# COURSE SPECIFICATION
# Faculty of Medicine- Mansoura University

## (A) Administrative information

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|---|---|
| **(1) Program offering the course:** | **Master Degree of Public Health & Preventive Medicine** |
| **(2) Department offering the program:** | **Public Health & Community Medicine Department** |
| **(3) Department responsible for teaching the course:** | **Microbiology Department** |
| **(4) Part of the program:** | **First Part** |
| **(5) Date of approval by the Department`s council** | **27/3/2016** |
| **(6) Date of last approval of program specification by Faculty council** | |
| **(7) Course title:** | **Microbiology related to public Health** |
| **(8) Course code:** | **PHPM 507** |
| **(9) Credit hours** | **0.5 hour** |
| **(10) Total teaching hours:** | **3.5 lectures, 8 practical** |

## (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 support acquisition of basic knowledge related to preventive & control measures for common infectious diseases
2. To help students to gain awareness of potential emerging/threatening diseases & act as the first line of defense

### (2) Intended Learning Outcomes (ILOs):

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

**A- Knowledge & Understanding**

**A1:** Define Antimicrobial agents.
**A2**: Recognize different types of immunity.
**A3:**Identify routine, recommended, & potential vaccines
**A4:** Identify morphology, pathogenesis & diagnosis of the following bacteria: Staph. ,Strept., Neisseria, Mycobacteria, Salmonella, Brucella & Vibrio.
**A5**: Identify structure, mode of transmission, clinical picture & diagnosis of hepatitis viruses, herpes viruses, influenza virus & HIV virus.

**2- Intellectual activities (I)**

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

**B- Intellectual skills**

**B1:** Integrate principles of microbiology into prevention & control of infectious diseases

**C- Professional/practical skills**

**C1:** Utilize basic investigations (slide exam) for detecting infectious diseases of public health importance.
**C2:** : Develop skills in identifying gram positive & gram negative cocci & bacilli
**C3:** Develop skills in identifying different types of agar & cultures
**C4:** Develop skills in identifying different biochemical reactions of selected organisms.

**D- Communication & Transferable skills**

**D1:** Search the literature to maximize their educational experiences.

## (3) Course content:

| Subjects | Lectures | Clinical | practical | Field | Total Teaching Hours |
|---|---|---|---|---|---|
| General microbiology | 0.5 | | 2 | | 3.5 lectures |
| Basic immunology & Vaccines | 1 | | | | 8 practical |
| Systematic bacteriology: | 1 | | 4 | | |
| Staph ,Strept, Neisseria, Mycobacteria, Salmonella , Brucella , Vibrio | | | | | |
| Medical virology : | | | 2 | | |
| 1-DNA: herpes , hepatitis | 1 | | | | |
| 2-RNA: influenza | | | | | |
| 3-HIV | | | | | |

## (4) Teaching methods:

1: Lectures 2. Practical lab. 3. Tutorial

## (5) Assessment methods:

1. Written Examination: structured essay question for assessment of knowledge
2. Oral examination for assessment of intellectual skills
3. Practical examination for assessment of practical skills
4. MCQ at the end of the course
5. Log book.

**Assessment schedule:**

MCQ examination: 6 marks
Final Written examination: 24 marks
Practical examination: 10 marks
Oral examination: 10 marks
Other assessment without marks: log book assessment.

## (6) References of the course:

**Hand books:** Course notes: books authorized by department

## (7) Facilities & resources mandatory for course completion:

□ Lecture rooms: available in the Microbiology department
□ Practical Lab: available in the Microbiology department
□ Candidates logbook
□ Program Specification and Handbooks
□ Extensive library and other learning resources

**Course coordinator: Prof. Dr. Mohamed Azmy Khafagy**

**Head of the department: Prof. Dr. Mohamed Azmy Khafagy**

**Date: 27/3/2016**