



COURSE SPECIFICATION

MSc Pediatrics –First part

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course.	MSc Pediatrics (PED 500)
(2) Department offering the programme.	Pediatrics
(3) Department responsible for teaching the course.	Microbiology
(4) Part of the programme.	First Part – Microbiology & Immunology
(5) Date of approval by the Department`s council	27/4/2016
(6) Date of last approval of programme specification by Faculty council	9-8-2016
(7) Course title.	Microbiology & Immunology
(8) Course code.	PED 507
(9) Total teaching hours.	7.5 hrs
(10) Credit hours	0.5 hours

(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)

Provide knowledge and understanding of the features common pediatric pathogens and common microbiological problems together with understanding of basics of immune defense mechanisms.

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A4.1. Define types and methods of disinfection and sterilization

A4.2. Delineate features, isolation and diagnosis of bacterial pathogens

A4.3. Specify features, isolation and diagnosis of common viral infections

A4.4. Outline common fungal infections.

A4.5. Underline diagnosis of common microbiologic problems in pediatrics such as sepsis, CNS infections, pneumonia, UTI and nosocomial infections.

A4.6. Delineate the different arms of immune defense, scenario of immune response and types of immune derangement and autoimmunity.

A4.7 Label the basics of DNA replication and RNA transcription and State its applications in clinical practice via genetic engineering , recombinant DNA technology and use of PCR in disease diagnosis.

B- Intellectual skills

B1. Integrate the basic science knowledge about different microorganisms into clinical practice to diagnose different infections.

B2. Predict the use of microbial genetics in advanced diagnosis and treatment of various diseases.

B3. Interpret normal and abnormal immune response.

Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Teaching Hours
General Microbiology	√				1.5
Microbial Genetics	√				1.5
Immunology	√				1.5
Clinical Microbiology	√				1.5
Nosocomial Infection and Infection Control	√				1.5

(3) Teaching methods:

- 4.1:.....Lectures.....
- 4.2:
- 4.3:
- 4.4:

(4) Assessment methods:

- 5.1:...Written..... for assessment of.....(knowledge, intellectual skills)
- 5.2:...Oral..... for assessment of.....(knowledge, intellectual skills)
- 5.3 MCQ for assessment of.....(knowledge, intellectual,)

Assessment schedule: Semester & Final Exam

Percentage of Assessment to the total mark: 100 marks (4.7% of total)

Written exam:.....48 marks.....

Clinical exam:.....

Oral exam:.....40 marks.....

Semester MCQ:... 12 marks.....

%:.....

Other types of assessment:.....%:.....

Other assessment without marks: No

(5) References of the course:

6.1: Hand books:...Book notes of Microbiology department.....

6.2: Text books....

3: Journals:.....

6.1: Websites:.....

6.1: Others:.....

(6) Facilities and resources mandatory for course completion:

– Lecture hall and data show

Course coordinator: Prof. Othman E. Soliman

Head of the department: Prof. Youssef Al-Tonbary

Date: