



**Office for the Development of Medical Education, School of Medicine**  
**In collaboration with The Office of Education and Research,**  
**International Affairs Shahid Beheshti University of Medical Sciences**  
**Department of Medical Parasitology, Mycology and Entomology**

**Course Plan of Medical Mycology for the MBBS Students**

Field Description			
<b>Course Code</b>	129		
<b>Course Name</b>	Medical Mycology		
<b>Course Phase</b>	Semester		
<b>Prerequisite Courses</b>	None		
<b>Course Type</b>	Theoretical	Practical	Total
<b>Educational unit</b>	0.9	0.1	1
<b>Instructional Hours</b>	16 hours	4 hours	20 hours
<b>General Objectives</b>	<p>The general objective of this course is to equip medical students with foundational knowledge and practical understanding of medically important fungi. Through a combination of lectures and laboratory sessions, students will develop a basic grasp of fungal cell biology, mechanisms of pathogenesis, types of fungal infections, and methods of diagnosis and treatment. The course aims to enhance students' competence in recognizing fungal diseases in clinical settings and applying appropriate preventive and therapeutic strategies in line with guidelines.</p>		
<b>Course Description</b>	<p>This course provides an introduction to medical mycology within the context of general medical education. It emphasizes both theoretical understanding and practical application. Students will explore the structure and classification of fungi, learn about the major fungal pathogens that affect humans, and study the diseases they cause. The course covers epidemiological aspects, clinical features, diagnostic approaches, and antifungal therapies. Laboratory sessions complement the lectures by providing hands-on experience in identifying fungi using microscopic methods.</p>		
<b>Theoretical Mycology Content</b>	<ol style="list-style-type: none"> <li>1- Introduction to medical mycology, structure and physiology of fungal cells.</li> <li>2- Major pathogenic fungi and their etiological agents.</li> <li>3- Fungal taxonomy and classification of fungal diseases.</li> <li>4- Transmission routes, pathogenesis, and prognosis of fungal infections.</li> <li>5- Clinical manifestations, complications, epidemiology, and control methods of each fungal disease in humans.</li> <li>6- Laboratory diagnosis of fungal infections.</li> <li>7- Antifungal therapies: classes of drugs, mechanisms, and guidelines.</li> </ol>		
<b>Practical Mycology Topics</b>	<ol style="list-style-type: none"> <li>1- Observation of common saprophytic fungi using pre-prepared slides Observe pre-prepared slides of the causative agents of:</li> <li>2- Superficial mycoses</li> <li>3- Cutaneous mycoses</li> <li>4- Subcutaneous mycoses</li> <li>5- Systemic mycoses</li> </ol>		
<b>Responsible Educational Group</b>	Medical Parasitology and Mycology.		

<b>Course Management Responsible</b>	
<b>Name of Course Director</b>	Dr. Ali Ahmadi
<b>Contact Number</b>	+989160505316
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<b>Course Instructors</b>	
<b>Instructor Name</b>	<b>Department</b>
Dr. Ensieh Lotfali	Medical Parasitology and Mycology
Dr. Ali Ahmadi	

<b>Practical Technicians</b>		
<b>Name</b>	<b>Department</b>	<b>% Contribution</b>
Ms. Ronak Najafi	Medical Parasitology and Mycology.	% 100

<b>Instructional Strategy</b>		
<b>Educational strategy</b>	<b>Allocated Hours</b>	<b>Notes</b>
Class with a lecture approach	16 hours	
Laboratory training	4 hours (for each group)	Each group consists of 20 students
Preparing theoretical questions for final exam	6 hours	
Preparing practical questions and the final exam	3 hours	For all professors and Technicians

<b>Theoretical references for the course</b>	
1	Comprehensive Medical Mycology by Dr. Zeini
2	Mandell's Principles and Practice of Infectious Diseases

<b>Student Responsibilities</b>	
1	Attendance at all theoretical classes
2	Active attendance and participation in all practical classes
3	Completing assigned tasks in theoretical and practical lessons, answering questions, and conducting experiments.

## Student Assessment Methods

Assessment Method	The total score that belongs to this method
Multiple choice tests	36 multiple-choice questions in final exam (each worth 0.5 points)
Written descriptive test	-
Oral exam	-
Student attendance and participation in the course	Active participation in theoretical and practical classes
Evaluation of student reports	-
Practical exam	8 written explanation questions with microscopic observation of slides (each worth 0.25 points)
Conducting or collaborating in research	-

## Other Course-Related Regulations

### Students' Attendance Regulations

- ✓ While teacher is teaching (Both in theoretical and practical class), Students should not enter the class and do not leave the class without permission.
- ✓ Moral principles should be observed in practical and theoretical classes.
- ✓ Wearing medical gown is mandatory in the practical classes.
- ✓ Attendance in the practical class will be checked by students' card and being late to the class is considered as an absence.
- ✓ In case of medical absence, International education office (service desk) is responsible to confirm the related medical documents. Medical Parasitology and Mycology group does not accept any medical certificate.
- ✓ In case of being more than 2 absent out of 8 sessions in theoretical class (up to the end of the semester), the student is not allowed to participate in the final exam.
- ✓ In practical class, in case of having more than 1 absence in mycology course (up to the end of the semester), students are not allowed to participate in the final exam.
- ✓ In case of re-selection of the mycology courses due to the absence in the previous semester, attending in new semester is mandatory

### Exam Regulation

- ✓ Our Department will only consider the students' requests, if it is submitted to the group secretary by the student's representative.
- ✓ The requests for extra score (even 0.5 score), re-exam or etc. will not be accepted in the Department of Parasitology and Mycology under any circumstances. None of the department professors or even the head of the department be able to respond to the personal problems or unrelated requests to the group regulations.
- ✓ Therefore, please do not refer to the group's professors or staffs. You or your representative can only submit any written request to the secretary of the Department.
- ✓ Re-exam is not possible, in case of failing in mycology courses. Even in the conditions of having the basic science exam (Oloom-payeh).

## Practical exam

- ✓ The practical exam consists **8** microscopic slides.
- ✓ Students should Pay attention to each microscope slide and not to write more or less than what is requested.
- ✓ Each mycology question has 0.25 score, if it is written complete and correct.
- ✓ In the answer sheet, the scientific name (genus of the fungi) must be written correctly.
- ✓ If the answer is written incomplete or wrong, the score will be zero.
- ✓ It is strongly recommended to pay attention to the explanations and educational slides given by the teachers during the practical courses,
- ✓ We recommend to students to draw the microscopic shape of the fungus in the notebook to be learn well as well as to get good score in the final exam.