



COURSE SPECIFICATION

Msc. Tropical medicine –Second part

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course.	Msc. Tropical Medicine (TROP 512 HGIT) (TPOP512 GITC) (TROP512 HEPC)
(2) Department offering the programme.	Tropical Medicine
(3) Department responsible for teaching the course.	Tropical Medicine
(4) Part of the programme.	Second Part – Tropical Gastroenterology and Hepatology
(5) Date of approval by the Department's council	May 2016
(6) Date of last approval of programme specification by Faculty council	9-8-2016
(7) Course title.	Master of science in Tropical medicine (2 nd part)
(8) Course code.	TROP 512 HGIT TROP512GITC

	TROP5 12HEPC
(9) Credit hours	14 credit hour
(10) Total teaching hours	120 hour lectures 120 hour clinical 120 hour field

(B) Professional information

(1) **Course Aims.**

The broad aims of the course are as follows.

- 1- Provide updated knowledge of basic and clinical skills of hepatic, gastrointestinal diseases**
- 2- Getting and updating knowledge from scientific interactions and caring for patients and continued medical education CME in Hepatogastroenterology.**
- 3- Provide training in scientific medical research and communication skills necessary for effective practice**

(2) Intended Learning Outcomes (ILOs):

On successful completion of the course, the candidate will be able to.

A- Knowledge and Understanding

- A1 Discuss basic concepts of immunology, diagnosis, management, prevention and control of hepatic and gastrointestinal disorders
- A2 Recognize the differential diagnosis of common hepatic and gastrointestinal disorders presented in primary health care setting
- A3 Identify relative risks, benefits and outcomes of treatment hepatic and gastrointestinal diseases with emphasis on viral hepatitis
- A4 Describe pathogenesis, diagnosis, management and principles of prevention of life threatening hepatic and gastrointestinal diseases
- A5 Describe geographical distribution, risk factors and principles of disease prevention appropriate for specific patient populations within the community and internationally
- A6 Review basic principles of medical research and medical biostatistics
- A7 Discuss up to date knowledge in hepatic and gastrointestinal diseases from scientific interactions and caring for patients and continued medical education CME.

B- Intellectual skills

- B1. Construct appropriate management strategies (both diagnostic and therapeutic) for patients with hepatic and gastrointestinal diseases with assessment of risk and benefit
- B2. Formulate an initial course of management for patients with serious hepatic and gastrointestinal diseases requiring critical care
- B3. Select appropriate tests for detecting patients at risk for certain hepatic and gastrointestinal diseases or in the early stage of disease and determine strategies for responding appropriately
- B4. Propose clinical decisions regarding diagnosis and management of hepatic and gastrointestinal disorders
- B5. Recognize and cope with uncertainty by using appropriate cognitive and intellectual strategies to deal with uncertainty when it arises and share in scientific research designing and reviewing

C-Professional Practical Skills

- C1. Interpret patient's history, physical symptoms, physical signs and laboratory findings in terms of anatomic, pathologic and functional diagnostic significance
- C2. Predict the most frequent clinical, laboratory, radiologic findings of common hepatic and gastrointestinal diseases with prioritization of the common possibilities for each problem
- C3. Predict the most appropriate diagnostic procedures for each problem and use Evidence Based Medicine in management decisions.
- C4. Perform and interpret the results of commonly used diagnostic procedures such as ECG, abdominal ultrasound, upper and lower gastrointestinal endoscopy, ultrasound guided liver biopsy and how to use these data in the diagnosis, management and follow up of cases and to monitor drug therapy.
- C5. Perform routine technical procedures including at a minimum arterial puncture, inserting a Foley's catheter, thoracentesis and paracentesis
- C6. Perform intervention for certain hepatic disorders including liver abscess and hepatocellular carcinoma
- C7. Apply principles of sterilization and infection control regulations on hospital and community levels
- C8. Organize medical records including: admission sheets, progress notes, referrals for consultation, discharge summaries and follow up notes
- C9. Apply epidemiological methods to the investigation, prevention and control of infectious diseases in developing countries

D- Communication & Transferable skills

- D1. Establish professional relationships with patients, their families characterized by understanding, trust, respect and confidentiality
- D2. Explain medical conditions to the patient and family in a human manner, encourage discussion and promote the patient's participation in decision making
- D3. Manage time and resources effectively and set priorities.
- D4. Work efficiently within the health care team and cope with a changing work environment.
- D5. Solve problems related to patients, work management, and among colleagues.
- D6. Evaluate their work and that of others using constructive feedback.
- D7. Use information and communication technology effectively in the field of medical practice.
- D8 Develop and deliver a teaching module and guide learners in a work setting

(3) Course content.

