



## COURSE SPECIFICATION

### Faculty of Medicine- Mansoura University

#### (A) Administrative information

(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:	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
(8) Course code:	PHPM 518
(9) Credit hours	17 hours 14 hours Field
(10) Total teaching hours:	Lectures (255) Field visits & training (840)

## **(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- Demonstrate 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- Identify principles of Health care management.
- 4- 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:** Define the prevalent communicable health problems in the community.
- A2:** Define the prevalent non-communicable health problems in the community.
- A3:** Identify different healthcare programs.
- A4:** Explain principles of prevention & control programs of different health problems
- A5:** Explain the relationship of nutrition with health and disease.
- A6:** Recognize healthcare system management concepts & functions in the context of quality assurance.
- A7:** Recognize occupational health problems & principles of occupational health programs.

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

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

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

- B1:** Adopt principles of public health & preventive medicine to various health problems.
- B2:** Interpret epidemiological findings into recommendations for a specific intervention.
- B3:** Detect resources required for prevention and control program implementation.
- B4:** Test effectiveness of health program implemented to certain health problem.
- B5:** Differentiate various healthcare levels (primary, secondary, tertiary).
- B6:** Employ the principles of nutritional care for different vulnerable groups.
- B7:** Analyze resources required for program implementation.
- B8:** Test effectiveness of a prevention & control program implemented to certain health problem.

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

- C1:** Evaluate individual and population health problems.
- C2:** Design, implement and evaluate health services for both individuals and populations health problems.
- C3:** Utilize the available resources to formulate a prevention and control program
- C4:** Develop skills in management and administration of appropriate health services.
- C5:** Be able to use objective measurable criteria such as epidemiological impact and cost effectiveness.
- C6:** Develop skills in setting standards and designing indicators for quality assurance process
- C7:** Evaluate the performance of healthcare facility in terms of standards and indicators
- C8:** Perform risk assessment for different environmental health problems
- C9:** Apply health behavioral theories for different health problems
- C10:** Apply appropriate communication and health education strategies for different health problems.

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

- D1:** Develop communication skills and express themselves freely and adequately.
- D2:** Develop team skills during student's presentations.
- D3:** Use computers to calculate various indices and indicators
- D4:** Search the literature to maximize their educational experiences.
- D5:** Adopt scientific principles of solving public health problems.
- D6:** Present information regarding epidemiology of a specific health problem (communicable/  
Non-communicable).

**(3) Course content: Compulsory courses :** given on 3 semesters (2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup>), over 45 weeks  
**Semester 1 (6 credit hours per week = 5 lectures + 4 hours field visits & training/ week)**

Subjects	Lectures	Practical	Field
<b>Principles of Preventive Medicine (PHPM 518T a)</b>	<b>18</b>	<b>Non</b>	<b>Non</b>
Epidemiologic Determinants	2		
Diseases Classification	2		
Changes In Diseases Trends	2		
Inequalities in health	2		
Public health measures & sources of & disease burden	2		
Health Information Systems	2		
Specific Prevention measures	2		
Immunity	2		
Health Hazard Appraisal & Risk Reduction	2		
<b>Epidemiology of Communicable &amp; Non Communicable diseases (PHPM 518T b)</b>	<b>72</b>	<b>Non</b>	<b>300</b>
1. Communicable Disease Epidemiology: Introduction & Key spots	2		<b>Fever &amp; chest hospitals</b>
2. Principles of General Epidemiology	2		
3. Communicable Disease Epidemiology overview.	2		
4. Immunization	2		<b>Covered by The activity Training Logbook</b>
5. Epidemic Investigation & control	2		
6. Surveillance & Control of Infectious Disease	2		
7. Communicable Diseases prevention	2		
8. Hospital Infections	2		
9. Immunizing Agents & Cold Chain	2		
10. Traveler Health problem	2		
11. Emerging & Reemerging infections	2		
12. Disease elimination & eradication	2		
13. epidemiological transition & trends in disease burden	2		
14. Droplet infections epidemiology & preventive strategies	2		
15. Tuberculosis: Epidemiology & prevention & control	2		
16. Arthropod borne Dis. Epidemiology & prevent strategies	3		
17. parasitic diseases: Epidemiology & prevention & control	2		
18. HIV worldwide & preventive strategies for its control	2		
19. Contact Diseases: epidemiology & preventive strategies	2		
20. Schistosomiasis: Trends, risk factors, prevention & control	2		
21. Viral Hepatitis burden, policies & strategies of control.	3		
22. Malaria: Epidemiology, prevention & control measures.	2		
23. Food born infections Epidemiology & prevention & control	3		
24. Poliomyelitis: Epidemiology, & prevention & control	2		
25. Non-communicable disease: epidemiology of risk factors	2		
26. Diabetes Mellitus: Epidemiology & control strategies	3		
27. Cancer: Epidemiology, & prevention & control	2		
28. Work & Environmental related Cancers	3		
29. Resp. diseases: Epidemiology, & prevention & control.	3		
30. Injury, violence & domestic violence.	2		
31. Hepatic Diseases: Epidemiology , prevention & control	3		
32. Disabilities Epidemiology & prevention & control	3		

