



COURSE SPECIFICATION

(microbiology related to chest medicine)

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	MD degree of chest medicine
(2) Department offering the programme.	Chest Medicine Department
(3) Department responsible for teaching the course.	Microbiology Department
(4) Part of the programme.	First Part
(5) Date of approval by the Department's council	15-3-2016
(6) Date of last approval of programme specification by Faculty council	9-8-2016
(7) Course title	microbiology related to chest medicine
(8) Course code.	CHEST607 CHEST 611 MIC
(9) Credit hours.	2credit hours
(10) Total teaching hours.	30 h

(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)

- 1- To produce graduate able to design perfect infection control program.**
- 2- To produce graduate able to acquire the competence and experience to effectively differentiate between microorganisms implicated in pathogenesis of different disease.**

(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

- A1-identify different types of Aerobic and anerobic bacteria which cause chest diseases ,differentiate between each type and diagnosis and specific antibiotics of each type
- A2- Discuss microbiological,diagnosis of pulmonary tuberculosis and how to differentiate it from atypical mycobacteria.
- A3- recognize asthma and mycobacterial tuberculosis genetics.
- A4- Discuss different fungi causes pulmonary infection and how to differentiate between them microbiologically
- A5- Discuss microbiology of common viruses causing chest infection
- A6-identify cell mediated and humeral immunity and their role in pathogenesis of different immunological chest diseases
- A7-recognize tumor immunology
- A8- Discuss the role of immunotherapy in lung cancer and BA
- A9- Discuss general principles of infection control program and different strategies in ICU, fiberoptic bronchoscopy, thoracoscopy and chest department

B- Intellectual skills

B1- Able to differentiate between different organisms and selection of best diagnostic method

C- Professional skills

Course contents

Subjects	Lectures	Total Teaching Hours
1. Microbiological causes of respiratory diseases (general overview)	2	
2. Bacterial causes of chest diseases : Aerobic organisms	2	
3. Bacterial causes of chest diseases : Anaerobic organisms	1	
4. Bacterial causes of chest diseases : Atypical organisms	2	
5. Mycobacterium tuberculosis	3	
6. Atypical mycobacteria	1	
7. Viral causes of chest diseases	2	

Subjects	Lectures	Total Teaching Hours
8. Fungal causes of chest diseases	1	
9. Parasitic causes of chest diseases	1	
10. Genetics of TB and bronchial asthma	3	
11. Types of immunity & immunologic chest diseases	3	
12. Tumor immunology	2	
13. Immunotherapy	2	
14. Infection control program	3	
15. Nosocomial infections	2	
Total teaching hours	30	30

(3) Teaching methods:

- 4.1: lectures, seminars, workshops
- 4.2: clinical sessions and work experience
- 4.3: Problem solving, case studies
- 4.4: directed and self directed learning activities

(4) Assessment methods:

- 5.1 Written for assessment of Knowledge and intellectual ILOs
- 5.2: MCQ for assessment of Knowledge and intellectual ILOs
- 5.3: logbook assessment and on supervisor reports for assessment of:

- lecture attendance.
- practical and transferable skills.
- different scientific activities as attendance of workshop, conferences, seminars and thesis discussions attendance.

Mark of each Assessment :

MCQ 20

Written exam: 80

Total. 100

(5) References of the course.

- 6.1. Hand books: Oxford handbook of respiratory medicine
- 6.2: Text books
 - Fishman's Pulmonary Diseases and Disorders
 - Crofton and Douglas's Respiratory Disease
 - Eagan's fundamentals of respiratory care
 - Diagnostic microbiology
 - Text book of microbiology
- 6.3. Journals: Periodicals of American Journal of Chest Diseases
Periodicals of European Respiratory Journal
Periodicals of Chest Medicine
- 6.4. Websites: Update guidelines of Asthma, COPD, Lung Cancer,
Pulmonary Infections
www.GINA.com, www.GOLD.com,

(6) Facilities and resources mandatory for course completion.

Teaching rooms: Patients wards, Pulmonary function tests, Arterial Blood Gases, Respiratory Critical Care wards, Sleep Medicine Laboratory, Allergy Immunology Laboratory, Bronchoscopy wards.

Course coordinator:

Head of the department:

Prof. Mohamad khairy

Date: