conduct research studies that adds to knowledge.
- b2. Formulate scientific papers in the area of public health and community medicine
- b3. Innovate and create researches to find solutions to prevalent community health problems
- b4. Criticize researches related to public health and community medicine

**c) Professional and Practical Skills:**

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

- c1. Enumerate the basic and modern professional skills in conducting researches in the area of public health and community medicine.
- c2. Design new methods, tools and ways of conducting researches. .

**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
<b>Applied Biostatistics Module:</b>			
Recent advances in collection, analysis and interpretation of data	3	1	2
-Details of Tests of significance: Proportion test	3	1	2
-Chi-square test	1.5	.5	1
-Student T test	1.5	.5	1
-Paired T test	1.5	.5	1
-Correlation	1.5	.5	1
-Regression	2	1	1
-ANOVA test	3	1	2
-Discrimination analysis	3	1	2
-Factor analysis	3	1	2
-Parametric and non parametric tests	4.5	.5	4
<b>Research Methodology Module:</b>			
Details of epidemiological studies (case control, cohort and cross sectional )	3	1	2
Clinical trials, Quasi experimental study	3	1	2
Bias and errors	2	1	1
Setting a hypothesis	1.5	.5	1
Recent advances in screening	1.5	.5	1

- Evidence – based Medicine: Concept and examples Applicability Scientific writing: A protocol A curriculum	3	1	2
Setting an objective - Critical thinking	2	1	1
Formulation of papers	1.5	.5	1
<b>Total hours</b>	<b>45</b>	<b>15</b>	<b>30</b>
<b>Total Credit hours</b>	<b>2</b>	<b>1</b>	<b>1</b>

#### **4. Teaching and Learning Methods**

- 4.1- Lectures
- 4.2- Practical sessions
- 4.3- Computer search assignments
- 4.4- Computer application

#### **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 Exams: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills, - Practical skills, intellectual skills
5.3-Structured Oral Exams	- Knowledge
5.4Computer search assignment	- general transferable skills, intellectual skills

#### **Assessment Schedule**

- Assessment 1 ...Final written exam      Week: 24
- Assessment 2 .....Final 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 oral Examination	50%
Total	100%

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

#### **6. List of References**

##### **Applied Biostatistics Module:**

##### **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

### **Research Methodology Module:**

#### **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:**

### **Applied Biostatistics Module:**

- Adequate conditioned space for staff and assistants.
- Adequate conditioned teaching facilities.
- Audiovisual Aids: Data show, overhead and slide projectors and their requirements.

### **Research Methodology Module:**

- ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, good source of aeration, bathrooms, good illumination, and safety & security tools.
- 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.

**Course Coordinator:** Dr/Rasha Abd-Elhameed

**Head of Department:** Dr/Ahmed Fathy Hammed

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

# Course Specifications of Internal Medicine for MSc Degree in Tropical Medicine

University... Sohag

Faculty ...Medicine

1. Program on which the course is given: Tropical Medicine and Gastroenterology, MSc (2<sup>st</sup> part).
2. Minor element (optional) of program.
3. Department offering the course: Internal Medicine
4. Department offering the program: Internal Medicine.
5. Academic year / Level: MSc. Tropical Medicine and Gastroenterology Degree (second part)
6. Date of specification approval: Faculty council No: "317", decree No. "1533" dated 17/12/2018.

## A. Basic Information

**Title:** Internal Medicine for MSc Degree in Tropical Medicine and Gastroenterology

**Credit Hours:** 3 hours

**Lectures:** 30 hours

**Practical:**

**30hours**

**Code: MED0530-200**

## B. Professional Information

### 1. Overall Aims of Course

By the end of the course of Internal Medicine, the candidate should be able to:

- 1- Deal with common medical conditions on the basis of adequate history taking, physical examination, interpretation of relevant supportive investigations and management.
- 2- Deal with acute medical emergencies safely and effectively.
- 3- Identify the indications and logistics of referring patients to higher levels of experience or specialization.
- 4- Perceive and integrate progress in medical technology.

### 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 clinical picture and differential diagnosis of febrile illnesses.
- a2. Enumerate common diagnostic and laboratory techniques necessary to establish diagnosis of internal medicine diseases
- a3. Describe the various therapeutic methods/alternatives used for internal medicine diseases
- a4. Describe scientific developments in the field of internal medicine diseases
- a5. Enumerate the mutual influence between professional practice and its impact on the environment.

#### b) Intellectual Skills

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

- b1. Interpret data acquired through history taking to reach a provisional diagnosis for internal medicine problems.
- b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for internal medicine problems.
- b3. Link clinical data with the results of investigations to solve problem cases.

**c) Professional and Practical Skills**

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

- c1. Evaluate and develop methods and tools for assessment of internal medicine problems
- c2. Master the basic and modern professional skills in the area of Internal medicine and Gastroenterology
- c3. Write a prescription for internal medicine and GIT diseases especially those prevalent in our locality.

**d) General and Transferable Skills**

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

- d1. Communicate effectively by all types of effective communication
- d2. Use information technology to serve the development of professional practice
- d3. Assess himself and identify personal learning needs
- d4. Use different sources to obtain information and knowledge
- d5. Develop rules and indicators for assessing the performance of others.
- d6. Work in a team, and team's leadership in various professional contexts.
- d7. Manage time efficiently
- d8. Learn himself continuously

**3. Contents**

**DETAILED CONTENTS**

**1-Cardiology Teaching**

The cardiology curriculum is designed so that at the end of the course the candidate will be able to:

- 1- Know the principles of cardiovascular anatomy and physiology which are relevant to cardiovascular diseases.
- 2- Know the basic patho-physiological and structural alterations that occur in cardiovascular diseases.
- 3- Know the important causes, presenting features (symptoms, signs and alteration in specific investigations) that may occur in each of the following conditions:
  - Heart failure (acute, chronic, systolic, diastolic)
  - Rheumatic fever, rheumatic heart disease including the affection of the pericardium and cardiac valves.
  - Major dysrhythmias.
  - Causes and management of syncope.
  - Causes, clinical picture and management of infective endocarditis.
  - Coronary artery diseases (pathogenesis, risk factors, clinical features, complications and detail of both prophylactic and curative treatment)
  - The problem of hypertension in Egypt and the importance of all grades of elevated blood pressure also causes and features of essential and secondary hypertension, also methods of treatment and the problem attending the use of antihypertensive drugs.

- The interaction between the lung and the heart and causes, clinical presentation and management of pulmonary embolism and cor pulmonale)
- Properties, uses, and side effects of important cardiovascular drugs used in treatment of common diseases.

**4-Skills:** The graduate should be able to:

- Elicit normal and abnormal cardiovascular signs such as general features, attitude, facies, BP arterial and venous pulse,.....
- Elicit normal and abnormal physical signs in chest and abdominal examination that may cause or accompany or result from cardiac disease such as hepatomegaly, splenomegaly, ascites,.....
- Can perform successfully basic life support and cardiac resuscitation (cardiac massage, mouth to mouth breath) either alone or with a team.
- He should be able to interpret normal and abnormal cardiac shadows in chest Xray.

**Cardiology Teaching (Methodology):**

A combination of strategies are used to reach the above mentioned objects, this include lectures, clinical and self teaching.

- 1- Lectures:** lectures are given to accompany the clinical and the practical teaching. They are designed to cover the salient features, difficult aspects, recent advances not usually incorporated in students text books and specific personal practices of the following subjects:
- 2- Clinical and Practical:** teaching as teaching basics of normal ECG and interpretation of common ECG abnormalities.
- 3- Self teaching:** This includes:
  - a. Personal or group ward responsibilities including follow up of inpatients in the department.
  - b. Cardiology outpatient sessions in which the student examine the patients with the assistant lecturer.

**Contents:**

Topics	No of hours	Lectures	Clinical and Practical
<b>Cardiovascular</b> Symptoms and signs	2	1	1
<b>Rheumatic fever</b>	2	1	1
<b>Infective endocarditis</b>	2	1	1
<b>Valvular diseases</b>	2	1	1
<b><u>Coronary artery diseases</u></b> -Acute coronary syndromes -Chronic ischemia	2	1	1
Systemic Hypertension	2	1	1
Congenital Heart Diseases	2	1	1
<b><u>Cardiomyopathy:</u></b> -dilated cardiomyopathy	2	1	1
<b><u>Arrhythmias:</u></b> -Sinus tachycardia -sinus bradycardia -AF -VT	2	1	1
<b><u>Heart failure</u></b> -Systolic Heart Failure	3	1	2

-Diastolic Heart Failure -High cardiac output heart failure			
<b>-Cor pulmonale</b>	2	1	1
<b>Total</b>	22	11	12

### **2- Endocrinology Teaching**

The curriculum consists of an integrated theoretical, clinical and practical training courses.

#### **Terminal Objectives are:**

1. To know the physiology of endocrine system
2. To know the basic pathophysiological and structural alteration changes that occur in common endocrinal diseases.
3. To know the important presenting features of endocrinal diseases
4. To be able to detect skeletal disproportions and to identify
5. calculate mass index
6. To diagnose various endocrinal emergencies.
7. To know the basics of various investigations of endocrinal diseases.
8. To interpret endocrinal imaging such as X-ray, CT and MRI of different endocrinal organs.

#### **Endocrinology Teaching (Methodology)**

A combination of strategies is used to reach the above mentioned objectives. This includes:

<b>Topics</b>	<b>No of hours</b>	<b>Lectures</b>	<b>Clinical and Practical</b>
Disorders of the anterior pituitary and the hypothalamus, growth axis	1.5	0.5	1
Disorders of the neurohypophysis "Diabetes Insipidus"	0.5	0.5	
<u>Disorders of the thyroid gland</u> Hypothyroidism Hyperthyroidism	2.5	0.5	2
<u>Disorders of the adrenal cortex:</u> -Cushing syndrome -Aldosteronism -Clinical uses of corticosteroids	2	1	1
Diabetes mellitus	2	1	1
Hypoglycemia	1.5	0.5	1
<b>Total hours</b>	<b>10</b>	<b>4</b>	<b>6</b>

### **3- Hematology Teaching**

The curriculum consists of theoretical practical and training courses.

#### **Terminal objectives in teaching hematology are:**

1. To know the physiology of blood cells (RBCs, WBCs and platelets) and homeostasis.
2. To know the anatomy of the lymphatic and hematopoietic organs.
3. 3-To know the important causes, presentation and management of various types of anemias.
4. To examine lymph nodes, liver and spleen and to know causes and management of lymphadenopathy, hepatomegaly, and splenomegaly.
5. To know causes, manifestation and management of bleeding and coagulation disorders.

6. To know causes presentation and management of various hematological malignancies (Leukaemias, lymphomas, plasma cell tumours).
7. To interpret lab investigations as blood picture, bone marrow examination, results of lymph node biopsy, splenic aspirate,.....and tests for coagulation disorders.
8. To know recent advances in treatment of various hematological disorders as bone marrow transplantation, immunological treatment,.....

#### **Hematology Teaching (Methodology):**

A combination of strategies is used to reach the above mentioned objectives. This includes lectures and clinical teaching.

Topics	No of hours	Lectures	Clinical and Practical
Generalized lymphadenopathy	1.5	0.5	1
Anemias;: -Iron deficiency anemia -Megaloplastic anemia -Hemolytic anemias(Acquired) -Aplastic anemia	4	1 0.5 1 0.5	1
Acute leukemias	0.5	0.5	
Lymphomas and chronic leukemia	2	1	1
Disorders of platelets and vessel wall "Thrombocytopenia" -Purpura	1.5	0.5	1
-Coagulation disorders and Anticoagulants	1.5	0.5	0.5
<b>Total hours</b>	<b>10.5</b>	<b>6</b>	<b>4.5</b>

#### **5- Nephrology teaching**

Topics	No of hours	Lectures	Clinical
-Structure and function and investigations Symptomatology of renal diseases	4	0.5	
- <u>Major clinical syndromes in nephrology:</u> . Nephrotic syndrome Acute nephritic syndrome	4	0.5 0.5	1
- <u>Disturbed renal function:</u> . Acute renal failure Chronic renal failure Renal dialysis and Renal transplantation	6	0.5 0.5 0.5	1
- <u>Urinary tract infections:</u> .	2	0.5	-
Total hours	5.5	3.5	2

#### **6- Rheumatology Teaching**

Topics	No of hours	Lectures	Clinical
Sysemic lupus erythromatosis Scleroderma	1.5	0.5	1
Rheumatoid arthritis Seronegative arthriris	1.5	0.5	1
Systemic vasculitis	0.5	0.5	
Totals hours	3.5	1.5	2

