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# **Program and Courses**

## **Specifications for MD Hepatology Medicine**

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### **A-Administrative Information**

**14. Program Title:** M.D in Hepatology medicine

**15. Award / degree:** M.D in Hepatology medicine

**16. Program type:** single

**17. Department responsible:** Hepatology medicine department

**18. Coordinator:** prof.dr.Eman Rewesha

**19 . Date of most recent approval of program specification by the Institute council:**2011

### **B-Professional Information:**

#### **1-Program Aims:**

1-a) Be oriented to the causation, pathogenesis, clinical features, diagnosis, management, and control of infectious diseases of hepatobiliary system.

1-b) Be oriented to the causation, pathogenesis, clinical features, diagnosis, management, and control of hepatological and gastrointestinal diseases.

1-c) Know the line of treatment and prophylaxis of each disease.

1-d) Be well-experienced to the basic interventions at the field of hepatology and gastroenterology as endoscopy and ultrasonography as well as their updates.

#### **2-Intended Learning Outcomes (ILOs) for program**

##### **a- Knowledge and Understanding:**

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

**a-1)** Recognize the updates in viral, bacterial and parasitic diseases of hepatobiliary system.

**a-2)** Discuss on evidence bases the laboratory diagnostic tests for infectious diseases of hepatobiliary system.

**a-3)** Identify the new trends in anti-microbial chemotherapy.

**a-4)** Clarify the advances in the pathogenesis, the clinical features, diagnosis, management, and control of the major hepatic diseases

**a-5)** Define the updates in vaccines.

**a-6)** Identify the advances in the basic physiology of immune system as well as GIT & liver physiology.

**a-7)** Describe in details the causation, pathogenesis, clinical features, diagnosis, management, and control of hepatological and gastrointestinal diseases.

- a-8) Describe the basic sciences about GIT endoscopy and their updated applications.
- a-9) Approve the ethical and legal principles of medical and professional practice.
- a-10) Apply the principles of quality assurance in medical practice.
- a-11) Appraise the principles, methods, ethics, and various tools of medical research.

### **b- Intellectual Skills**

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

- b-1) Apply different types of investigations to reach the diagnosis.
- b-2) Apply knowledge and skills in optimal manner to solve patients problems.
- b-3) Suggest differential diagnosis and the provisional diagnosis.
- b-4) Suggest provisional diagnosis after taking full history of the
- b-5) Conclude the final diagnosis.
- b-6) Plan to develop progress in the field of infectious dis., Hepatology & gastroenterology
- b – 7) Argue, and discuss medical issues on evidence based manner
- b.8- Formulate a research plan in the area of specialty..
- b.9- Participate in risk assessment and management as a part of clinical governance..
- b.10- Analyze patient data and evaluate investigation results to reach a diagnosis.

### **C- Professional and Practical Skills**

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

- c-1) Perform abdominal u/s.
- c-2) **Safely and adequately** perform upper and lower gastro intestinal endoscopy.
- c-3) **Properly** perform ERCP.
- c-4) Evaluate medical methods and tools used in infectious dis., Hepatology & gastroenterology and share in its development and progress.
- c .5- Use recent technological tools in the professional practice of Hepatology medicine.

### **d- General and Transferable Skills**

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

- d-1) - Communicate effectively with his colleagues and patients and their relatives.

- d-2)** - Manage scientific seminars, with good time management
- d-3)** Continuously improve his practice based on constant self evaluation and lifelong learning.
- d-4)** Train juniors and evaluate their performance.

**3-Academic Standards:**

- External References selected to confirm the appropriateness of the Academic standards: NARS : Academic Reference Standards(ARS) ) National Liver Institute academic reference standards for MD degree postgraduate **Hepatology medicine** (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 Institute 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](http://www.acgme.org/acWebsite/navPages/nav_public.asp)**

**2\_Mayo clinic Gastroenterology and Hepatology Board Review (<http://www.ebook3000.com/Mayo-Clinic-Gastroentrology-and-Hepatology-Board-Review-3rd-edition-23341.html>).**

**4-Curriculum Structure and Contents**

**4.a- Program duration (credit hours:60 credit hours**

**4.b- Program structure:**

	Lecture	Tutorials/ Seminars	Laboratory/ Practical	Others	Total
<b>HEPT 816</b>	<b>18</b>		<b>10</b>		<b>28</b>
<b>HEPT 817</b>	<b>1</b>		<b>1</b>		<b>2</b>
<b>HEPT 818</b>	<b>.5</b>		<b>.5</b>		<b>1</b>
<b>HEPT 819</b>	<b>.5</b>		<b>.5</b>		<b>1</b>

<b>Logbook</b>					<b>9</b>
<b>Thesis</b>					<b>15</b>

### **5-Courses contributing to the programme:**

#### **a . Compulsory**

a1- Code No.**HEPT 816**

Course Titles: HEPATOLOGY medicine

No. of hours : 28 hours

Program ILOs covered: Refer to Matrix

**a-2**Code No. HEPT817

Course Titles: GIT interventions

No. of hours: 2 hours weekly

Program ILOs covered: Refer to Matrix

a-3Code No. HEPT818

Course Titles: applied Biochemistry

No. of hours: 1 hours weekly

Program ILOs covered: Refer to Matrix

a-4Code No. HEPT819

Course Titles: applied pathology

No. of hours: 1 hours weekly

Program ILOs covered: Refer to Matrix

**b. Elective –non**

**c. Optional – non**

### **6. Program – Course ILOs Matrix. (Annex 3) 7.**

#### **Program admission requirements:**

- MS.c. degree in tropical Medicine with at least good level.

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

### **8-Regulations for progression and Program completion**

- (for 18 month the student will study courses of second part and the assessment is written –oral and practical exam. Student must pass in the part (60% of mark) to finish his part.
- **Thesis :** 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 2 years 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.
- **Log book** this book will contain all the activities that are 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.
- exam conducted twice /year in May and in November

### **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 M.Sc. 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 specifications for this program are in place.*

**Programme coordinator:prof. Dr.Eman Rawesha**