



## COURSE SPECIFICATION

### Faculty of Medicine- Mansoura University

#### (A) Administrative information

|   |  |
|---|--|
| (1) Program offering the course:                                      | MD degree of Public Health & Preventive Medicine.                        |
| (2) Department offering the program:                                  | Public health & Community Medicine Department                            |
| (3) Department responsible for teaching the course:                   | Public Health & Community Medicine Department                            |
| (4) Part of the program:  | Second 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:   | Public Health , Preventive Medicine& social Medicine (compulsory course) |
| (8) Course code:  | PHPM 18  |
| (9) Credit hours  | 23 credits lecture<br>15 practical                                       |
| (10) Total teaching hours:  | Lectures = 345<br>Practical = 450  |

## **(B) Professional information**

### **(1) Course Aims:**

The broad aims of the course are as follows:

- 1- To support acquisition of basic knowledge of epidemiology & preventive medicine.
- 2- Provide the candidate with practical skills relevant to further public health practice such as:
  - a- Applying basics of health economics.
  - b- Detection & investigation of important public health problems (communicable, non-communicable & nutrition).
  - c- Work effectively within a team.
- 3- Teach the candidate how to identify principles of Health care management.
- 4- Educate the candidate how Identify & review relevant laws & regulations regarding health system in Egypt.

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

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical & transferable skills.

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

#### **A- Knowledge & Understanding**

- A1:** Identify components of the organization, financing, & delivery of health services in Egypt.
- A2:** Explain new trends of prevention & control of communicable & non-communicable diseases
- A3:** Explain health policy formulation, process and steps.
- A4:** Recognize principles of family practice approach in Egypt.
- A5:** Recognize principles of mental health.
- A6:** Recognize updates in national & global primary health care programs.
- A7:** Identify principles of health care of vulnerable groups including: maternal & child health, Geriatric Health, Adolescent Health & Rural Health.
- A8:** Recognize recent trends & updates in quality management.
- A9:** Discuss interaction between nutrition & specific diseases & health problems.
- A10:** Recognize Food faddism, food toxicity, Food-food interaction & Drug-food interaction
- A11:** Recognize occupational health problems & principles of occupational health programs.
- A12:** Describe management of occupational health hazards in various settings.

#### **2- Intellectual activities (I)**

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

#### **B- Intellectual skills**

- B1:** Apply appropriate tools & emerging technologies to define, describe, & intervene health problems.
- B2:** Apply appropriate health promotion, disease prevention, & control measures.
- B3:** Analyze resources required for program implementation
- B4:** Apply principles of planning, staffing, managing and evaluation in a health care facility or program.
- B5:** Advise on management of occupational health hazards in various settings.
- B6:** Recommend and promote safety and injury prevention measures.

### **C- Professional/practical skills**

- C1:** Able to assess, monitor & evaluate the health system.
- C2:** Able to assess Community health needs & priority setting in health planning
- C3:** Able to design, implement & evaluate a health program to deal with a specific health problem.
- C4:** Apply laws & regulations that impact healthcare organizations (e.g., patient consent, confidentiality)
- C5:** Measure the quality of services.
- C6:** Apply general approaches to quality management problems.
- C7:** Plan diet for patients with specific diseases.

### **D- Communication & Transferable skills**

- D1:** Think & respond properly when solving public health problems.
- D2:** Effectively communicate diagnosis, prognosis & treatment probabilities to target individuals.
- D3:** Develop written & oral presentations based on statistical analyses for both public health professionals & other audiences.
- D4:** Develop presentation skills & working as team for practicing communication skills.
- D5:** Search the literature to maximize their educational experiences.

