

## **Peer Revision**

<b>Reviewers</b>	<b>University</b>	<b>Date of Revision</b>
- Prof. Dawlat Salem	Cairo	10/12/2011
- Prof. Ahmad K. Mansur	Mansura	28/11/2011

# PROGRAM SPECIFICATION FOR MASTER DEGREE OF PUBLIC HEALTH AND COMMUNITY MEDICINE

Sohag University

Faculty of Medicine

## A. Basic Information

1. Program title: Master Degree in Public Health & Community Medicine
2. Program type: single.
3. Faculty: Faculty of Medicine
4. Department: Public Health & Community Medicine.
5. Coordinator: Dr.Ahmed Fathy Hammed
6. Assistant coordinator: Dr. Rasha Abdel Hameed Aly
7. External evaluator: Prof Dr. Ali Hussein Zarzour.
8. Last date of program specifications approval: Date of specification approval Faculty Council No. "317", decree No. "1533" dated 17/12/2018.

## B. Professional Information

### 1. Program aims

The aim of this program is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Skills necessary for preparing for proper diagnosis and management of community problems, skills for conducting and supervising researches on basic scientific methodology.
3. Ethical principles related to the practice in this specialty.
4. Active participation in community needs assessment and problems solving.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Maintenance of research interest and abilities.

### 2. Attributes of the post graduate:

1. Mastering the basics of scientific research methodologies.
2. The application of the analytical method and used in the field of Community Medicine.
3. The application of specialized knowledge and integrate it with the relevant knowledge in practice.
4. Be aware of the problems and has modern visions in the field of Community Medicine.
5. Identify problems in the field of Community Medicine and find solutions to them.
6. Mastery of professional skills in this specialty and use of the appropriate recent technologies supporting these skills.
7. Communicate effectively and the ability to lead work teams.
8. Decision-making in his professional contexts.
9. To employ and preserve the available resources to achieve the highest benefit.
10. Awareness of his role in the community development and preservation of the environment at the lights of both international and regional variables.
11. Reflects the commitment to act with integrity and credibility, responsibility and commitment to rules of the profession.



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11. Reflects the commitment to act with integrity and credibility, responsibility and commitment to rules of the profession.

12. Academic and professional self development and be capable of continuous learning.

**3. Intended learning outcomes (ILOs)**

**a) Knowledge and understanding**

By the end of the study of **master program** in public health and community medicine the Graduate should be capable of:

- a1. Mention concepts of health and disease and their spectrum of health.
- a2. Explain the three interacting ecological factors—agent, host, and environment—affecting the occurrence of disease.
- a3. Describe the determinants of health on the individual, the family, and the community levels.
- a4. List essential public health functions.
- a5. Identify prevalent Health problems in the community and related risk factors.
- a6. Define patterns of care as preventive and curative, and describe the levels of preventive care.
- a7. Identify behavioral and social variables impacting health and disease.
- a8. Identify methods for monitoring the quality of healthful behavior.
- a9. Identify the nature, health effects, and sources of behavioral risks on the individuals.
- a10. Identify prevalent behavioral aspects correlated with health problems in a community, using various epidemiological strategies.
- a11. Define the sources of data and methods of collection for vital statistics and other demographic data.
- a12. Describe sampling techniques and list at least three advantages of sampling.
- a13. Summarize data, construct tables and graphs.
- a14. Calculate measures of central tendency and measures of dispersion.
- a15. Interpret selected tests of significance and the inferences obtained from such tests
- a16. Describe the normal curves and its uses.
- a17. Explain Egypt's population pyramid and define the information obtained from the pyramid.
- a18. Enumerate the different profiles of the population pyramids and their interpretations.
- a19. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.
- a20. Describe the study design, uses of different types.
- a21. Define basic components of clinical epidemiology and its basic components.
- a22. Describe the public health surveillance system and its use in the community setting.
- a23. Explain different methods for prevention and control and Define methods of prevention and control for each of these diseases.
- a24. Identify the nature, health effects, and sources of environmental risks.
- a25. Describe principles of waste management in the community and in health care settings.
- a26. List environmental risk factors relevant to selected non-communicable diseases.
- a27. Explain methods for monitoring the quality of healthful environment.
- a28. Identify some of the medically important parasitic, bacterial, viral infectious disease diseases that cause public
- a29. Describe the infectious cycle and Identify the infectious cycle for each of the infectious diseases.
- a30. Describe principles of rodent and insect control in the community and hazards of rodent and insect.
- a31. List risk factors relevant to selected non-communicable diseases e.g cancer.
- a32. Describe the health needs for vulnerable groups e.g. children and women in child bearing period and health needs for elderly and rural areas residents.
- a33. Describe the principle of school health.

- a34. Describe the principle of occupational health.
- a35. Describe the principle of health administration.
- a36. Identify nutritional requirements.
- a37. Describe the source of important nutrient.
- a38. List different types of health problems resulting from malnutrition and methods of prevention.
- a39. Know basic methods of nutritional assessment.
- a39. Define life expectancy.
- a40. Enumerate scientific developments in the field of Public Health and Community Medicine.
- a41. Enumerate the mutual influence between professional practice and its impacts on the environment.
- a42. Mention ethical and legal principles of professional practice in the field of public health and community medicine.
- a43. Enumerate the principles and fundamentals of quality in professional practice in the field of public health and community medicine.
- a44. Enumerate the basics and ethics of scientific research.

**b) Intellectual skills**

By the end of the study of **master program** in public health and community medicine the Graduate should be able to:

- b1. Analyze and evaluate information and data in the field of public health and community medicine and interpret data in accordance.
- b2. Collect and verify data from different sources.
- b3. Organize and manage data, including graphic and tabular presentations.
- b4. Conduct health behavior theories to different community health problems.
- b5. Conduct behavioral prevention and control measures to identified priority communicable and non-communicable diseases.
- b6. Select and use appropriate health education methods and materials.
- b7. Select the appropriate diagnostic and solving methods for the prevalent community problems.
- b8. Link between knowledge for professional problems' solving.
- b9. Conduct a research study and / or write a scientific study on a research problem.
- b10. Assess risk in professional practices in the field of public health and community medicine.
- b11. Plan to improve performance in the field of public health and community medicine.
- b12. Identify different problems of the community and find solutions.
- b13. Analyze researches and issues related to public health.
- b14. Gain some skills related to microbiology and Parasitology to help in understanding prevalent community and public health problems .

**c) professional and practical skills**

By the end of the study of master program in public health and community medicine the Graduate should be able to:

- c1. Master the basic and professional skills in the area of public health and community medicine.
- c2. Write and evaluate medical reports.
- c3. Perform community diagnosis for environmental health problems in the locality.
- c4. Conduct Environmental, Social & Health Surveys for infectious diseases aspects.
- c5. Diagnose the environmental aspects of an epidemic of infectious or non infectious diseases among the community.

- c6. Diagnose the behavioral aspects of an epidemic of infectious or non infectious diseases among the community.
- c7. Assess methods and tools existing in the area of Public health and community medicine.
- c8. Acquire some practical skills in the area of Microbiology and Parasitology to help in diagnosis and control of prevalent community health problems.

**d) General and Transferable skills**

By the end of the study of master program in public health and community medicine the Graduate should be able to:

- d1. Communicate effectively by all types of effective communication.
- d2. Use information technology to serve the development of professional practice
- d3. Assess himself and identify personal learning needs.
- d4. Use different sources to obtain information and knowledge.
- d5. Develop rules and indicators for assessing the performance of others.
- d6. Work in a team in various professional contexts, and lead a team efficiently.
- d7. Manage time efficiently.
- d8. Learn himself continuously.

**4. Academic standards**

Sohag faculty of medicine adopted the general National Academic Reference Standards (NARS) provided by the national authority for quality assurance and accreditation of education (naqaae) for postgraduate programs. This was approved by the Faculty Council decree N0.6854, in its session N0.177 Dated: 18/5/2009. Based on these NARS; Academic Reference Standards (ARS) were suggested for this program. These ARS were approved by Faculty Council decree N0.7528, in its session N0.191, dated: 15/3/2010. The adoption of NARS and the suggested ARS were approved by University council degree No 587, in its session No.60. Dated 26-12-2011

**5. Curriculum structure and contents:**

5.a- Program duration: 7 semesters (3 years).

5.b- Program structure:

5.b.1-No. of hours per week

Subject	No. of hours		
	Lectures	Practical	Credit hours
<b>1) First Part:</b>			
Minors :			
Basics of Medical biostatistics	1	2	2
Research methodology	1	2	2
Environmental health and its relation to public health	1	2	2
Nutrition and nutritional assessment	1	2	2
Microbiology and its relation to public health	1	2	2
Parasitology and its relation to public health	1	2	2
Behavioral science and its relation to public health	1	2	2
<b>Second part</b>			
Methodology and medical statistics	0.67	0.67	3
Demography	0.67	0.67	3

Epidemiology	1	0.67	4
Health problem related to nutritional deficiency and method of prevention	0.67	0.67	3
Health administration	0.67	0.67	3
Study of Health problems and Special health care services e.g. Maternal and Child Health, school health, rural health	1	1.3	5
Advanced courses in the speciality	1	0.67	4

code	Item	No	%	
b.i	Total credit hours	Compulsory	0.	100
		Elective	.	.
		Optional	.	.
b.iii	credit hours of basic sciences courses	4	8	
b.iv	credit hours of courses of social sciences and humanities	.	.	
b.v	credit hours of specialized courses:	37	74	
b.vi	credit hours of other course	--	--	
b.vii	Practical/Field Training	0	0	
b.viii	Program Levels (in credit-hours system):			
	Level 1: 1 <sup>st</sup> part	14	28	
	Level 2: 2 <sup>nd</sup> Part	25	50	
	Level 3: Thesis	6	12	

## 6. Program courses:

12 courses are compulsory 14

6.1-level/year of program 1<sup>st</sup> part semester 1

Semester...1.....

First part

a- compulsory

Course title	Total No. of credit hours	No. of hours/week			Program ILOS covered
		Lect.	Lab.	Exerc.	
Basics of Medical biostatistics	2h	1	-----	2	a13,a14,a16,a19 ,b1,b2,b3,c1,c7 d2,d4
research methodology	2	1	-----	2	a12, a20, a45, b9, b13, c7, d4
Environmental health and its relation to public health	2h	1	-----	2	a24,a25,a26,a27,a30,a42, b6,b7,b12,c3,c4,c5,c7,d2, d4
Nutrition and nutritional assessment	2h	1	-----	2	a36,a37,a38,a39,b6,b7, b12,c1,c2,c3,c4,d2,d4
Microbiology and its relation to public health	2h	1	-----	2	a2,a6,a28,b14,c2,c8,d1,d2
Parasitology and its relation to public health	2h	1	-----	2	a2,a23,a28,b2,b12,b14,c8 ,d2,d4

Behavioral science and its relation to public health	2h	1	-----	2	a7,a8,a9,a10,b4,b5,c3,c6,d1,d3,d6
Computer & Research methodology					
2 <sup>nd</sup> part					
Methodology and medical statistics	3h	0.67		0.67	a13,a15,a19,a20,b3,b8,b9,b13,c1,d2,d5,d8
Demography	3h	0.67		0.67	a11,a17,a18,a40,b2,b7,b8,b12,b13,c1,c3,c7,d2,d4
Epidemiology	4h	1		0.67	a2, a4, a6,a21, a22, a23,a29, a31,b2,b7,b8,B13,c1,c2,c4,c5,d2,d4,d8
Health problem related to nutritional deficiency and method of prevention	3h	0.67		0.67	a36,a38,b8,b13,c3,d2,d8
Health administration	2h	0.67		0.67	a35,a41,a43,a44,b10,b11,b13,c1,c7,d5,d6,d7
Study of Health problems and Special health care services e.g. Maternal and Child Health, school health, rural health,	5h	1		1.3	a1, a3,a5, a23,a32,a33,a34, b7,b8,b12,b13, c2,c7 d2,d4
Advanced course in the specialty	4h	1		0.67	a6,a21, a22, a23, a31,b2,b7,b8,b13,c1,c2,c4,c5,d2,d4,d8

## **7. Program Admission Requirements**

### **I.General Requirements.**

- Candidate should have either:
  - MBBch degree from any Egyptian Faculty of Medicine or
  - Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.
- Candidate should pass the house office training year.
- Those who are not university hospital residents should pass training for at least 12 months in one of the known hospitals.
- Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree no. (44), dated 6/1/2010.

### **II.Specific Requirements:**

- Candidates graduated from Egyptian Universities should have at least “Good Rank” in their final year/ cumulative year's examination, grade “Good Rank” in Public Health and Community Medicine course too.
- Candidates should know how to speak and write English well.
- Candidates should have computer skills.

## **8. Regulations for Progression and Program Completion**



Duration of program is 50 credit hours ( $\geq 4$  semesters  $\geq 3$  years), starting from registration till 2<sup>nd</sup> part exam; divided to:

**First Part: (14 Credit hours  $\geq 6$  months'  $\geq 1$  semester):**

- Program-related basic & clinical sciences & research Methodology, Ethics & medical reports, Biostatistics and computer.
- At least six months after registration should pass before the student can ask for examination in the 1<sup>st</sup> part.
- Two sets of exams: 1st in October — 2nd in April.
- At least 50% of the written exam is needed to pass in each course.
- For the student to pass the first part exam, a score of at least 60% (Level D) in each course is needed.
- Those who fail in one course need to re-exam it only for the next time only, and if re-fail, should register for the course from the start.

**Thesis/Essay(6 Credit hours  $\geq 6$  months=1 semester):**

- Completion of the 1<sup>st</sup> part credit hours and passing the exams are pre requisites for documentation of the **Thesis/Essay** subject.
- Should be completed, defended and accepted after passing the 1<sup>st</sup> part examination, and at least one month before allowing to enter 2<sup>nd</sup> part final examination.
- Accepting the thesis is enough to pass this part.

**Second Part: (25 Credit hours  $\geq 18$  months= 3 semesters):**

- Program related specialized science of Public Health and community Health Courses.
- Completion of the 1<sup>st</sup> part credit hours and passing the exams are pre requisites for documentation of the 2<sup>nd</sup> part courses.
- After passing at least:
  - Practical training: 36 months residency in the department of Public Health& Community Medicine.
- The students should pass the 1<sup>st</sup> part before asking for examination in the 2<sup>nd</sup> part.
- Fulfillment of the requirements in each course as described in the template and registered in the log book (5 Credit hours; with obtaining  $\geq 75\%$  of its mark ) is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; the credit hours of the logbook are calculated as following:
  - Each Cr. Hr.= 60 working Hrs.
  - Logbook= 5 Cr. Hr. X 60 working Hrs = 300 Working Hrs.
  - Collection of working Hrs. is as following:
  - :

Activity		Hrs
Grand rounds	اجتماع علمي موسع	٦
Training courses	دورات تدريبية	12/ day
Conference attendance	حضور مؤتمرات علمية	١٢/day
	داخلي خارجة	18/day
Thesis discussion	حضور مناقشات رسائل	٦
Workshops	حضور ورش عمل	١٢/day
Journal club	ندوة الدوريات الحديثة	٦

<b>Seminars</b>	لقاء علمي موسع	٦
<b>Morbidity and Mortality conference</b>	ندوة تحليل المخاطر المرضية أو الوفاة	٦
<b>Self education program</b>	برنامج التعليم الذاتي	٦

- Two sets of exams: 1st in October - 2nd in April.
- At least 50% of the written exam is needed to pass in each course.
- For the student to pass the 2<sup>nd</sup> part exam, a score of at least 60% (Level D) in each course is needed.

### 9. Methods of student assessments:

Method of assessment	weight	The assessed ILOs
1-Activities		- General transferable skills, intellectual skills
2-Written Exams: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	50%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills
3-OSCE/ OSPE	50%	-Practical skills, intellectual skills, general transferable skills
4-Structured Oral Exams		- Knowledge, Intellectual skills, General transferable skills

### Assessment schedule:

#### Part I:

- Environmental health and its relation to public health: Written Exam (2 hours) + Structured oral Exam + OSPE
- Medical Microbiology and Immunology and its relation to public health: Written Exam (2 hours) + Structured oral Exam + OSPE
- Medical Parasitology and its relation to public health: Written Exam (2 hours) + structured oral Exam + OSPE
- Basics of Medical biostatistics: Written Exam (2 hours) + structured oral Exam + OSPE
- Behavioral science and its relation to public health: Written Exam (2 hours) + structured oral Exam
- Research methodology: Written Exam (2hours) +structured oral exam+OSPE

#### Part II:

- Branches of public health and preventive medicine and social: Two Written Exams (3 hours for each) + structured oral Exam + field research for a related health service.

### 10. Evaluation of program:

Evaluator	Tool	Sample
1- Senior students	Questionnaire	1
2- Alumni	Questionnaire	7
3- Stakeholders ( Employers)	Questionnaire	40
4-External Evaluator(s) (External Examiner(s))	Report	1
5- Other		

## Course Specifications of Medical Biostatistics for Master degree in Public health and community medicine

**Sohag university**

**Faculty of Medicine**

1. Program on which the course is given: Master degree in Public health and community medicine.
2. Major or Minor element of programs: Minor
3. Department offering the program: Public health and community medicine
4. Department offering the course: Public health and community medicine
5. Academic year / Level; 2nd part
6. Date of specification approval Faculty Council "317", decree No. "1533" dated 17/12/2018

### A. Basic Information

**Program title:** Basics of Medical Biostatistics and research methodology.

**Code:** COM.-0506-200

**Total hours:**

Lecture	Practical	total	Credit hours
15	30	45	2

### B. Professional Information

#### 1. Overall Aims of Course

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Skills necessary for preparing for proper diagnosis and management of community problems, skills for conducting and supervising researches on basic scientific methodology.
3. Active participation in community needs assessment and problems solving.
4. Maintenance of learning abilities necessary for continuous medical education.
5. Maintenance of research interest and abilities.

#### 2. Intended Learning Outcomes of Courses (ILOs)

##### a) **Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Summarize data, construct tables and graphs.
- a2. Calculate measures of central tendency and measures of dispersion.
- a3. Describe the normal curves and its uses.
- a4. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.

##### b) **Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b1. Analyze and evaluate information and data in the field of public health and community medicine and interpret data in accordance.
- b2. Collect and verify data from different sources.

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

- c1. Master the basic and professional skills in Biostatistics.
- c2. Assess methods and tools used in collection and interpretation of data.

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Use information technology to serve the development of Knowledge in the area of biostatistics.
- d2. Use different sources to obtain Data.

**3. Contents**

Topic	No. of hours	Lecture	Tutorial/Practical
statistics	3	1	2
Introduction, terminology and rationale			
Data collection methods	6	2	4
Types of Data	6	2	4
Tabulation of data	6	2	4
Graphical presentation of data	6	2	4
Measures of central tendency	6	2	4
Measures of dispersion	6	2	4
Normal distribution curves	6	2	4
<b>Total</b>	<b>45</b>	<b>15</b>	<b>30</b>
<b>Credit hours</b>	<b>2</b>	<b>1</b>	<b>1</b>

**4. Teaching and Learning Methods**

- 4.1- Lectures.
- 4.2- Practical sessions.
- 4.3- Computer search assignments

**5. Student Assessment Methods**

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills
5.5 Computer search assignment	-General transferable skills, intellectual skills

**Assessment Schedule**

- Assessment 1.....Final written exam..... week: 24
- Assessment 2.....Final oral exam..... week: 24
- Assessment4.....Final OSPE..... week 24
- Assessment 3..... Attendance and absenteeism throughout the course
- Assessment 4 ..... Computer search assignment performance throughout the course

**Weighting of Assessments**

Final written examination	50	%
Oral Examination	30	%
OSPE	20	%
Total	100	%

**Any formative only assessments: Attendance and absenteeism throughout the course  
Computer search assignment performance throughout the course**

## **6. List of References**

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

### **6.2- Recommended Books**

1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.

2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.

3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

### **6.3- Periodicals, Web Sites, ...etc**

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

3- WWW. CDC and WHO sites

## **7. Facilities Required for Teaching and Learning:**

1-ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, good source of aeration, bathrooms, good illumination, and safety & security tools.

2- TEACHING TOOLS: including screens, computers including cd (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, colour and laser printers.

**Course Coordinator:** Dr/Rasha Abd El-Hameed Aly

**Head of Department:** Prof/ Ahmed Fathy Hamed

**Date:** 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

## Course Specifications of Research Methodology for Master degree in public health and community medicine

Sohag university

Faculty of Medicine

1. Program on which the course is given: Master degree in Public health and community medicine.
2. Major or Minor element of programs: Minor
3. Department offering the program: Public health and community medicine
4. Department offering the course: Public health and community medicine
5. Academic year / Level; 2nd part
6. Date of specification approval Faculty Council "317", decree No. "1533" dated 17/12/2018

### A. Basic Information

**Program title:** Basics of Medical Biostatistics and research methodology.

**Code:** COM.-0506-200

**Total hours:**

Lecture	Practical	total	Credit hours
15	30	45	2

### B. Professional Information

#### 1. Overall Aims of Course

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Skills necessary for preparing for proper diagnosis and management of community problems, skills for conducting and supervising researches on basic scientific methodology.
3. Active participation in community needs assessment and problems solving.
4. Maintenance of learning abilities necessary for continuous medical education.
5. Maintenance of research interest and abilities.

#### 2. Intended Learning Outcomes of Courses (ILOs)

##### a) **Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Describe sampling techniques and list at least three advantages of sampling.
- a2. Describe the study design, uses of different types.
- a3. Mention the basics and ethics of scientific research.

##### b) **Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b1. Analyze and evaluate information and data in the field of public health and community medicine and interpret data in accordance.
- b2. Collect and verify data from different sources.

##### c) **Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

- c1. Master the basic and professional skills in Biostatistics.
- c2. Assess methods and tools used in collection and interpretation of data.

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Use information technology to serve the development of Knowledge in the area of biostatistics.
- d2. Use different sources to obtain Data.

**3. Contents**

Topic	No. of hours	Lecture	Tutorial/Practical
<u>Methodology &amp; statistics</u> Introduction to research basics, terminology and rationale	9	3	6
Basics of Study design: Cross sectional study and the prevalence rate	9	3	6
Cohort study, incidence rate, relative & attributable risk	9	3	6
Case-control study, Odd's ratio	9	3	6
Sampling	9	3	6
<b>Total</b>	<b>45</b>	<b>15</b>	<b>30</b>
<b>Credit hours</b>	<b>2</b>	<b>1</b>	<b>1</b>

**4. Teaching and Learning Methods**

- 4.1- Lectures.
- 4.2- Practical sessions.
- 4.3- Computer search assignments

**5. Student Assessment Methods**

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills
5.5 Computer search assignment	-General transferable skills, intellectual skills

**Assessment Schedule**

- Assessment 1.....Final written exam.....week: 24
- Assessment 2.....Final oral exam.....week: 24
- Assessment4.....Final OSPE..... week 24
- Assessment 3..... Attendance and absenteeism throughout the course
- Assessment 4 ..... Computer search assignment performance throughout the course

## Weighting of Assessments

Final written examination	50	%
Oral Examination	30	%
OSPE	20	%
Total	100	%

**Any formative only assessments: Attendance and absenteeism throughout the course  
Computer search assignment performance throughout the course**

### 6. List of References

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

#### 6.2- Recommended Books

1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.

2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.

3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

#### 6.3- Periodicals, Web Sites, ...etc

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

3- WWW. CDC and WHO sites

### 7. Facilities Required for Teaching and Learning:

1-ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, good source of aeration, bathrooms, good illumination, and safety & security tools.

2- TEACHING TOOLS: including screens, computers including cd (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, colour and laser printers.

**Course Coordinator:** Dr/Rasha Abd El –Hameed Aly

**Head of Department:** Prof/ Ahmed Fathy Hamed

**Date:** 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018



## Course Specifications of Environmental health and its relation to public health for Master degree in public health and community medicine

Sohag university

Faculty of Medicine

1. Program on which the course is given: Master degree in Public health and community medicine
2. Major or Minor element of programs: Minor
3. Department offering the program: Public health and community medicine
4. Department offering the course: Public health and community medicine
5. Academic year / Level; 1<sup>st</sup> part
6. Date of specification approval Faculty Council No. "317", decree No. "1533" dated 17/12/2018

### A. Basic Information

**Program title: Environmental health and its relation to public health.**

**Code: COM.-0506-200**

**Total hours:**

Lecture	Practical	Total	Credit hours
15	30	45	2

### B. Professional Information

#### 1. Overall Aims of Course

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Skills necessary for preparing for proper diagnosis and management of community problems, skills for conducting and supervising researches on basic scientific methodology.
3. Active participation in community needs assessment and problems solving.
4. Maintenance of learning abilities necessary for continuous medical education.
5. Maintenance of research interest and abilities.

#### 2. Intended Learning Outcomes of Courses (ILOs)

##### a) **Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Identify the nature, health effects, and sources of environmental risks.
- a2. Describe principles of waste management in the community and in health care settings.
- a3. List environmental risk factors relevant to selected non-communicable diseases.
- a4. Explain methods for monitoring the quality of healthful environment.
- a5. Describe principles of rodent and insect control in the community and hazards of rodent and insect on the environment.
- a6. Enumerate the mutual influence between professional practice and its impacts on the environment.

##### b) **Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b1. Select and use appropriate health education methods and materials to prevent and control prevalent environmental problems.

b2. Select the appropriate diagnostic and solving methods for the prevalent environmental problems.

b3. Identify different environmental problems and find solutions.

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

c1. Perform community diagnosis for environmental health problems in the locality.

c2. Conduct Environmental, Social & Health Surveys for infectious diseases aspects.

c3. Diagnose the environmental aspects of an epidemic of infectious or non infectious diseases among the community.

c4. Assess methods and tools existing in the area of environmental health.

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

d1. Use information technology to serve the development of professional practice in diagnosis and solving of environmental problems.

d2. Use different sources to obtain information and knowledge about environment and prevalent environmental problems.

**3. Contents**

Topic	No. of hours	Lecture	Tutorial/Practical
Environment: - Terminology	2	2	<b>Community convoys with the department &amp; Computer search assignments</b>
Elements of environmental sanitation	1	1	
Town planning	1	1	
Housing; urban and rural	1	1	
Water sanitation	1	1	
Sewage disposal	1	1	
Refuse disposal (including dangerous ones)	1	1	
Air pollution	1	1	
Earth pollutants	1	1	
Climatic changes	1	1	
Pollution caused by Radiation	1	1	
Food sanitation	1	1	
Rodent and insect control	1	1	
Sterilization and disinfection	1	1	
Environmental risk factors of non-communicable diseases	1	1	
<b>Total</b>	<b>45</b>	<b>15</b>	<b>30</b>
<b>Credit hours</b>	<b>2</b>	<b>1</b>	<b>1</b>

**4. Teaching and Learning Methods**

4.1- Lectures

4.2- Computer search assignments

4.3- Field training (Community convoys)

**5. Student Assessment Methods**

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills

5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills
5.5 Computer search assignment	-General transferable skills, intellectual skills

### Assessment Schedule

Assessment 1... Final written exam.....	week: 24
Assessment 2... Final oral exam.....	week: 24
Assessment4.....Final OSPE.....	Week: 24
Assessment 3... Attendance and absenteeism throughout the course	
Assessment 4 ... Computer search assignment performance throughout the course	

### Weighting of Assessments

Final written examination	50	%
Oral Examination	30	%
OSPE	20	%
Total	100	%

Any formative only assessments: Attendance and absenteeism throughout the course  
Computer search assignment performance throughout the course

### 6. List of References

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

#### 6.2- Recommended Books

1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.

2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.

3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

#### 6.3- Periodicals, Web Sites, ...etc

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

3- WWW. CDC and WHO sites

### 7. Facilities Required for Teaching and Learning:

1-ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, good source of aeration, bathrooms, good illumination, and safety & security tools.

2- TEACHING TOOLS: including screens, computers including cd (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

3- Transport and full board facilities for students during the community campaigns

**Course Coordinator:** Dr/Rasha Abd El Hameed Ali

**Head of Department:** Prof/ Ahmed Fathy Hammed

**Date:** 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

## Course Specifications of Basics of nutrition and nutritional assessment for Master degree in public health and community medicine

**Sohag university**

**Faculty of Medicine**

1. Program on which the course is given: Master degree in public health and community medicine.
2. Major or Minor element of programs: Minor.
3. Department offering the program: public health and community medicine.
4. Department offering the course: public health and community medicine.
5. Academic year / Level; 1st part
6. Date of specification approval Faculty council No. "317", decree No. "1533" dated 17/12/2018

### A. Basic Information

**Program title:** Basics of nutrition and nutritional assessment.

**Code:** COM.-0506-200

**Total hours:**

Lecture	Practical	Total	Credit hours
15	30	45	2

### B. Professional Information

#### 1. Overall Aims of Course

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Active participation in community needs assessment and problems solving.
3. Maintenance of learning abilities necessary for continuous medical education.

#### 2. Intended Learning Outcomes of Courses (ILOs)

##### a) **Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Identify nutritional requirements.
- a2. Describe the sources of important nutrients.
- a3. Enumerate different types of health problems resulting from malnutrition.
- a4. List basic methods of nutritional assessment.

##### b) **Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b1. Select and use appropriate health education methods and materials for improving nutritional status and preventing malnutrition.
- b2. Select the appropriate diagnostic and solving methods for the prevalent nutritional problems.
- b3. Identify different nutritional problems of the community and find solutions.

##### c) **Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

- c1. Master the basic and professional skills in prevention and control of nutritional problems in the community.
- c2. Write and evaluate medical reports of nutritional status.
- c3. Perform community diagnosis for nutritional health problems in the locality.
- c4. Conduct methods of nutritional assessment as nutritional surveys

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Use information technology to serve the development of Knowledge and practice in the area of nutrition and nutritional assessment
- d2. Use different sources to obtain information and knowledge about nutrition and nutritional assessment.

**3. Contents**

Topic	No. of hours	Lecture	Tutorial/Practical
<u>Nutrition</u>			4
- nutritional requirements	5	1	
- important nutrients	5	1	4
- source of important nutrients	5	1	4
- basics of malnutrition and diseases of nutrients deficiency	6	2	4
- basics of methods of nutritional assessment	7	3	4
- basics of food preservation	7	3	4
- food poisoning	6	2	4
- basics of food handling	4	2	2
<b>Total</b>	<b>45</b>	<b>15</b>	<b>30</b>
<b>Credit hours</b>	<b>2</b>	<b>1</b>	<b>1</b>

**4. Teaching and Learning Methods**

4.1- Lectures

4.2- Computer search assignments

**5. Student Assessment Methods**

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills
5.5 Computer search assignment	-General transferable skills, intellectual skills

**Assessment Schedule**

Assessment 1 .....Final written exam.....week: 24

Assessment 2 .....Final oral exam.... week: 24

Assessment 3 ..... OSPE

Assessment 4 ..... Attendance and absenteeism throughout the course

Assessment 5 .....Computer search assignment performance throughout the course

**Weighting of Assessments**

Final written examination	50	%
Oral Examination	30	%
OSPE	20	%
Total	100	%

**Any formative only assessments**

**6. List of References**

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

**6.2- Recommended Books**

1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.

2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.

3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

**6.3- Periodicals, Web Sites, ...etc**

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

3- WWW. CDC and WHO sites

**7. Facilities Required for Teaching and Learning:**

1-ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, good source of aeration, bathrooms, good illumination, and safety & security tools.

2- TEACHING TOOLS: including screens, computers including cd (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, colour and laser printers.

**Course Coordinator:** Dr/ Rasha Abdel Hameed Aly

**Head of Department:** Prof/ Ahmed Fathy Hamed

**Date:** 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

## Course Specifications of Microbiology and its relation to public health for Master degree in public health and community medicine

Sohag university

Faculty of Medicine

1. Program on which the course is given: Master degree in public health and community medicine.
2. Major or Minor element of programs: Minor.
3. Department offering the program: public health and community medicine
4. Department offering the course: Microbiology and Immunology.
5. Academic year / Level; 1st part
6. Date of specification approval Faculty council No. "317", decree No. "1533" dated 17/12/2018

### A. Basic Information

**Program title: Microbiology and parasitology and its relation to public health.**

**Code: MIC-0506-200**

**Total hours:**

Lecture	Practical	Total	Credit hours
15	30	45	2

### B. Professional Information

#### 1. Overall Aims of Course

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Active participation in community needs assessment and problems solving.
3. Maintenance of learning abilities necessary for continuous medical education.

#### 2. Intended Learning Outcomes of Courses (ILOs)

##### a) **Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Describe the metabolism and genetics of organisms.
- a2. Define patterns of care as preventive and describe some infection control methods .
- a3. Identify some of the medically important bacterial, viral infectious disease diseases that cause public health problem.
- a4. List the microorganisms affecting human beings all over the world and particularly in Egypt.
- a5. Describe the pathology, clinical symptoms and complications of each disease.
- a6. Summarize the laboratory tests needed for diagnosis of each case.
- a7. Name the drugs and instructions used for treatment of each case.
- a8. Describe the structure and function of immune system.

##### b) **Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b1. Differentiate between the different microorganisms (Bacteria, viruses and fungi).
- b2. Differentiate between the different types of disease causing microbes.

- b3. Perform basic and advanced microbiology tests in the lab and Interpret the results of tests to aid clinicians in diagnosis.
- b4. Determine the antibiotic regimen based on previous microbiological experience and laboratory tests.
- b5. Determine the antibiotic regimen based on previous microbiological experience and laboratory tests.

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

- c1. Interpret a report containing microbiological or immunological data.
- c2. Recognize micro-organisms on morphological bases.
- c3. Identify the methods of staining, culturing and biochemical reactions.
- c4. Recognize some serological tests used in diagnosis.
- c5. Initiate or implement laboratory tests.
- c6. Recognize methods of handling and processing of samples.
- c7. Interpret a report containing microbiological or immunological data.

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Acquire communication skills.
- d2. Use the computer and internet to gather scientific information.

**3. Contents**

Topic	No. of hours	Lecture	Tutorial/ Practical
<b>Lectures</b>	1	1	
<b><u>General Bacteriology</u></b> Bacterial anatomy, Genetics & Physiology			
Recombinant DNA technology	1	1	
Antibiotics	1	1	
Sterilization & Disinfection	1	1	3
<b><u>Systematic Bacteriology</u></b> Gram +ve cocci, Gram –ve cocci	1	1	
Gram +ve bacilli, Gram –ve bacilli	1	1	
<b><u>General virology</u></b>	1	1	
<b><u>Systematic Virology</u></b> RNA viruses, DNA viruses	1	1	
<b><u>Mycology</u></b> Fungal classifications, Opportunistic mycosis & Antifungal drugs	1	1	
<b><u>Immunology</u></b> Congenital & Acquired Immunity	1	1	
Immunological Cells, Hypersensitivity	1	1	



Transplantation, Tumor Immunology	1	1	
Immunodeficiency	1	1	
<b><u>Applied Microbiology and Laboratory tests</u></b>	1	1	
<b>Nosocomiology</b>	1	1	
Bacterial Cultures	2		2
Bacterial Isolation & Identification	2		2
Diagnostic Molecular Biology Methods	2		2
Antibiotic Sensitivity Tests	2		2
Immunology( Antigen Antibody Reactions) 1	2		2
Immunology( Antigen Antibody Reactions) 2	2		2
Staphylococci	2		2
Streptococci & Pneumococci	2		2
Neisseria	2		2
Corynebacterium	2		2
Mycobacterium	1		1
Enterobacteria	1		1
Pseudomonas & Yersinia	1		1
Bacillus	1		1
Clostridium	1		1
Vibrios & Brucella	1		1
Spirochaetes & Mycology	1		1
<b>Total</b>	<b>45</b>	<b>15</b>	<b>30</b>
<b>Credit hours</b>	<b>2</b>	<b>1</b>	<b>1</b>