**Semester 3 (6 credit hours per week = 5 lectures + 4 hours field visits & training/ week)**

Subjects	Lectures	Practical	Field
<b>PHC, Reproductive Health, MCH, National &amp; Global Health Program (PHPM 518T c)</b>	<b>47</b>	<b>Non</b>	<b>200</b>
History of health care in Egypt	2		
Organization of health care	2		
Levels of health care	3		
Health sector reform	4		
Primary health care & BB package	4		
Health insurance system	2		
Assessment of health care	6		
Reproductive health	6		
Maternal health	6		
Family planning	6		
Child health	6		
<b>Principles of Family Medicine (PHPM 518T d)</b>	<b>6</b>	<b>Non</b>	<b>200</b>
▪ Family medicine model in Egypt	3		
▪ Assessment of family practice	3		
<b>Health Care of Vulnerable Groups. (PHPM 518T h)</b>	<b>12</b>	<b>Non</b>	<b>100</b>
▪ Geriatric Health.	2		
▪ Adolescent Health.	6		
▪ Rural Health.	4		
<b>Principles of Occupational &amp; Industrial Medicine. (PHPM 518T f)</b>	<b>22</b>	<b>Non</b>	<b>non</b>
▪ Introduction to occupational health	1		
▪ Occupational infections & vaccinations.	2		
▪ Occupational physical hazards	4		
▪ Occupational chemical hazards	4		
▪ Toxicology of pesticides	3		
▪ Psychosocial aspects of work	2		
▪ Occupational reproductive health	2		
▪ Work, industry & general environment	2		
▪ Bioethics in occupational health research & practice	3		
<b>Principles of Mental Health. (PHPM 518T g)</b>	<b>3</b>	<b>Non</b>	<b>Non</b>
▪ Risk factors related to mental health	1		
▪ Impact of mental illness on families , communities & health care system	1		
▪ Mental health program	1		

**Semester 4 (5 credit hours per week = 4 lectures + 4 hours field visits & training/ week)**

<b>Subjects</b>	<b>Lectures</b>	<b>Practical</b>	<b>Field</b>
<b>Principles of Nutrition &amp; Relation to health &amp; disease. (PHPM 518T e)</b>	<b>49</b>	<b>non</b>	<b>40</b>
▪ Energy & macronutrients	4		
▪ Feeding of pregnant & lactating	4		
▪ Feeding of infants & preschool children	4		
▪ Feeding of school children	2		
▪ Feeding of adolescents	2		
▪ Feeding of elderly	3		
▪ Nutritional indicators for different ages	3		
▪ Assessment of nutritional status	4		
▪ Effect of lifestyle on nutrition	4		
▪ Effect of malnutrition on QOL	2		
▪ Nutritional education	3		
▪ Excess feeding "food toxicity"	4		
▪ Food-food interactions	4		
▪ Malnutrition: prevention & control	4		
▪ Dietary survey	2		
<b>Health Care Management including economics. (PHPM 518T i)</b>	<b>14</b>	<b>non</b>	<b>Non</b>
▪ Health Systems, Policy & Financing	2		
▪ Management Challenges of Healthcare	2		
▪ Management functions	2		
▪ Principles of management	2		
▪ Planning	2		
▪ Implementation	2		
▪ Evaluation	2		
<b>Quality Management (PHPM 518T j)</b>	<b>12</b>	<b>non</b>	<b>Non</b>
▪ Definition of quality	2		
▪ Dimensions of quality in health care	2		
▪ Quality assurance	2		
▪ Steps of Quality assurance	3		
▪ Standards & indicator	3		
<b>Total teaching hours</b>	<b>225</b>	<b>non</b>	<b>840</b>

**(4) Teaching methods:**

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|----------------|--------------|
| 1. Lectures    | 2. Seminars  |
| 3. Conferences | 4. SDL       |
| 5. Tutorial    | 6. Workshops |

### **(5) Assessment methods:**

1. MCQ Examination (for assessment of knowledge & intellectual skills)
2. Written Examination (for assessment of knowledge & intellectual skills)
3. Oral examination (for assessment of knowledge, intellectual skills and Transferable skills)
4. Practical examination: MCQ at the end of each semester.
5. Log book.

### **Assessment schedule:**

Final exam: (Total marks = 600)

MCQ exam: 60 marks

Written exam: 240 marks

Oral exam: 150 marks

OSPE Practical exam: 150 marks

Other assessment without marks: seminars and log book assessment.

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

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

**2. Text books:**

**Public Health & Preventive Medicine**, Wallace/Maxcy-Rosenau-Last, the McGraw-Hill Companies, Inc., 2008.

**Text Book of Public Health & Community Medicine**, Department of Community Medicine, AFMC, Pune in Collaboration with WHO, India Office, New Delhi, Gayo Enterprises, 2009.

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

Candidates & their learning are supported in a number of ways:

- Lecture rooms: available in the department
- Computer Lab: available in the department with a wide range of software
- Induction course introducing study skills
- Candidates logbook
- Program Specification & Handbooks
- Extensive library & other learning resources
- Intranet with a wide range of learning support material

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

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

**Date: 27/3/2016**