**(3) Course content: Compulsory courses: 4 semesters ( third, fourth, fifth, & sixth)**

| Subjects   | Lectures   | Practical  | Field | Total teaching hours         |
|--|--|------------|-------|------------------------------|
| <b>Principles of Preventive Medicine. (PHPM 618 Ta)</b> <ul style="list-style-type: none"> <li>• Public health &amp; preventive medicine trends &amp; guideposts.</li> <li>• Epidemiology &amp; public health</li> <li>• Public health &amp; population</li> <li>• Public health informatics</li> <li>• Health disparity</li> </ul>  | <b>30</b><br>6<br>6<br>6<br>6<br>6   | None       | None  | 30 lectures                  |
| <b>Local &amp; global comparative Epidemiology of Communicable &amp; Non Communicable diseases:.(PHPM 518T b)</b> <ul style="list-style-type: none"> <li>• Overview of communicable diseases</li> <li>• Droplet infections</li> <li>• Food borne diseases</li> <li>• Contact infections</li> <li>• Arthropod borne diseases</li> <li>• overview of non-communicable diseases</li> <li>• Epidemiology of coronary heart diseases</li> <li>• Epidemiology of diabetes</li> <li>• Epidemiology of cancer</li> </ul>   | <b>60</b><br>6<br>14<br>10<br>8<br>6<br>5<br>3<br>3<br>5   | <b>120</b> | None  | 60 lectures<br>120 practical |
| <b>PHC, Reproductive Health, MCH, National &amp; Global Health Program: (PHPM 518 Tc)</b> <ul style="list-style-type: none"> <li>• Updated over view of health systems in Egypt</li> <li>• Current Organization chart of the Ministry of health &amp; functions</li> <li>• Egypt's health strategies &amp; components</li> <li>• New law and health insurance system in Egypt</li> <li>• Health policy formulation, process and steps</li> <li>• Community health needs &amp; priority setting in health planning</li> <li>• Updated in Implementation of health strategies in Egypt</li> <li>• Assessment, monitoring and evaluation in the health system</li> <li>• Levels of health care in Egypt</li> <li>• Health sector reform in EGYPT towards improving quality of care</li> <li>• Basic benefit package and equity in health care</li> <li>• Referral in the health system</li> <li>• Primary Health Care (PHC): Definition. Principles and concepts</li> <li>• Health For ALL, a global slogan</li> <li>• History of essential, basic health care in Egypt</li> <li>• Functions of PHC, elements and components</li> <li>• PHC main programs and services</li> <li>• PHC delivery sites and health providers</li> <li>• Assessment of PHC services, standards, indicators</li> </ul> | <b>88</b><br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>6<br>4<br>4<br>4<br>4<br>4<br>4<br>6<br>6<br>6<br>6<br>6 | <b>120</b> | None  | 88 lectures<br>120 practical |

