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Program specification of Hepatology medicine Master degree

A- Administrative Information

- 1. Program Title:** Hepatology medicine
- 2. Award / degree:** Master.
- 3. Type of program :** single
- 4. Department responsible:** Hepatology medicine department-
biochemistry-microbiology- parasitology-pathology-Anatomy-clinical
pathology-public health.
- 5. Coordinator:** prof.dr.Eman Rewesha
- 6. Date of most recent approval of program specification by the
Institute council:**2011

B- Professional Information:

1- Program Aims:

- Be oriented to the causation, pathogenesis, clinical features, diagnosis, 1-
a)
management, and control of infectious diseases of hepatobiliary system.
Be oriented to the causation, pathogenesis, clinical features, diagnosis, 1-
b)
management, and control of hepatological and gastrointestinal diseases.
Know the line of treatment and prophylaxis of each disease. 1-c)
1-d) Be oriented to the basic interventions at the field of hepatology and
gastroenterology as endoscopy and ultrasonography.

for Program) Intended Learning Outcomes (ILOs

a- Knowledge and Understanding:

- a-1) Describe different viral, bacterial and parasitic disease of
hepatobiliary system.Demonstrate knowledge and skills in diagnostic
parasitology & microbiology and other simple laboratory methods related
to Hepatology medicine.
- a_2 Distinguish different types of laboratory as well as imaging
investigations needed for the diagnosis of hepatobiliary disorders.
- a-3). List the drugs used in the management of hepatobiliary disorders as well as in management of liver transplant recipients; their indications, actions and monitoring & complications

- a-4).. Recognize the socioeconomic background of liver diseases.
- a-5) Define different types of vaccines.
- a-6) Explain the basic physiology of immune system as well as GIT & liver physiology.
- a-7) Apply basic epidemiological principles, including selecting an appropriate study design to address a given clinical question.
- a-8) Describe the causation, pathogenesis, clinical features, diagnosis, management, and control of hepatological and gastrointestinal diseases.
- a-9) Demonstrate the principles about GIT endoscopy and their applications.

b- Intellectual Skills

- b-1) Apply different types of investigations to reach the diagnosis.
- b-2) Apply full clinical skills in optimal manner so as to reach the diagnosis.
- b-3) Suggest differential diagnosis and the provisional diagnosis.
- b-4) Suggest provisional diagnosis after taking full history of the patient.
- b-5) Conclude the final diagnosis.
- b-6)** –Design and conduct medical research in the field of Hepatology, Gastroenterology or Infectious Diseases..

C- Professional and Practical Skills

- c-1) Differentiate between hepatobiliary disorders of common presentation and proper selection of lab investigation and imaging modality.
- c-2) Perform diagnostic and therapeutic procedures considered essential in the field of Hepatology Medicine and Gastroenterology
- c-3)** Perform abdominal u/s.
- c-4)** Perform safely upper and lower gastro intestinal endoscopy.
- c.5-)** Evaluate medical methods and tools used in tropical medicine.
- c-6)** Write and evaluate a professional medical report related to infectious dis.,

d- General and Transferable Skills

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

- d-1) Increase their clinical sense.
- d-2) Proper history taking from the patient and treat them
- d-3) - Perform continuous medical education.

3. Academic Standards:

External References selected to confirm the appropriateness of the Academic standards:

National Guidelines for postgraduates :

**3a- Academic Reference Standards (ARS) National Liver Institute
Master of Hepatology medicine**

Academic Reference standards (Annex 1): for this program were compiled according to the general Academic Reference Standards provided by the national authority for quality assurance and accreditation of education (naqaae) for postgraduate programs (published on February 2009). This program ARS were approved by the faculty council on

3b. Comparison between ARS and ILOS of the program (Annex 2).

***Program External References (Bench marks) :**

**1_ACGME (Accreditation council for graduate medical education).
http://www.acgme.org/acWebsite/navPages/nav_public.asp**

**2_University of Mishigan Health system, Int.med.&Gastroentrolgy
Clinical Followship Program
[http://www.med.umih.edu/Intmed/Gastroentrolgy and infectious
dis/edu/fellowinfo.htm](http://www.med.umih.edu/Intmed/Gastroentrolgy_and_infectious_dis/edu/fellowinfo.htm)**

4- Curriculum Structure and Contents

4.a- Program duration (credit hours): 36 credit hours

4.b- Program structure:

	Lecture	Tutorials/ Seminars	Laboratory/ Practical	Others	Total
HEPT 711	2				2
HEPT 712	2		2		4
HEPT 713	2		2		4
HEPT 714	2				2
HEPT 715	2		2		4
HEPT 716	2		2		4
HEPT 717	2		2		4
UNI700	2				2

HEPT 718	5		5		10
HEPT 719	5		5		10
Logbook					3
Thesis					6
Total					55

5- Courses contributing to the program

5.1. 1st part

a. Compulsory

a1- Code No. HEPT711

Course Titles: Applied Physiology

No. of credit hours: 1 hr weekly

Program ILOs covered: Refer to Matrix

a2- Code No. HEPT712

Course Titles: Applied Biochemistry

No. of credit hours: 1 hr weekly

Program ILOs covered: Refer to Matrix

a3- Code No. HEPT713

Course Titles: Applied Bacteriology

No. of credit hours : 1 weekly

Program ILOs covered: Refer to Matrix

a4- Code No. HEPT714

Course Titles: Human Parasitology

No. of credit hours : 1hr weekly

Program ILOs covered: Refer to Matrix

a5- Code No. HEPT715

Course Titles: Applied Pathology

No. of credit hours : 1 hr weekly

Program ILOs covered: Refer to Matrix

A6- Code No. HEPT716
Course Titles: applied Anatomy
No. of credit hours : 2 hour weekly
Program ILOs covered: Refer to Matrix

A7- Code No. HEPT717
Course Titles: clinical pathology
No. of credit hours : 2 hour weekly
Program ILOs covered: Refer to Matrix

b. Elective:

b1- Code No. UNI700
Course Titles: Medical statistics, methods of research. Medical ethics.
No. of credit hours: 1 hour weekly
Program ILOs covered: Refer to Matrix

c. Optional – non

5.2. 2nd part:

a . Compulsory

a1- Code No. HEPT718
Course Titles: Hepatology medicine
No. of credit hours : 17 hours
Program ILOs covered: Refer to Matrix

a1- Code No. HEPT719
Course Titles: GIT Interventions
No. of credit hours : 17 hours
Program ILOs covered: Refer to Matrix

b- Elective: Non

c- Optional: Non

6. Program – Course ILOs Matrix. (Annex 3)

7. Program admission requirements

- Medical Bachelor of medicine and surgery (M.B.B.Ch) with at least good level
- Acceptance of work.

- Selection criteria will be established by the Council of the department.

8- Regulations for progression and Program completion

- **1st part (9 credit hours):** the student will be examined in the courses of the first part.

After studying the courses, the assessment is written, oral and practical exams and for completion of this part the student must pass (60% from total mark).

- **Second part (18 credit hours):** the student will study courses of the second part, the assessment is written –oral and practical exam student must pass in the second part (60% of mark) to finish his part.

-**log book (3 credit hours):** this book will contain all the activity that done through the program and the student will not be allowed to enter the exam of the second part unless completing 75% of its activities.

-First part or the second part exam conducted twice /year in May and in November

-**Thesis: (6 credit hours)** thesis are conducted in the field of Hepatology medicine and the student can choose its subject after passing at least the first semester and he can discuss it after 6 months of registering the protocol of the thesis provided that he passed the second part and it has no marks. After discussion the graduate will receive the degree.

The applied knowledge examination consists of two written papers that will include case studies.

- Paper 1 (3 hours): composed of a written paper including short answer essay questions (300marks).
- Paper two (3 hours): composed of a written paper including short answer essay questions (300marks).

The clinical exam

This is the final clinical examination. Each candidate has one chance to pass this exam.

Pre-requisites to be eligible to sit for the clinical exam

Candidates must complete the following:

- Complete the whole training program successfully.
- Pass successfully the written exam (applied knowledge exam).

- Submit her/ his logbook and portfolio for final assessment and both approved by the Hepatology department scientific council.

- The examination consists of four components:

A. Long Clinical Case: This component tests the ability of the candidate to obtain data from history taking and clinical examination, to present and interpret these data, to discuss patient management and to demonstrate appropriate attitudes. The candidate will be required to take a history and examine the patient while being observed by two examiners who will not interfere. Subsequently, the candidate will orally present the findings and discuss clinical data and proposed patient management. Scoring is based on a predetermined weight for each component of the exam (150 marks)

B. Diagnostic tools: This component tests the ability of the candidate to diagnose the cases based on clinical examination, to interpret these data to demonstrate appropriate acquired professional skills and attitudes. Scoring is based on a predetermined criteria and model answers (50 marks).

C. Oral exam: This component tests the ability of the candidate to acquire knowledge about the topics included in the curriculum. Scoring of this test will be based on the evaluation of the committee of Hepatology specialties (200marks).

9-Evaluation of program intended learning outcomes

9.1-Senior students:

Tool: Questionnaires-Review of assessment method

Sample: Students in the last year

9.2-Alumni

Tool: Questionnaires

Sample: Student finished Diploma within 5 years

9.3-Stakeholders (Employers)

Tool: interviews

Sample: directors of nearby laboratories and hospitals.

9.4-External Evaluator(s) External Examiner

Tool: Reports

Sample: External examiners in each course

The Program specification should have attached to it all course specifications listed in the matrix.

We verify that all of the information required to deliver this program is contained in the above specification and will be implemented. All course specification for this program are in place.

Program coordinator :prof.dr.Eman Rewesha