## 7- Respiratory Disease Teaching

Topics	No of hours	Lectures	Clinical
COPD	1	0.5	0.5
Pneumonias	1	0.5	0.5
Malignancies in the lung	1	0.5	0.5
Suppurative lung diseases	1	0.5	0.5
Tuberculosis	1	0.5	0.5
Respiratory failure, blood gases interpretation, Chest X-ray	1	0.5	0.5
Pleural effusion	1	0.5	0.5
Totals hours	7.5	4	3.5

### 4. Teaching and Learning Methods

- 4.1- Illustrated lectures
- 4.2- Clinical rounds on patients (twice /week for 8 weeks)
- 4.3- Attendance in outpatients clinic (twice/week for 8 weeks)
- 4.4- Case studies in department conference (once/week for 16 weeks)
- 4.5- Interactive presentations (lectures with discussion)

### 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	- Knowledge, Intellectual skills, General transferable skills
5.4 Computer search assignment	-General transferable skills, intellectual skills

### Assessment schedule:

Assessment	final written exam	Week 48
Assessment	clinical exam	Week 48
Assessment	final oral exam	Week 48

### Weighting of Assessments

Final- written Examination	50%
Oral Examination	50%
Total	100%

Formative only assessments: attendance and absenteeism

## 6. List of References

### 6.1- Course Notes

### 6.2- Essential Books (Text Books)

- Kumar and Clarke Textbook of Medicine; Parveen Kumar and Richard Clark; Blackwell Science; 9<sup>th</sup> edition, 2018

-Hutchison's Clinical Methods; Robert Hutchison; Harry Rainy; 24<sup>st</sup> edition;2018

### **6.3- Recommended Books**

- Goldman-Cecil Textbook of Medicine;25<sup>th</sup> edition, 2018.
- Harrison's principles of internal medicine,20<sup>th</sup> edition, 2018.

### **6.4- Periodicals, Web Sites, ... etc**

## **7. Facilities Required for Teaching and Learning**

- Lecture rooms
- Round rooms
- Accessibility to hospital wards, clinics and emergency department
- Audio-visual teaching equipments (computers, data show projector, video, etc.)
- Models and mannequins
- Video tapes and scientific pictures archives.
- Radiology collections and archives.
- Library for the department.

**Course Coordinator:** Dr. Mohamed Mustafa Ahmed Malak.

**Head of Department:** Prof. Usama Ahmed Arafa.

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



# Course Specifications of Master Degree in Tropical Medicine and Gastroenterology for Tropical Medicine and Gastroenterology

**Sohag University**

**Faculty of Medicine**

1. Program on which the course is given: Master Degree in Tropical Medicine and Gastroenterology
2. Major or Minor element of program: 1<sup>st</sup> and 2<sup>nd</sup> parts
3. Department offering the program: Dept of 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: Tropical Medicine and gastroenterology**

**Code: TRO 0530-200**

**Credit Hours: 21hs**

**Lectures: 180**

**Tutorial/ Practical: 270**

## **B. Professional Information**

### **1. Overall Aims of Course**

1. To have basic knowledge about fevers and its common causes.
2. To have basic knowledge about eatiology, pathogenesis, clinical picture, complications and management of the most common infectious diseases.
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 know the symptomatology of gastrointestinal system and how to analyze them to reach a provisional diagnosis
5. To have a 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 GIT.
8. To graduate a specialist in gastroenterology, hepatology and infectious diseases able to take a decision and guide junior physicians (resident doctors)

## **2. Intended Learning Outcomes of Course (ILOs)**

### **a) Knowledge and Understanding:**

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

- a1. Mention the recent advances in the normal structure and function of the gastrointestinal system
- a2. Mention normal gastrointestinal secretion
- a3. List the recent advances in the abnormal gastrointestinal function, hepatobiliary system
- a4. Describe recent advances in regulation of the normal body temperature
- a5. Describe recent advances in therapeutic intervention in hepatology and gastroenterology.
- a6. Enumerate Methods of promoting GIT health and preventing their illness..
- a7. List the clinical picture and differential diagnosis of febrile illnesses techniques
- a8. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of hepatic and GIT diseases.
- a9. Describe recent advances in the various therapeutic methods/alternatives used for hepatic and GIT diseases.
- a10. Describe recent advances in the structure, mechanism of action, advantages, disadvantages, side effects and complications of the different endoscopic interventions
- a11. 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 should have the ability 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. Assess risk in professional practices in the field of Tropical medicine and Gastroenterology
- b4. To interpret physical findings and correlate them with patient's symptoms.
- b5. Identify hepatic and GIT problems and find solutions.

