Course specification of clinical pathology for Hepatology master degree

Course Title: clinical pathology of Hepatology
Code: HEPT 717
Department giving the course: clinical pathology
Program(s) on which the course is given: Master of Hepatology
Department(s) offering the Program: Hepatology depaetment
Academic year/level: 1st part
Date of approval by Departmental and InstituteCouncil: 2011

B-Professional Information

1 – Program aims:

Clinical pathology aims to provide students with a thorough comprehension of both background knowledge and recent advances in clinical pathology.
The Program aims to prepare students for independent research careers in academia,diagnostic laboratories or the biotechnology sector. At the end of the Program, the successful student will have acquired the following:

A- Knowledge and understanding of fundamental principles and recent advances in clinical pathology related to hepatology medicine.
B- understand the role of laboratory in diagnosis of hepatic diseases.
C- Detailed information about the modern technologies of clinical pathology and how to
apply these to the investigation of disease.
D- Aspect of laboratory management, safety, quality control, research and statistical methods.
E- Perform advanced techniques which are useful for diagnosis of many hepatic diseases.
F- Detailed knowledge and understanding of the essential facts, concepts, principles and theories relevant to their chosen research project.
g-The ability to critically evaluate current research literature in clinical pathology.
h- Management and communication skills, teamwork, writing and presentation skills.
Knowledge and skills necessary to carry out experimental research project.
• The skill to evaluate literature in context to their current research and propose new hypotheses relevant to their research.

2. Intended Learning Outcomes (ILOs) for Program:

A-Knowledge and Understanding

a1. Describe the modern advanced techniques of different hepatology, clinical chemistry and microbiology as well as immunology laboratory tests related to hepatology medicine.
a2. Apply pre and post analytical precautions properly.
a3. Evaluate the major clinical affections on different hepatology, clinical chemistry,laboratory tests.
a4. Discuss on evidence bases the changes occur in microbiology as well as immunology laboratory results in different diseases.
a5. Approve the ethical and medico legal principles that should be applied in the practice of Clinical pathology.
a6. Apply Quality assurance and quality improvement measures in the Clinical pathology laboratories.
a7.Approve the ethics of medical research..
a8 State the impact of good practice in Clinical Pathology laboratories on the environment

B - Intellectual skills

B1.Select the suitable tests for each clinical situation
B2. Plan for safe practical work in the laboratory.
B3. interpret accurately the different laboratory reports.
B4.asses the normal and abnormal values of different tests
B5 .Correlate the normal and abnormal values of different tests with the clinical data .
B6- perform analytical thinking to solve common clinical situations related to Clinical pathology.

C-Professional and practical skills

C1. Perform adequately advanced techniques of the field of laboratory medicine as PCR… .
C2. Mange how to take, transport critical samples.
C3. Execute safely laboratory experiments.
C4. Use laboratory-based methods to generate data
C5. Analyze experimental and diagnostic results and critically evaluate their strength and validity
C6. Prepare and present technical reports
C7. Use perfectly the new tools and techniques to improve the professional practice in the clinical pathology field related to hepatology medicine .
C8 – Examine and interpret blood in different hepatic diseases

General and transferable skills

D1- Communicate effectively through oral presentations using power point, written
reports and scientific journal club presentations.

D2 - Practice team's leadership in various professional contexts.
D3. Define problems, assess risks, and take decisions accordingly
D4- Use data technology to improve his practice in the field of clinical Pathology
laboratory and education.
D5- Present seminars within available time

4-Curriculum structure and contents:

Topic	**Theoretical hours**	**Laboratory/ Practical**	**Total**
1- **clinical chemistry of hepatobiliary disease**	4	3	7
2- **clinical immunology of hepatobiliary disease**	4	3	7
3- **Heamatology**	3	3	6
Total hours	11	9	20

4- Teaching and learning methods
4.1 Lectures: for acquisition of knowledge

5- Student assessment methods
5.1final written and oral exams

Assessment schedule
One written exam for 3hours long (150 marks)+ oral exam(50 marks), at the end of the course.
Weighting of assessments
Final-term written examination 75 %
Oral examination 25%
7- Other Resources / Facilities required for teaching and learning to achieve the above ILOs
Overhead projectors, Computers, cadavers, Laboratories instruments, Internet club We certify that all of
the information required to deliver this course is contained in the above specification and will be
implemented

Program coordinator: Prof.dr.Ahmed El_Shaarawy