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## **Course Specification of Applied Pathology for Hepatology medicine master**

### **A- Administrative information:**

**Course title:** Applied Pathology

**Code:** HEPT819

**Department giving the course:** Pathology department

**Program on which the course is given:** Master degree in Hepatology  
Medicine

**Department offering the Program:** Hepatology Medicine department

**Semester:** 1<sup>st</sup> semester

**Date of specification:** 2011

**Date of approval by department and Institute council:** 2011

### **B- Professional information:**

#### **1. Overall aims of course:**

**a.** To familiarize students with the basic disease patterns including definition, etiology, morphologic changes in GIT system including liver diseases in addition to their fate and complication .

**b.** To provide students with essential knowledge for gross and microscopic changes in different diseases affecting hepatobiliary system for understanding and interpreting pathological reports.

#### **2. Intended learning outcomes (I.L.OS):**

##### **a- Knowledge & understanding:**

**a1.** Identify the principals of general pathology (cell injury, inflammation, tissue repair, homeodynamic, cellular dysplasia , neoplasia... etc ) and explain different disease processes occurring in GIT system including hepatobiliary system.

causes (etiology), and how the disease develops in response to the etiologic agents (pathogenesis) together with infectious diseases .

**a2.** Describe and discuss characteristic gross and microscopic pictures of different pathologic lesions within those organs and the associated functional disturbances.

**a3.** Determine the fate and complications of different disease processes.

##### **b- Intellectual Skills**

**b1.** Recognize gross and microscopic pictures aiming at reaching the correct diagnosis.

**b2.** Predict the diagnosis of different diseases affecting liver based on the underlying gross and microscopic pictures.

**c-Professional and Practical Skills**

**c1.** Employ the different diagnostic pathological tools

**c2.** Interpret a pathology report in an accurate manner.

**d-General and Transferable Skills**

**d1.** Search for the recent medical information and continued progress in medical sciences.

**d2.** Express freely and adequately themselves by improving descriptive capabilities and communication skills.

**d3.** Respond appropriately according to the seriousness of pathologic diagnosis in acceptable manner.

**3- Contents:**

\*Cellular adaptation, cell injury and cell death

\*Acute and chronic inflammation

\*Tissue renewal and repair: regeneration, healing and fibrosis.

\*Hemodynamic disorders, Thromboembolic disease and shock.

\*Genetic disorders.

\* Neoplasia

\*Infectious diseases

\*Environmental and nutritional pathology.

\*Diseases of infancy and childhood.

**2- SYSTEMIC Pathology:**

\* Diseases of the GIT and hepatobiliary system.

**3- JARS**

<b>Topic</b>	<b>Theoretical hours</b>	<b>Laboratory/ Practical</b>	<b>Total</b>
<b>1- General Pathology</b>	4	3	7
<b>2-Systematic Pathology</b>	4	3	7
<b>3- JARS</b>	3	3	6
<b>Total hours</b>	11	9	20

**4. TEACHING & LEARNING METHODS:**

4.1- Lectures

4.2- Practical classes

**5. STUDENT ASSESSMENT METHODS:**

5.1- Written Examination for assessment of knowledge and understanding and intellectual skills

5.2- Oral Examination for assessment of knowledge and understanding outcomes, intellectual skills, general skills and attitude.

5.3- Practical Examination for assessment of practical and intellectual skills

**ASSESSMENT SCHEDULE:**

One written exam 1.5 hour in Applied Pathology(50 marks) + oral exam(50 mark)

**WEIGHING OF ASSESSMENT:**

Written exam: 50%

Oral exam:50%

Total: 100%

**6- LIST OF REFERENCES:**

6.1- Course notes:

Staff member's color atlas of gars.

6.2- Essential books:

o Kumar, Cotran & Robbins: Recommended text book : Basic Pathology.

o Macfarlane, Reid & Callender: Illustrated Pathology Lectures.

o CDs available at the department on request.

O Diagnostic histopathology: Fletcher.

6.3- Recommended web sites:

o <http://www.pathmax.com>

o <http://www.medlib.med.utah.edu/webpath/labs/labmenu.html>

o <http://www.medscap.com/pathologyhome>

<http://www.qwumc.edu/dept/path/2f.htm>

**7- Resources / Facilities required for teaching and learning to achieve the above**

**ILOs:**

7.1- Data show.

7.2- Computers

7.3- Laboratories instruments.

7.4- Internet club.

*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 is in place.*

**Program coordinator:**

**Name: Prof Dr, Nermeen Ehsan**