### **c) Professional and Practical Skills**

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

- c1. Master the basic and modern professional skills in the area of Tropical medicine and Gastroenterology
- c2. Interpret, conclude and discuss data collected from history and examination

### **d) General and Transferable Skills**

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

- d1. Assess himself and identify his personal learning needs
- d2. Work coherently and successfully as a part of a team and team's leadership
- d3. Manage scientific meetings according to the available time
- d4. Manage time efficiently
- d5. Learn himself continuously

### 3. Contents

<b>Title</b>	<b>Lectures</b>	<b>Tutorial/ Practical</b>
Introduction on Fevers, pathogenesis and PUO	4	3
Nosocomial infections	6	6
Infection in the immunocompromised host	6	6
Common viral infections, encephalitis, rabies, HIV	6	6
Bacterial infections: salmonella, brucellosis, Tuberculosis, meningitis, pneumonias, clostridial infections, diphtheria, cholera, shigellosis	8	6
Rickettsial diseases and spirochetal diseases	4	4
Parasitic diseases Helminthes (trematodes, cestodes and nematodes)	8	6
Protozoal diseases: amoebiasis, giardiasis, malaria, toxoplasmosis, Leishmaniasis	8	6
Chemotherapy of infections	4	10
Gastroenterology and Hepatology Diseases of the esophagus (GERD, motility disorders and carcinoma)	4	8
Diseases of the stomach and duodenum (acute and chronic gastritis, peptic ulcer, gastric neoplasia)	6	12
Diseases of the small intestine and colon	10	6
Acute and chronic pancreatitis and pancreatic neoplasms	6	6
Diseases of the peritoneum	2	4
Upper and lower GIT bleeding	10	10
Gastrointestinal endoscopy	4	3
Anatomy and physiology of the liver and biliary tract	4	3
Liver biopsy	2	4
Haematology and the liver	4	8
Hepatocellular failure	4	8
Hepatic encephalopathy	4	8
Acute viral hepatitis	6	6
Chronic hepatitis (viral and non-viral)	6	6
Liver cirrhosis	6	6
Ascites	3	6
Infections of the liver (other than viruses)	6	5
Jaundice	4	5
Cholestasis	6	10
Portal hypertension	8	10
Primary biliary cirrhosis	2	2
Sclerosing cholangitis	2	2
Alcohol and the liver	2	-
Iron overload states and Wilson's disease	4	2

Hepatic tumours	4	7
Infections and stones of the biliary system	4	5
Biliary tumours	2	2
The liver in infancy and childhood	4	3
Hepatic transplantation	4	-
Laboratory tests for assessment of GIT and hepatobiliary system	3	6
Radiology of the GIT and hepatobiliary system	8	5
Abdominal ultrasonography	-	10
Anatomy and physiology of the spleen	3	6
Splenomegaly and hypersplenism	4	8
Anaemias	6	5
Myeloproliferative disorders	4	8
Lymphomas	6	5
Nutritional disorders	4	8
Total	225	270

#### 4. Teaching and Learning Methods

4.1 - Lectures

4.2-practical lessons (ward and class rounds, teaching abdominal sonography, GIT endoscopy).....

4.3-searches in the library for Text Books in case taking, infectious diseases, Gastrointestinal and Hepatobiliary diseases.....

4.4-Web searches

#### 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
5.6 Computer search assignment	-General transferable skills, intellectual skills

#### Assessment schedule:

Assessment	final written exam	Week 48
Assessment	OSCE	Week48
Assessment	final Structured Oral Exam	Week 48

#### Weighting of Assessments

Final- written Examination	50%
Structured Oral Examination	30%
OSCE	20%
Total	100%

Formative only assessments: attendance and absenteeism, Log book

## **6. List of References**

### **6.1- Essential Books (Text Books)**

Hutchison Book for case taking

### **6.2- Recommended Books**

-Current diagnosis & Treatment in Gastroenterology . Sheilla Sherlock and Jamed Dooley. Diseases of the liver and biliary system.

-Hunter's Tropical Medicine and Emerging Infectious Diseases

### **6.3- Periodicals, Web Sites, ... etc**

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

<http://www.google.com>

<http://Freemedicaljournals.com>

## **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 programme: for designing and evaluating MCQs.

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

**Head of Department: Dr/ Ghada M. Kamal.**

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