



COURSE SPECIFICATION

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Program offering the course.	Microbiology
(2) Department offering the program.	General surgery
(3) Department responsible for teaching the course.	Microbiology
(4) Part of the program.	First Part Master degree General Surgery
(5) External evaluator(s)	Prof. Dr. Alaa Khalil Zagazig Faculty of Medicine
(6) Date of approval by the Department's council	27/5/2013
(7) Date of last approval of program specification by Faculty council	9/8/2016
(8) Course title.	Microbiology
(9) Course code.	SUR 507
(10) Total teaching hours.	15

(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 prepare the candidates to acquire the required knowledge, skills and clinical applications of microbiology that are relevant to the general surgical practice.
- 2- To enable the candidate to integrate the data of microbiology properly in the daily practice of Surgery and to incorporate the findings of clinical examination and microbiological investigations properly for the optimal management for the surgical patient.

Within the overall aim, the objectives of the Program are as follows.

1. Teaching the basic medical science related to Clinical surgical practice with concern to the microbiological aspects of the surgical patient and its relation to the management.
2. Integrate different aspects of clinical microbiology with other surgical factors that may play a role in many related diseases.
3. Teach the candidate how to communicate and interpret data of culture and sensitivity tests and how to reach to a conclusion about the most suitable antibiotic in the cases of surgical infections.
4. Educate the candidate the bacteriological basis of different surgical infections.

(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 recognize the responsible pathogens for different surgical infections, how to recognize them clinically and the required laboratory investigations to confirm that diagnosis.
- A2. Recognize the essential mechanisms of action of different antibiotics (chemotherapy) and the different mechanism of resistance to their actions
- A3. Explain the basic and updated methods of sterilization and disinfection and the rational of each.
- A4. Explain the basic aspects of immunological response and reactions to different pathogens or allergens.
- A5. To recognize the microbiological basis for opportunistic and noso-comial infections
- A6- Explain the immunological basis for transplantation including the required investigations for tissue histocompatibility and the mechanisms of rejection.

2- Intellectual activities (I)

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

B- Intellectual skills

B1. Determine the proper laboratory test for surgical infections.

(3) Course content:

Subjects	Lectures	Clinical	Laborator	Field	Total Teaching Hours
• Chemotherapy, prophylaxis , resistance & Growth curve • Sterilization & disinfection • Extrachromosomal elements (plasmids) • Basic immunology • Clinical immunology – Transplantation – Tumors • Postoperative wound infection • Septicemia • Nasocomial infections	15	None	None	None	15

(4) Teaching methods:

4.1. Lectures

(5) Assessment methods:

5.1: written exam for assessment of knowledge and intellectual activities.

5.2. M.C.Q exam for assessment of understanding and intellectual activities.

Assessment schedule:

Final exam at the end of the first semester.

MCQ exam at the end of the first semester.

Percentage of each assessment to the total mark.

Written exam: 72 marks

M.C.Q: 18 marks.

Oral: 60 marks

Other assessment without marks: logbook

(6) References of the course.

6.1. Hand books: Departmental book

6.2. Text books: Text Book of Microbiology (Duthie ES)

6.3. Journal

6.1. Websites: <http://textbookofbacteriology.net/>

6.1. Others

(7) Facilities and resources mandatory for course completion.

Lecture halls

(8) Evaluation of Program's intended learning outcomes (ILOs).

Evaluator	Tools*	Signature
Internal evaluator (s) Prof.Dr. Mohamed Farid Prof.Dr.Mohamed Abdelwahab Prof.Dr. Moh. Diaa El-Zawahry	Focus group discussion Meetings	
External Evaluator (s) Prof.Dr. Alaa khalil	Reviewing according to external evaluator checklist report.	
Senior student (s)	none	
Alumni	none	
Stakeholder (s)	none	
Others	none	

* TOOLS= QUESTIONNAIRE, INTERVIEW, WORKSHOP, COMMUNICATION, E_MAIL

We certify that all information required to deliver this program is contained in the above specification and will be implemented. All course specification for this program are in place.

Program coordinator:

Dr. Sameh Hany Emile

Lecturer of General Surgery. Mansoura University

Signature & date:

Head of the department:

Prof. Dr. Nazem Shams

Professor of General and surgical oncology. Mansoura University

Signature & date:

Dean:

Prof.Dr. El-Said Abdelhady

Signature & date:

Executive director of the quality assurance unit:

Prof.Dr. Seham Gad El-Hak

Signature & date: