Course specification of applied pathology

A-Administrative information:

Course title: Applied Pathology
Code: PEDHI 812
Department giving the course: Pathology department
Program on which the course is given: Master . Of Pediatrics Hepatology
Department offering the program: Pediatrics Hepatology department
Semester: 1st semester

Date of specification : 2011
Date of approval by department and National institute of Liver : 2011

B-Professional information:

1. AIM OF THE COURSE:
I. 01. To familiarize students with the basic disease patterns including definition, etiology, morphologic changes in different organ system diseases in addition to their fate and complication
I. 02. To provide students with essential knowledge for gross and microscopic changes in different diseases for understanding and interpreting pathological reports.

2. INTENDED LEARNING OUTCOMES (I.L.OS):

a- Knowledge & understanding:
By the end of the course, students should be able to:
a1. Discuss the principals of general pathology (cell injury, inflammation, tissue repair, homodynamic, cellular dysplasia , neoplasia… etc ) and explain different disease processes occurring in cardiovascular system, renal and endocrin organs; their causes (etiology), and how the disease develops in response to the etiologic agents (pathogenesis) together with infectious diseases in all body organs.
a2. Describe and discuss characteristic gross and microscopic pictures of different pathologic lesions within those organ systems and the associated functional disturbances.
a3. Determine the fate and complications of different disease processes

b- Intellectual Skills
By the end of the course, students should be able to:
b1. Interpret gross and microscopic pictures aiming at reaching the correct diagnosis.
b2. Predict the diagnosis of different diseases based on the underlying gross and microscopic pictures.

c- Professional and Practical Skills
By the end of the course, students should be able to:
c1. Employ the different diagnostic pathological tools
c2. Interpret a pathology report in an accurate manner.

d- General and Transferable Skills
By the end of the course, students should be able to:
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:
1- GENERAL Pathology:
* Cellular adaptation, cell injury and cell death
* Acute and chronic inflammation
* Tissue renewal and repair: regeneration, healing and fibrosis.
* Hemodynamic disorders, Thromboimbolic disease and shock.
* Genetic disorders.
  * Neoplasia
  * Infectious diseases
  * Environmental and nutritional pathology.
  * Diseases of infancy and childhood.

2- SYSTEMIC Pathology:
* Diseases of the GIT.
* Diseases of the endocrine system.
* Diseases of the blood * Disease of lymphoid system
* Diseases of the respiratory system .
* Diseases of blood vessels and heart .
  * Diseases of urinary system.

Diseases of CNS & Peripheral nervous system

3- JARS
* Pulmonary T-B
* Congestive splenomegally
* Non-Hodgkin lymphoma, spleen
* Multiple adenomatous polyp
* Renal xanthogranuloma
* Polycystic kidney

Credit hours: 2 hrs
<table>
<thead>
<tr>
<th>Topic</th>
<th>Credit hours for practical</th>
<th>Credit Hours for lectures</th>
<th>Total</th>
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<tbody>
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<td>10</td>
<td>5</td>
<td>15</td>
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<tr>
<td>Systematic Pathology</td>
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<tr>
<td>JARS</td>
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<tr>
<td>Total</td>
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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 2 hours in Applied Pathology + practical exam and oral exams
WEIGHING OF ASSESSMENT:
Written exam: 50%
Oral exam: 25%
Practical exam: 25%
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](http://www.pathmax.com)
o [http://www.medlib.med.utah.edu/webpath/labs/labmenu.html](http://www.medlib.med.utah.edu/webpath/labs/labmenu.html)
o [http://www.qwumc.edu/dept/path/2f.htm](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.

Program coordinator: Prof. Dr. Nermen Ehsan
Dean: Prof. Dr. Magdy Khalil
Head of Quality Assurance Unit: Dr. wessam saber morad