Course Specification: Basics of Parasitology for Master of Hepatobiliary Surgery

A- Administrative Information:
1) Course Title: Parasitology for Hepatobiliary Surgery
2) Department giving the course: Hepatobiliary Surgery Department
5) Department(s) offering the program: Hepatobiliary Surgery
6) Semester: 1st part
7) Date of approval by National institute of liver Council: 2011

B- Professional Information:
1 – Overall aims of course:
1- Perfection in bases of scientific research uses of research tools.
2- Application of analytical methods Parasitology.
3- Awareness with Current Problems
4- Identification of problems and finding new solutions.
5- Perfection in suitable range of working skills and use of technology to serve his career.
6- Awareness by his role in community development.
7- Fair, responsible, accurate and honest.
8- Continous working to increase Knowledge, profession.

2 – Intended learning outcomes of course (ILOs)
A- Knowledge and Understanding:
a1- Recognize bases and theories and what is new in Parasitology and related fields.
a2- Evaluate new researches in parasitology.
a3- Apply ethical and legal considerations of practical work in parasitology.
a4- State rules and bases of quality control application in parasitology.

B- Intellectual skills:
B1- Evaluate data in his field.
B2- Use all data and facilities for solving work problems.
B3- Write and evaluate reports.

C- Professional and practical skills:
C 1 Perfect basic and new skills in parasitology.
C 2 Use current tools in parasitology (Immunodiagnostic tests as ELISA, and PCR).

D- General and transferable skills:
D1- Use of data technology for work.
D2- Use of all available sources to get knowledge.
D3-Work in team.
D4-Learn himself continuously

3-Content:
Parasitology including Helminths, Protozoa and a practical course

<table>
<thead>
<tr>
<th>Topic</th>
<th>Theoretical hours</th>
<th>Laboratory/Practical</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction of Trematoda + Fascioliasis (F. hepatica) Halzon + (H. + Paragonimus)</td>
<td>2</td>
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<tr>
<td>Schistosomiasis ((S. haematobium + S.mansoni + S.japoniceum)) Snails + introduction of Cestodes + (D. latum)</td>
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<tr>
<td>Cysticercosis ++ Hydatid Disease</td>
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<tr>
<td>M.multiceps + Ceonurosis + Introduction of Nematoda + Ascarisiasis</td>
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<td>Hook worms. + Capillaria philippiaensis</td>
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<tr>
<td>Filariasis , + viscerallarva migrans + cut. Larva migrans</td>
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<td>2</td>
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<tr>
<td>Introduction of Protozoa+ Malaria Leishmaniasis</td>
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<td>E. histolytica Free living Amoebae + B.coli + Giardia</td>
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<td>Trichomonas vaginalis + commensal of flagellates</td>
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<td>3</td>
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<tr>
<td>Blastocystis Trypanosomiasis, Coccidia</td>
<td>3</td>
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<td>3</td>
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<tr>
<td><strong>Total hours</strong></td>
<td><strong>23</strong></td>
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<td><strong>23</strong></td>
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<td><strong>Total credit hours</strong></td>
<td><strong>1.5</strong></td>
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<td><strong>1.5</strong></td>
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</tbody>
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1 credit hour = 15 hours theoretical
4– **Teaching and learning methods:**
4.1 lectures
4.2 Seminars & discussions

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, and general skills
5.3- Practical Examination for assessment of practical and intellectual skills.

**Assessment schedule**
One written exam of 1.5 hours in parasitology + oral exam

**Weighting of assessments**
1- Written exam 70% of all marks
3- Oral exam 30% of all marks
Total 100%

6- **List of references**

6.1 - **Essential books (text books)**
The department text books :Medical parasitology part 1 and 2 by prof. Dr. Nashaat El Sayed Nassef.
Medical Parasitology
Diagnostic medical Parasitology
Manthon's tropical medicine

6.2 - **Recommended books**
Basic clinical Parasitology,
Foundations of Parasitology, 5th ed., Roberts L.S. and Janovy J. (eds), Wm. C. Brown, Inc.

6.3 - **Periodicals, Web sites, etc**
Journal of tropical medicine and hygiene.
Annals of tropical medicine and parasitology.
American journal of tropical medicine.
Parasitologists united Journal.
http://www.asp.uni.edu
http://www.parasitology.org.uk
http://www.dpd.cdc.gov/dpdx
http://www.parasite.biology.qiowa.edu
http://www.sciencedirect.com
http://www.pubmed.com

7- **Resources / Facilities required for teaching and learning achieving the above ILOs**
Computers and data shows.

*We certify that all of the information required to deliver this course is contained in the above specification and will be implemented*

**Head of the department: Prof. Dr. Thoria Sarif**