Subjects	Lectures	Seminars	Field	Clinical
Hepatology Pathophysiology of the liver Approach to patients with liver diseases Clinical consequences of liver disease Liver diseases due to infectious agents Toxin mediated liver injury Immune diseases of the liver Vascular diseases of the liver Inherited diseases of the liver Liver affected by other organs and conditions Tumours of the liver Hepatic Transplantation Management of gallbladder stones	60			40
Gastroenterology CARDINAL MANIFESTATIONS OF GIT DISEASE EVALUATION OF THE PATIENT WITH GIT SYMPTOMS DISORDERS OF THE ALIMENTARY TRACT DISORDERS OF THE PANCREAS NEOPLASTIC DISEASES OF THE GIT OBESITY AND EATING DISORDERS	30			40
Diagnostic and therapeutic Tools ECG (performance and interpretation) Urethral catheterization Nasogastric tube insertion and maintenance Sengstaken-Blakemore tube placement and maintenance Diagnostic & upper GIT endoscopy and colonoscopy Abdominal paracentesis Abdominal ultrasound Liver biopsy Percutaneous HCC chemical ablation	30		120	40

Total credit hours	8		2	4
Total teaching hours	120		120	120

(4)Teaching methods.

4.1. Lectures

4.2. Clinical demonstration and bed side clinical teaching

4.3. observation of bedside diagnostic procedures

4.4. Problem-solving (case study) sessions

4.5. Training for both diagnostic and therapeutic procedures.

(5) Assessment methods.

5.1. Written exam for assessment of...(A1 to A7)

5.2. Oral exam for assessment of.....(A1 to A7) (B1to B5) and D4

5.3. MCQ exam for assessment of.....(A1 to A4)

5.4. OSCE exam foe assesement of.....(B1 to B5) (C1 to C9) and(D1 to D8)

Assessment schedule.

Written exam (50%) 120 marks

MCQ: (20% of written) 30 marks

Oral exam. (25%) 75 marks

OSCE. (25%) 75 marks

Other assessment without marks.

-Log books for presenting clinical cases

(6) References of the course.

- 6.1. Hand books: Handbook of Liver Diseases, A guide to physical examination.
- 6.2. Text books: Diseases of the liver and billiary system by Sheila Sherlock and James Dooley, Oxford text book of clinical hepatology, Sleisenger and Fordtran's gastrointestinal and liver diseases, Harrison's Principle of internal medicine, Cecil Textbook of medicine.
- 6.3. Journals: Journal of Hepatology, Hepatology, Liver, Gut, Journal of digestive disease, Gastro-intestinal endoscopy, Journal of clinical microbiology, Journal of virology.
- 6.4. Websites: <http://www.asp.unl.edu>, <http://www.parasitology.org.uk>, <http://www.dpd.cdc.gov/dpdx>, <http://www.phage.org/black09.htm>, [http://www.microbe.org/microbes/virus or bacterium.asp](http://www.microbe.org/microbes/virus%20or%20bacterium.asp), <http://www.bact.wise.edu/bact330/330Lecturetopics>, <http://www.microbelibrary.org>, <http://www.hepnet.com/hepb.htm>
- 6.5. Others: Lecture CDs available on request.

(7)Facilities and resources mandatory for course completion.

- 1- lecture hall.
- 2- Teatching aid as computer, data show projector, laser pointer.
- 3- Clinical Facilities in tropical unit during field visits including the inpatient rooms, the endoscopy unit and the Ultrasound guided intervention unit.

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Head of the department: Prof. Mahmoud El-Bendary

Date:

