

**Template
for Course Specifications
2015-2016**

Faculty : Medicine
Department : Medical Parasitology

Course Specifications

Programme(s) on which the course is given : M.B.B.ch
Major or minor element of programmes : major
Department offering the programme : Faculty of Medicine
Department offering the course : Medical Parasitology Department
Academic year / level : 3rd year medical students
Date of specification approval : 4/2016

A- Basic information

Title: Medical Parasitology Code: PAR
Lecture: 2 h Tutorial ½ h Practical 2 h Total: 4½ h (hour/week)
Total hours: 120 hours

B- Professional Information

1 - Overall Aims of Course

The main aim of medical parasitology course is to provide the student with:

- **Knowledge** essential for the general practitioner related to parasites of medical significance regarding their biology and life cycle; host parasite relationship; environmental and host factors regulating parasitic diseases transmission pattern and how to prevent it; parasites causing alternation in the structure and function of human organs and the different methods of management and control of parasitic diseases.

- **Skills and attitude** of observation, interpretation and integration of data needed to diagnose human parasitic infections.

2 – Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding

- a.1. Describe the morphological characteristics, life cycles, methods of transmission of medically important helminthes.
- a.2. Recognize the morphological characteristics, life cycles, methods of transmission of medically important Protozoa.
- a.3. Describe the morphological characteristics, life cycles and recognize diseases caused or transmitted by medically important Arthropods.
- a.4. Illustrate the geographical distribution of important parasites.
- a.5. Explain how parasites harm their hosts and the major immunological responses underlying this.
- a.6. Discuss clinical picture associated with parasitic infections.
- a.7. List the different diagnostic techniques for detecting parasites.
- a.8. Describe the plan of treatment of each parasitic disease.
- a.9. List the preventive measures to avoid parasitic infections..

b- Intellectual Skills

- b1- Interpret different clinical presentations and correlate them to suspected parasites
- b2 Choose the suitable diagnostic techniques concerning the parasitic problems encountered (microscopy, serology or molecular.. etc)
- b3- Differentiate and compare similar stages of different parasites.
- b4- Plan a control program for a particular parasitic disease

c-Professional and Practical Skills

- c1- Manage infectious material in a lab and apply the proper measures of infection control

- c3 Elicit findings in mounted slides and identify different parasites
 c3- Elicit findings in laboratory specimens.
 c4- Interpret the results of examination of parasitic specimens.

D-General and Transferable Skills

- d1 Retrieve recent data from web sites
 d2 Acquire presentation skills
 d3 Work productively in a team.
 d4 Communicate effectively and respectfully with colleagues, supervisors and staff members

3 – Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Introduction	3	2	1
Trematodes		7	8
• Liver flukes	6		
• Heterophyes + lung flukes	4		
• Schistosomes	5		
Cestodes		5	6
• Diphyllbothrium	1		
• Sparganosis	2		
• Taenia	1		
• cysticercosis	2		
• Hydatid disease	2		
• Coenurosis	1		
• Hymenolepis	1		
• Dipylidium	1		
Nematodes		12	16
• Ascaris+ Toxocara	5		
• Hook worms + Enterobius	5		
• Strongyloides + Larva Migrans	5		
• Trichuris+capillaria	5		
• Trichinella	3		
• Filaria	5		
Protozoa		16	16
• Amoeba	10		
• flagelates	10		
• Apicomplexia	10		
• Ciliates	2		
Arthropods		10	11
• Insecta	7		
• Archnida	7		
• Crustacea	7		
Immunology of parasitic diseases.	2	2	
Zoonoses	1	1	
Nosocomial and opportunistic parasitic infections	1	1	
Molecular parasitology	2	2	
Laboratory techniques	4	2	2

4 – Teaching and Learning Methods

- 4.1- Lectures.: small group teaching
 4.2- Practical lessons
 4.3- Tutorial sessions after the practical lessons
 4.4- Enhancing self learning of students (students' presentations)

5 – Student Assessment Methods :

	A									B				C				D			
	A1	A2	A3	A4	A5	A6	A7	A8	A9	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
Written Exams: (Short Essays)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
Written Exams: (MCQ)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
Structured Oral Exams	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓								
Objective Structured Practical Exams (OSPE)	✓	✓	✓							✓	✓	✓			✓	✓	✓				✓
Student presentation														✓				✓	✓	✓	✓

Assessment Schedule

- Assessment 1 Mid Term exam: at the end of the 1st term
 Assessment 2 Final written exam: at the end of the year
 Assessment 3 Structured Oral exam: at the end of the year
 Assessment 4 Objective Structured practical exam: at the end of the year
 Assessment 5 Semester work (student presentation) and log book

Weighting of Assessments (Mark+ percentage)

Mid-Term Examination	(25 marks)	16.7%
Final-Term Examination	75 marks	50%
MCQs	25 marks	33%
Short essay questions	50 marks	67%
Structured Oral Examination	15 marks	10%
Objective Structured Practical Exams (OSPE)	30 marks	20%
Semester work and log book	5 marks	3.3%
Total	150 marks	100%

6 – List of References

- 6.1- Course Notes
 6.2- Essential Books (Text Books)
 6.3- Recommended Books
 6.4- Periodicals, Web Sites, ...etc
- 1- Practical notes
 2- MCQ and clinical cases notes
 Department book
 Clinical Parasitology . A Practical Approach,2013
 a-Basic clinical Parasitology (Brown and Neva)
 b- Colored Atlas of Parasitology
 c- Medical Parasitology (Markell, vogue, and John)
 d- Tropical medicine and Parasitology (peters and Gills)
 -Parasitology today (Trends in Parasitology) Journal.
 - Advanced pubmed web sites.
 - CDC website.

7 – Facilities Required for Teaching and Learning

- 1- Microscopes (binocular).
- 2- Microscopic slides.
- 3- Data-show projector.
- 4- Smart board.

Course ILOs matrix**a. Knowledge and Understanding**

	a1	a2	a3	a4	a5	a6	a7	a8	a9
Introduction	✓	✓	✓	✓	✓	✓	✓	✓	✓
Trematodes	✓			✓					
Cestodes	✓			✓					
Nematodes	✓			✓					
Protozoa		✓		✓					
Arthropods			✓	✓					
Immunology of parasitic diseases.							✓		
Zoonoses									✓
Nosocomial and opportunistic parasitic infections									✓
Molecular parasitology							✓		
Laboratory techniques									✓

b. Intellectual Skills:

	b1	b2	b3	b4
Introduction				✓
Trematodes	✓	✓	✓	✓
Cestodes	✓	✓	✓	✓
Nematodes	✓	✓	✓	✓
Protozoa	✓	✓	✓	✓
Arthropods	✓	✓	✓	✓
Immunology of parasitic diseases.	✓	✓	✓	✓
Zoonoses	✓	✓	✓	✓
Nosocomial and opportunistic parasitic infections	✓	✓	✓	✓
Molecular parasitology			✓	✓
Laboratory techniques			✓	✓

c. Professional and Practical Skills

	C1	C2	C3	C4
Introduction				
Trematodes		✓	✓	✓
Cestodes		✓	✓	✓
Nematodes		✓	✓	✓
Protozoa		✓	✓	✓
Arthropods		✓	✓	✓
Immunology of parasitic diseases.				
Zoonoses				✓
Nosocomial and opportunistic parasitic infections				
Molecular parasitology			✓	✓
Laboratory techniques	✓		✓	✓

d- General and Transferable Skills

	D1	D2	D3	D4
Introduction			✓	
Trematodes	✓			
Cestodes				
Nematodes	✓			
Protozoa	✓			
Arthropods	✓			
Immunology of parasitic diseases.				
Zoonoses	✓	✓	✓	
Nosocomial and opportunistic parasitic infections	✓		✓	
Molecular parasitology	✓			
Laboratory techniques	✓	✓	✓	✓

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