



## COURSE SPECIFICATION

### (Advanced Medical Mycology)

Faculty of Medicine– Mansoura University

#### (A) Administrative information

(1) Programme offering the course.	Programme for Postgraduate master degree of Medical Microbiology and Immunology
(2) Department offering the programme :	Medical Microbiology and Immunology
(3) Department responsible for teaching the course.	Medical Microbiology and Immunology dep.
(4) Part of the programme :	Second part
(5) Date of approval by the Department`s council	7/8/2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title.	Advanced Medical Mycology
(8) Course code.	MIC507AM
(9) Credit hours	1 Credit hour
(10) Total teaching hours.	15 h lectures

#### (B) Professional information

## **(1) Course Aims.**

The broad aims of the course are as follows: (either to be written in items or as a paragraph)

To provide the candidates with updated knowledge of the fungal pathogenesis and virulence and fungi causing invasive fungal infection and how to diagnose them. Also promote them to gain advanced knowledge of mycotoxins, disseminated hematogenous fungal infection. and indoor fungal infection.

## **(2) Intended Learning Outcomes (ILOs).**

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

### **A- Knowledge and Understanding**

- A 1 Outline the pathogenesis and virulence of fungi
- A2 Recognize Fungi causing invasive fungal infection.
- A3 Recognize fungal mycotoxines.
- A4 Recognize Fungi causing hematogenous disseminated fungal infection.
- A5 Recognize Fungi causing indoor mycotic infection.

### **2- Intellectual activities (I)**

The Postgraduate Degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities:

### **B- Intellectual skills**

- B1 Plan the laboratory investigations for the diagnosis of mycotic diseases
- B2 Interpret direct smears from clinical specimens
- B3 Interpret the results of culture on fungal isolation media
- B4 Advice for further tests necessary for full identification of an isolated fungus
- B5 Achieve a specific or differential diagnosis

## **Course content.**

Subjects	Lectures	Laboratory	Field
Fungal pathogenesis and virulence	3hours		
Invasive fungal infections	3hours		
Mycotoxicosis	3hours		
Hematogenous disseminated fungal infection	3hours		
Indoor mycotic infections	3hours		

**(3) Teaching methods:**

4.1. Lectures

4.2. Seminars

4.3. Attending workshops and conferences

4.4 Observation of, assisting and discussion with senior medical staff

**(4) Assessment methods:**

5.1. Written exam for assessment of knowledge and intellectual ILOs

5.3. MCQ continuous assessment exam for assessment of knowledge and intellectual ILOs

**Assessment schedule:**

Percentage of each Assessment to the total mark: (assessment of the total microbiology course)

Written exam:..., 40 marks

MCQ:....., 10 marks

Other types of assessment:.....None..... %:.....

Other assessment without marks:

1-Candidate Logbook which should be fulfilled and signed by Head of the department.

1- Attendance Criteria: Minimum acceptance attendance is 75%

**(5) References of the course:**

6.1. Hand books: Department theoretical books

6.2. Text books:...

1. Topley and Wilson's Microbiology and Microbial infections. 8 volume, 2005, 10th edition
2. Color Atlas and Textbook of Diagnostic Microbiology: Elmer W Koneman 2006, 6th edition
- 3- Jawetz, Melnick and Adelbergs Medical Microbiology, 2004, 23<sup>rd</sup> edition.
- 4- Larone D H, ed. (2002): "Medically Important Fungi: A Guide to Identification", 4th edition.

### **6.3. Journals:**

1. Clinical Microbiology Reviews
2. Journal of Clinical Microbiology
3. Journal of Medical Microbiology
4. Journal of Microbiological Methods
5. Indian Journal of Medical Research.

### **6.1. Websites:**

- 1-Center for Disease Control -[www.cdc.gov](http://www.cdc.gov)
- 2-World Health Organization- [www.who.int](http://www.who.int)
- 3-National Library of medicine- [www.pubmed.com](http://www.pubmed.com)
- 4-MD Consult- [www.mdconsult.com](http://www.mdconsult.com)

### **1. Facilities and resources mandatory for course completion.**

1. Lecture halls.
2. Data shows and computer assistance.
3. Mycology laboratory.
4. Reagents for mycological diagnosis

**Course coordinator:** Dr. Tamer Bedir

**Head of the department:** Prof. Dr. Mohammad Abou El ela

**Date:**