



PROGRAM SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Program Title & Code	Postgraduate degree of Public Health & Preventive Medicine.
(2) Final award/degree	Master degree
(3) Department (s)	Public Health & Community Medicine department
(4) Coordinators	Prof. Dr. Mohamed Azmy Khafagy
(5) External evaluator (s)	
(6) Date of approval by the Department`s council	27/3/2016
(7) Date of last approval of program specification by Faculty council	

(B) Professional information

(1) Program aims:

The broad aims of the Program are as follows:

To produce specialist in Public Health & Preventive Medicine who can:

- (1) Understand & utilize basic knowledge of epidemiology & preventive medicine, including basic knowledge related to microbiology & parasitology.
- (2) Use basics of epidemiology & biostatistics effectively & has the skills relevant to detection & investigation of public health problems including environmental & occupational health problems.
- (3) Understand & consider nutritional, ethical, cultural, & social issues related to health problems.
- (4) Understand & utilize the principles of communication & health care management.

(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 program, the candidate will be able to:

A- Knowledge & Understanding

- A1:** Understand basic definitions such as health, disease, community medicine & public health.
- A2:** Describe the spectrum & determinants of health.
- A3:** Define patterns & levels of healthcare, & different healthcare programs.
- A4:** Identify infectious cycles & methods of control of parasites & arthropods of public health significance.
- A5:** Understand basics of microbiology including types of immunity, vaccines & antimicrobial agents.
- A6:** Identify morphology, pathogenesis & diagnosis of the prevalent bacteria & viruses in Egypt.
- A7:** Describe the epidemiology of the prevalent health problems in the community.
- A8:** Explain principles of prevention & control programs of different health problems
- A9:** Discuss characteristics, advantages & disadvantages of different epidemiological studies.
- A10:** Discuss indications, criteria & steps of screening programs.
- A11:** Describe & understand basic statistical tests.
- A12:** Recognize different morbidity & mortality indices
- A13:** Discuss definition, types, & components of the environment & its effect on health & disease.
- A14:** how to prevent & control environmental problems (air, water, food)
- A15:** Recognize occupational health problems & principles of occupational health programs.
- A16:** Explain the relationship of nutrition with health & disease.
- A17:** Discuss social & behavioral determinants of health & disease.
- A18:** Explain appropriate communication & health education strategies
- A19:** Recognize healthcare system management concepts & functions.
- A20:** Recognize value & importance of therapeutic diet or dietetics.
- B21:** Adopt principles & methods of therapeutic feeding.
- A22:** Recognize healthcare system management & leadership concepts.
- A23:** Understand hospital statistics & medical records.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Aim 1	•	•	•	•	•	•																		
Aim 2							•	•	•	•	•	•	•	•	•									
Aim 3																•	•			•	•			
Aim 4																		•	•			•	•	

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:** Integrate principles of microbiology into prevention & control of infectious diseases
- B3:** Apply the suitable epidemiologic strategy for the research problem
- B4:** Calculate indices of a specific health problem.
- B5:** Interpret epidemiological findings into recommendations for a specific intervention.
- B6:** Detect requirements of environmental health in different health problems.
- B7:** Employ the principles of nutritional care for different age groups.
- B8:** Detect resources required for prevention & control program implementation.
- B9:** Test effectiveness of health program implemented to certain health problem.
- B10:** Select appropriate communication & health education strategies for different health problems.
- B11:** Adopt principles & methods of therapeutic feeding.
- B12:** Develop skills in management & administration of appropriate health services.
- B13:** Use objective measurable criteria such as epidemiological impact & cost effectiveness.

	1	2	3	4	5	6	7	8	9	10	11	12	13
Aim 1	•	•											
Aim 2			•	•	•	•							
Aim 3							•				•		
Aim 4								•	•	•		•	•

C- Professional/practical skills

- C1:** Develop skills to evaluate individual & population health problems.
- C2:** Design, implement & evaluate health services for both individuals & populations health problems.
- C3:** Utilize the available resources to formulate a prevention & control program.
- C4:** Develop skills in identifying selected micro-organisms & parasites.
- C5:** Carry out an epidemiological research.
- C6:** Perform statistical analysis of data.
- C7:** Perform risk assessment for different environmental health problems
- C8:** Select study design appropriate to its objectives.
- C9:** Apply appropriate statistical tests when needed.
- C10:** Apply nutritional standards to different vulnerable groups.
- C11:** Analyze specific health problems taking into account nutritional & social issues.
- C12:** Evaluate the performance of healthcare facility in terms of standards & indicators
- C13:** Apply appropriate communication & health education strategies for different health problems
- C14:** Develop skills in management & administration of appropriate health services.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Aim 1	•	•	•	•										
Aim 2					•	•	•	•	•					
Aim 3										•	•			
Aim 4												•	•	•

D- Communication & Transferable skills

- D1:** Develop communication skills & express themselves freely & adequately.
- D2:** Develop team skills during student’s presentations.
- D3:** Use computers to calculate various indices & 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.

(3) Academic standards:

Academic standards for the program are attached in Appendix I. in which **NARS** issued by the National Authority for Quality Assurance & Accreditation in Education are used.

A table of comparison between the ARS, NARS and program ILOS is attached in [Appendix II](#).

(4) Curriculum structure & contents:

a- Duration of the program (in years or months): 36 months

b- Program structure:

The program consists of two parts; the first part composed of six courses which are: Principles of Public Health & Preventive Medicine, Behavioral & Social Health, Epidemiologic Methods & Biostatistics, Environmental Health, Parasitology related to public Health, Microbiology related to public Health & second part composed of single courses which is **Public Health & Preventive Medicine**

Candidates should fulfill a total of **45** credit hours:

1. Number of credit hours: **First part 5 - Second part: 18 - Thesis: 6.**

Semesters of the second part (master degree)

Semester	Topics
Semester 1:	1. Principles of Preventive Medicine. (PHPM 518T a) 2. Epidemiology of Communicable & Non Communicable diseases. (PHPM 518T b)
Semester 2:	1. PHC, Reproductive Health, MCH, National & Global Health Program. (PHPM 518T c) 2. Principles of Family Medicine. (PHPM 518T d) 3. Principles of Mental Health. (PHPM 518T g) 4. Health Care of Vulnerable Groups. (PHPM 518T h) 5. Principles of Occupational & Industrial Medicine. (PHPM 518T f)
Semester 3:	1. Principles of Nutrition & Relation to health & disease. (PHPM 518T e) 2. Elective courses(one of the following): 3. Health Care Management including economics. (PHPM 518T i) 4. Quality Management. (PHPM 518T j) 1. Clinical nutrition & dietetics (PHPM 518 CND) 2. Healthcare management & Administration (PHPM 518 HMA)

(5) Program courses:

First Part:

Course Title (Course Code)	NO. of hours per week				Total teaching hours	ILOs covered	
	Theoretical		Practical	Field			Total Credit
	Lectures	seminars					
A- Compulsory courses:							
Principles of Public Health & Preventive Medicine (PHPM 518 PPH)	1				1	15 lectures A1-3 B1 D1-6	
Behavioral & Social Health (PHPM 518 BSH)	1				1	15 lectures A17 B1 D1,2,5	
Epidemiologic Methods & Biostatistics (PHPM 518 EpiSt1)	0.5		0.5		1	7.5 lectures 15 practical A9-12 B3-5 C5,6,8,9 D1,2,3,6	
Environmental Health (PHPM 518 ENV)	1				1	15 lectures A13,14 B6 C7 D4,5,6	
Parasitology related to public Health (PHPM 508)	0.25		0.25		0.5	3.5 lectures 7.5 practical A4 B2 C4 D1,2,4,5	
Microbiology related to public Health (PHPM 507)	0.25		0.25		0.5	3.5 lectures 7.5 practical A5,6 B2 C4 D4	
Total	4.0		1.0		5	44.5 lectures 30 practical	
B- Elective courses: none							

Second Part:

Course Title (Course Code)	NO. of hours per week				Total teaching hours	ILOs covered	
	Theoretical		Practical	Field			Total Credit
	Lectures	seminars					
A- Compulsory courses: (thesis will be included in this table)							
Public Health & Preventive Medicine (PHPM 518 T)	5 per week in Semester 2&3 4 per week in Semester 4			1 per week per semester	6 per week in Semester 2&3 5 per week in Semester 4	Per semester: Lectures:75 (60 in 4 th) Field: 60 A7,8,15, 16,18,19 B7-10 C1-3,10-14 D1-6	
B- Elective courses:							
Clinical nutrition & dietetics (PHPM 518 CND)	1				1	15	
Health care management & administration (PHPM 518 HMA)	1				1	A3,19,23 B12,13 D7-11	

Program -Courses ILOs Matrix

Program ILOs are enlisted in the first row of the table (by their code number: a1, a2.....etc), then the course titles or codes are enlisted in first column, & an "x" mark is inserted where the respective course contributes to the achievement of the program ILOs in question.

P.S. All courses` specifications are attached in Appendix III.

Course Title/Code	A																							B																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	1	2	3	4	5	6	7	8	9	10	11	12	13										
Principles of Public Health & Preventive Medicine PHPM 518 PPH	•	•	•																					•																						
Behavioral & Social Health PHPM 518 BSH																	•							•																						
Epidemiologic Methods & Biostatistics PHPM 518 EpiSt1									•	•	•	•														•	•	•																		
Environmental Health PHPM 518 ENV													•	•															•																	
Parasitology related to public Health PHPM 508				•																						•																				
Microbiology related to public Health PHPM 507					•	•																				•																				
Public Health & Preventive Medicine PHPM 518 T							•	•							•	•		•	•											•	•	•	•													
Clinical nutrition & dietetics (elective) PHPM 518 CND																				•	•																					•				
Healthcare management & Administration (elective) PHPM 518 HMA																						•	•																			•	•			

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P.S. All courses` specifications are attached in Appendix III.

Course Title/Code	C														D					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	1	2	3	4	5	6
Principles of Public Health & Preventive Medicine PHPM 518 PPH															•	•	•	•	•	•
Behavioral & Social Health PHPM 518 BSH															•	•			•	
Epidemiologic Methods & Biostatistics PHPM 518 EpiSt1					•	•		•	•						•	•	•			•
Environmental Health PHPM 518 ENV							•											•	•	•
Parasitology related to public Health PHPM 508				•											•	•		•	•	
Microbiology related to public Health PHPM 507				•														•		
Public Health & Preventive Medicine PHPM 518 T	•	•	•							•	•	•	•	•	•	•	•	•	•	•
Clinical nutrition & dietetics (elective) PHPM 518 CND															•		•	•		
Healthcare management & Administration (elective) PHPM 518 HMA															•		•	•		

(6) Program admission requirements:

- **General requirements:** According to the faculty postgraduate bylaws Appendix IV.
- **Specific requirements (if applicable):** No specific requirements

(7) Regulations for progression & program completion:

- Student must complete minimum of 45 credit hours in order to obtain the master degree, which include the courses of first & second parts, essay & activities of the log book.
- Courses description are included in Appendix III.
- Registration for the master essay is allowed 6 months from the day of registration to the program & must fulfill a total of 8 credit hours including material collection, laboratory work, patients follow-up, & meetings with supervisors.

Log book fulfillment:

- Student must fulfill a minimum of 12 credit of log book activities.
- Lectures & seminars of the previously described courses (page 11&12) must be documented in the log book & signed by the lecturer.
- Works related to thesis must be documented in the log book & signed by the supervisors.
- Any workshops, conferences & scientific meetings should be included in the log book

Final exam:

First part

إجمالي	الدرجة			الاختبار	المقرر
	عملي	شفهي	تحريري		
		٤٠	٦٠	إختبار تحريري مدته ثلاث ساعات + إختبار شفهي	مبادئ الصحة العامة والطب الوقائي
		٤٠	٦٠	إختبار تحريري مدته ثلاث ساعات + إختبار شفهي	العلوم السلوكية والاجتماعية وعلاقتها بالصحة العامة
	٢٠	٢٠	٦٠	إختبار تحريري مدته ثلاث ساعات + إختبار شفهي + إختبار عملي	الإحصاء الطبي وعلم طرق دراسة الوبائيات
		٤٠	٦٠	إختبار تحريري مدته ثلاث ساعات + إختبار شفهي	دراسة البيئة وعلاقتها بالصحة العامة
	١٠	١٠	٣٠	إختبار تحريري (ورقتان) مدته ثلاث ساعات + إختبار شفهي + إختبار عملي	الميكروبيولوجيا
	+	+	+		والطفيليات وعلاقتها بالصحة العامة
٥٠٠	إجمالي الدرجة				

Second part:

إجمالي	الدرجة			الاختبار	المقرر
	عملي	شفهي	تحريري		
	١٥٠	١٥٠	١٥٠	إختباران تحريريان مدة كل منهما ثلاث ساعات + إختبار شفهي + بحث ميداني حقلني عن احدى الخدمات الصحية ذات العلاقة	الصحة العامة والطب الوقائي والاجتماعي
	٣٥	١٥	٢٠		إختبار تحريري مدته ساعة + إختبار شفهي
٦٣٥	إجمالي الدرجة				

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

Evaluator	Tools*	Sample size
Internal evaluator (s) Prof. Dr. Olfat Farag Prof. Dr. Nadia montaser	Focus group discussion	Not yet
External Evaluator (s)	Evaluation checklist	Not yet
Senior student (s)	None	Not yet
Alumni	None	Not yet
Stakeholder (s)	None	Not yet
others	None	Not yet

* Tools= questionnaire, interview, workshop, communication, e-mail

We certify that all information required to deliver this program is contained in the above specification & will be implemented. All course specification for this program are in place.	
Program coordinator: Prof. Dr. Mohamed Azmy Khafagy	Signature & date:
Head of the department Prof. Dr. Mohamed Azmy Khafagy	Signature & date:
Dean: Prof. Dr. El Said Abdel Hady	Signature & date:
Executive director of the quality assurance unit: Prof. Dr. Seham Gad El Hak	Signature & date: