

**Tehran University of Medical Sciences**  
**School of Public Health**  
**Department of Medical Parasitology and Mycology**  
**MS.c. in Medical Parasitology**

School of Public Health

Department of Medical Parasitology and Mycology

**Title:** Medical Parasitology

**Degree:** M.Sc.

**Duration:** 2-2.5 years

**Introduction:**

The field of Medical Parasitology is a branch of medical sciences that deals with those organisms that have become dependent on the human body. Parasites can cause important illnesses. For this reason, parasitology is a major course of study; MSc Students in Medical Parasitology learn more about life cycle of parasites, epidemiology, transmission routes, pathogenesis, symptom of disease, diagnosis, prevention and other control measures. This will be achieved through gaining of a matrix of skills acquired from theoretical and practical courses with emphasis on laboratory activities.

**History:**

About 1000 years ago Avicenna described some protozoan disease with special symptoms. Nowadays scientists achieved new approaches for diagnosing and treatments parasitic disease due to developments in knowledge, so definition of species and isolates can be easily available.

**Aim:**

The main mission of the course is training people in Medical Parasitology. This multidisciplinary field can lead to a career as a parasitologist in fields like diagnosing the agent of parasitic-infectious diseases, control strategies, research, facilitating and train others.

**Outcomes and Principal roles and tasks of the Graduates:**

- Service activities: including participating in control and prevention programs of parasitic disease, doing parasitic exams and report of the exams in the clinical laboratory.
- Educational Activities: preparing parasitic samples, teaching for B.sc. students and help in teaching for graduates.
- Research activities: coordinating in parasitic research project.

**Conditions of Admission to the Course:**

A bachelor of science degree (BSc) in one of the field of Parasitology, Entomology, Microbiology, Immunology, Laboratory Sciences, Veterinary Laboratory Sciences, General Biology and Biology in trend of other fields (Animal Science, Cellular sciences, Molecular Sciences and Microbiology) and Genetic can participate for this course.

**Educational Strategies:**

Educational Strategies will be:

- A combination of student-and teacher-centered learning.
- A combination of theoretical and practical learning in order to train skilled graduates.
- Using reference books and the net for answers to scientific questions.
- Attending in seminars and conferences.
- Choosing a parasitic problem and working in the field and lab as a thesis.

**Student Assessment:**

Periodic, monitoring the progress and completion the thesis

**Total Number of the Credits:**

The course credits totals 32 including:

<b>Kind of Credits</b>	<b>Total Number of Credits</b>
<b>The core credits</b>	21
<b>The noncore credits</b>	3
<b>Writing dissertation</b>	8
<b>Total</b>	32

**Table A: compensatory Courses in the Medical Parasitology M.Sc. Degree**

Course code	Course name	No. of Credits			Teaching hours			Prerequisite course
		Total	Theory	practical	Total	Theory	practical	
<b>1</b>	In parasitological lab work	1	-	1	51	-	51	
<b>2</b>	General Medical Protozoology	2	1	1	51	17	34	01
<b>3</b>	General Medical Helminthology	2	1	1	51	17	34	01
<b>4</b>	Medical Entomology	2	1	1	51	17	34	
<b>5</b>	Biostatistics	2	2	-	34	34	-	
<b>6</b>	General Bacteriology	2	1	1	51	17	34	
<b>7</b>	General Mycology	2	1	1	51	17	34	
<b>8</b>	Immunology(1)	2	2	-	34	34	-	
<b>9</b>	General Hematology	2	1	1	51	17	34	
<b>10</b>	Medical biochemistry	2	1	1	51	17	34	
<b>11</b>	General Genetic	2	2	-	34	34	-	
<b>12</b>	Molecular and Cellular Biology	2	2	-	34	34	-	
<b>13</b>	The principle in Health system	2	2	-	34	34	-	
<b>14</b>	Human Histology	2	1	1	51	17	34	
<b>15</b>	Medical Information Systems*	1	0.5	0.5	26	9	17	
		29	19	10	681	324	357	

Students should pass 12 credits from table-1

\*it is necessary to pass for all students

**Table B: Core Courses in the Medical Parasitology M.Sc. Degree**

Course code	Course name	No. of Credits			Teaching hours			Prerequisite course
		Total	Theory	practical	Total	Theory	practical	
<b>16</b>	Immunology(2)	2	1	1	51	17	34	08&10
<b>17</b>	Principle of Epidemiology	2	2		34	34	-	-
<b>18</b>	Lab Animal in Parasitology	1	0.5	0.5	26	9	17	-
<b>19</b>	Protozoology 1	3	2	1	68	34	34	02
<b>20</b>	Helminthology1	3	2	1	68	34	34	03
<b>21</b>	Protozoology 2	3	2	1	68	34	34	02
<b>22</b>	Helminthology2	3	2	1	68	34	34	03
<b>23</b>	Using computer for the Health data analysis	2	1.5	0.5	43	26	17	05&15
<b>24</b>	Research approaches in Health system	2	1	1	51	17	34	23
<b>25</b>	Fieldwork	2	-	2	136	-	136	19,20,21,22
<b>26</b>	Seminar	1	1					
	Total	24	15	9				-