



COURSE SPECIFICATION

(Microbiology-HEM 507)

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	Postgraduate Master degree of clinical hematology/HEMA 500
(2) Department offering the programme.	Internal 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	26/04/2016
(6) Date of last approval of programme specification by Faculty council	9\8\2016
(7) Course title.	Microbiology
(8) Course code.	HEM 507
(9) Total teaching hours.	7.5 hours
(10) Credit hours	0.5 hour

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows.

- 1- To educate the candidate the basics of immunology including Cells of immune system and their function, Immunomodulation, Transplantation immunology, Tumor immunology, autoimmune diseases & Immune deficiency disorders.
- 2- To provide the candidate with the principles of nosocomial infection & infection control
- 3- To educate the candidate the types of infections including opportunistic infection, blood born infection & PUO.

(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: To identify human immunodeficiency virus-related malignancies.
- A2To Explain the mechanisms of autoimmune diseases and their relation with different hematological disorders.
- A3: To identify principles of, indications for and complications of autologous and allogeneic bone marrow or peripheral blood stem cell transplantation and peripheral stem cell harvests.
- A4: To identify principles of molecular genetics, the nature of oncogenes and their products, and cytogenetics.
- A5: To identify basics of Gene therapy.
- A6To identify and recognize opportunistic and nosocomial infections which cause a great deal of drug resistance and its effect on the patient's hospital stay and how to deal with this issue.

B-- Intellectual activities:

B 3:

- To construct meaningful, supervised research experience with appropriate protected time either in blocks or concurrent with clinical rotations while maintaining the essential clinical experience.
- To expand research ideas in the fields of cloning, gene therapy and stem cell transplantation.
- To face the fears of increasing antimicrobial resistance and development of new mutations.

D- Transferable skills

D1- To participate in a multidisciplinary case management conference or discussions.

(3) Course content:

Subjects	Lecture	Clinical	Laboratory	Field	Total Teaching Hours
(1) General microbiology <ul style="list-style-type: none"> • Antimicrobial agents & drug resistance • Cloning strategies 	1h 1h				
(2) Immunology <ul style="list-style-type: none"> • Cells of immune system and their function • Immunomodulation • Transplantation immunology • Tumor immunology • Autoimmune diseases • Immune deficiency disorders 	1.5h				
(3) Nosocomiology and infection control. <ul style="list-style-type: none"> • Types of hospital acquired infections • Infection control measures used to prevent nosocomial infection • Health care workers 	2h				

protection & vaccination <ul style="list-style-type: none"> • Health care acquired infections • Sterilization & disinfection 					
(4)clinical microbiology: <ul style="list-style-type: none"> • PUO • Opportunistic infection • Blood born diseases 	1h				
(5) virology: <ul style="list-style-type: none"> • Oncogenic viruses • Hepatitis • HIV 	1h				
					7.5 h

(6) Teaching methods:

4.1. Power point presentation.

(7) Assessment methods:

5.1. Written and MCQ exams for assessment of knowledge and intellectual skills.....etc)

5.2. Oral exam for assessment of knowledge and intellectual skills.....etc)

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

Assessment schedule:

Assessment 1: Final exam week/month: 25th week

Percentage of each Assessment to the total mark.

MCQ exam : 12 marks

Written exam: 48 marks

Oral exam. 40 marks

(8) References of the course.

6.1: Hand books: Medical Microbiology and Immunology, Faculty of Medicine, Mansoura University

6.2: -Text books: Topley and Wilsons Microbiology and microbial infection,8 Volume,2005 10th Edition

- Jawetz, Melnick and Adelbergs, Medical Microbiology 2004, 23rd Edition

(9) Facilities and resources mandatory for course completion.

-Lectures Halls.

-Data Show.

Course coordinator: Prof. Sameh Shamaa

Prof. Mohamed Nasr Mabed

Prof. Emad Azmy

Head of hematology unit: Prof. Mohamed Nasr Mabed

Head of the department: Prof. Salah El-Gamal

Date of 1st approval: 22/12/2010

Date of last approval: 30/3/2016