| Subjects   | Lectures                                     | Practical  | Field | Total teaching hours        |
|--|--|------------|-------|-----------------------------|
| <b>Principles of Family Medicine. (PHPM 618 Td)</b><br><ul style="list-style-type: none"> <li>• Family practice approach in Egypt</li> <li>• Family health records</li> <li>• Assessment of family practice &amp; PHC services</li> </ul>  | <b>22</b><br>6<br>6<br>10                    | <b>60</b>  |       | 22 lectures<br>60 practical |
| <b>Principles of Mental Health. (PHPM 618 Tg)</b><br><ul style="list-style-type: none"> <li>• Interaction among physical &amp; mental health problems</li> <li>• Risk factors related to mental health</li> <li>• Impact of mental illness on families , communities &amp; health system</li> <li>• Mental health program</li> </ul>   | <b>18</b><br>4<br>4<br>4<br>6                | None       | None  | 18 lectures                 |
| <b>Health Care of Vulnerable Groups. (PHPM 618 Th)</b><br><ul style="list-style-type: none"> <li>• Geriatric Health.</li> <li>• Adolescent Health.</li> <li>• Rural Health.</li> </ul>   | <b>22</b><br>6<br>10<br>6                    | <b>60</b>  | None  | 22 lectures<br>60 practical |
| <b>Principles of Occupational &amp; Industrial Medicine (PHPM 618 Tf)</b><br><ul style="list-style-type: none"> <li>• Principles of occupational health services program.</li> <li>• Hazards of women employment.</li> <li>• Hazards of child labor.</li> <li>• Mental health at work.</li> <li>• Occupational liver disorders.</li> <li>• Other occupational disorders including cancer.</li> <li>• Molecular biology in occupational medicine epidemiology.</li> </ul>   | <b>30</b><br>4<br>4<br>4<br>4<br>4<br>6<br>4 | None       | None  | 30 lectures                 |
| <b>Principles of Nutrition &amp; Relation to health &amp; disease. (PHPM 618 Te)</b><br><ol style="list-style-type: none"> <li>1. Approaches to control &amp; prevent nutritional problems</li> <li>2. Nutritional survey</li> <li>3. Food faddism &amp; food toxicity</li> <li>4. Food-food interaction &amp; Drug-food interaction</li> <li>5. Relation between Nutrition and:<br/>Infection &amp; Fever - Cardiac diseases - Cancer - Diabetes<br/>Hypertension - Renal disease - Liver disease &amp; hyperlipidemia<br/>HIV - Mental &amp; Psychoneurotic disorders</li> <li>6. Nutritional rehabilitation &amp; supplementation</li> <li>7. Methods of therapeutic feeding</li> </ol> | <b>35</b><br>4<br>4<br>4<br>4<br>9<br>5<br>5 | <b>30</b>  | None  | 35 lectures<br>30 practical |
| <b>Health Care Management. (PHPM 618 Ti)</b><br><ul style="list-style-type: none"> <li>• Management functions</li> <li>• Management and leadership</li> <li>• Risk management in healthcare</li> <li>• Utilization management in healthcare.</li> </ul>  | <b>20</b><br>5<br>5<br>5<br>5                | <b>30</b>  | None  | 20 lectures<br>30 practical |
| <b>Quality Management. (PHPM 618 Tj)</b><br><ul style="list-style-type: none"> <li>• Definition of quality</li> <li>• Dimensions of quality in health care</li> <li>• Quality assurance</li> <li>• Steps of Quality assurance</li> <li>• Standards &amp; indicator</li> </ul>  | <b>20</b><br>4<br>4<br>4<br>4<br>4           | <b>30</b>  | None  | 20 lectures<br>30 practical |
| <b>Total teaching hours</b>  | <b>345</b>                                   | <b>450</b> |       |                             |

### Semesters of second part (MD degree)

| Semester           | Topics  |
|--------------------|---|
| <b>Semester 3:</b> | 1. Principles of Preventive Medicine.<br>2. Local & global comparative Epidemiology of Communicable & Non Communicable diseases   |
| <b>Semester 4:</b> | 1. PHC, Reproductive Health, MCH, National & Global Health Program<br>2. Principles of Family Medicine.<br>3. Health Care of Vulnerable Groups.<br>4. Principles of Mental Health |
| <b>Semester 5:</b> | 1. Health Care Management including economics.<br>2. Quality Management.<br>3. Principles of Occupational & Industrial Medicine   |
| <b>Semester 6:</b> | 1. Principles of Nutrition & Relation to health and disease.<br>2. <b>Elective course</b>   |

#### (4) Teaching methods:

- 4.1: Lectures      4.2: Seminars      4.3: Conferences      4.4: SDL  
4.5: Tutorial      4.6: Workshops

#### (5) Assessment methods:

Assessment schedule:

Assessment 1: written exam at 36<sup>th</sup> month of registration of MD degree

Assessment 2: oral exam at 36<sup>th</sup> month of the registration of MD degree

Assessment 3: MCQ Exam at the end of each semester.

#### Marks of each assessment:

Written: 240 Marks

Oral exam: 100 Marks

MCQ: 60 Marks

#### (6) References of the course:

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

**6.2: Text books:** Maxey Rosenau text book (Wallace Ed.).

**6.3: Journals:** Publications of national & international public health organizations; EMOHP, WHO, CDC & APHA.

**6.1: Websites:**

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

- Induction course introducing study skills.
- Candidates logbook.
- Program Specification & Handbooks.
- Extensive library & other learning resources.
- Computer laboratories with a wide range of software.
- Intranet with a wide range of learning support material.

**Course coordinator: Prof. Nadia Montaser**

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

**Date: 27/3/2016**