#### 4. **Teaching and Learning Methods**

- 4.1- Lectures
- 4.2- Practical sessions
- 4.2- Computer search assignments

#### 5. **Student Assessment Methods**

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills

5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills
5.5 Computer search assignment	-General transferable skills, intellectual skills

### Assessment Schedule

Assessment 1.....Final written exam..... week: 24

Assessment 2.....Final oral exam..... week: 24

Assessment 3..... OSPE ..... week: 24

### Weighting of Assessments

Final written examination	50	%
Final Oral Examination	30	%
<b>OSPE</b>	20	%
Total	100	%

Formative only assessments: simple research assignment, attendance and absenteeism.

## 6. List of References

### 6.1- Essential Books (Text Books)

Prof. Abla Elmeshad immunology, systemic bacteriology, practical books.2015

Lippincott`s immunology, systemic bacteriology

Jawetz Medical Microbiology.2016

Roitt Essential Immunology.

Abbas Clinical Immunology

Alberts Molecular Biology

### 6.2- Recommended Books

-A coloured Atlas of Microbiology.

-Topley and Wilson, Microbiology

### 6.3- Periodicals, Web Sites, ... etc

**Journal of Clinical immunology.**

<http://mic.sgmjournals.org/>

American journal of infection control

Microbiology and Immunology on line

www.sciencedirect.com

## 7. Facilities Required for Teaching and Learning:

1. ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, good source of aeration, bathrooms, good illumination, and safety & security tools.

2. TEACHING TOOLS: including screens, computers including cd (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, colour and laser printers.

3. COMPUTER PROGRAM: for designing and evaluating MCQs

**Course Coordinator:** Dr/Ekram Abd El- Rahman

**Head of Department:** Prof/Abeer Shneaf

**Date:** 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

## Course Specifications of Medical Parasitology and its relation to public health for Master degree in public health and community medicine

**Sohag university**

**Faculty of Medicine**

1. Program on which the course is given: Master degree in public health and community medicine.
2. Major or Minor element of programs: Minor.
3. Department offering the program: public health and community medicine
4. Department offering the course: Medical Parasitology.
5. Academic year / Level; 1st part
6. Date of specification approval Faculty council No. "317", decree No. "1533" dated 17/12/2018

### A. Basic Information

**Program title: Parasitology and its relation to public health.**

**Code: PAR-0506-200**

**Total hours:**

Lecture	Practical	Total	Credit hours
15	30	45	2

### B. Professional Information

#### 1. Overall Aims of Course

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Active participation in community needs assessment and problems solving.
3. Maintenance of learning abilities necessary for continuous medical education.

#### 2. Intended Learning Outcomes of Courses (ILOs)

##### a) **Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. have the basic knowledge of the parasites affecting human beings all over the world (with its geographical distribution) and particularly in Sohag and Egypt.
- a2. Have the understanding the life cycle of each, inside and outside the body.
- a3. Have the ability to differentiate between parasites on morphological bases.
- a4. Have the knowledge to recognize the clinical symptoms and complications of each parasite.
- a5. Have the knowledge of the recommended laboratory tests needed for diagnosis of each case.
- a6. Have the knowledge about control methods used against parasites.

##### b) **Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b1. Collect information about parasites causing epidemics and modes of infection specialty parasites endemic in Egypt and Arab countries.
- b2. Identify and differentiate between parasites sharing common symptoms and causing health problems in the community.
- b3. Differentiate between parasites inhabiting the same geographical location.
- b4. Differentiate between parasites sharing common symptoms.

##### c) **Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

c1. Identify the infective and the diagnostic stages of the parasites.

c2. Identify some of the medically important intermediate host especially those present in Egypt.

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

d1. Use the computer to enter parasitological web sites.

d2. Can collect scientific data from the computer as reviews, photos, and videos.

d3. Collect data from medical canters in the locality to recognize the local parasitic dangers.

**3. Contents**

Topic	No. of hours	Lecture	Tutorial/ Practical
Fasciola+ H. heterophyes + Schistosoma + Snails		1	2
Cestoda+ D. latum+ Taenia Echinococcus+ Hymenolepis+ Dipylidium		1	3
Nematoda+ Eterobius+ T. trichura+ Capillaria+ T. spiralis+ Ascaris		2	3
Hook worms+ S.stercoralis+ Larva migrans+D. medenensis+ Filarial; worms		2	2
Dieptera+ Mosquitoes +Phlebotomas+ Myiasis & M. producing flies		1	2
Siphonaptera+ Hemiptera+ Anoplura		1	2
ticks+Mites+ Pentastomida+ Cyclops		1	2
Introduction+ Amoebidae		1	2
Luminal flagellates + Haemoflagellates		1	3
Apicomplexa (Malaria + Babesia)		1	3
Apicomplexa (Toxoplasma+ others)+ Ciliata+Microsporidia		2	3
Laboratory tests+ Immunology		1	3
<b>Total</b>	<b>45</b>	<b>15</b>	<b>30</b>
<b>Credit hours</b>	<b>2</b>	<b>1</b>	<b>1</b>

**4. Teaching and Learning Methods**

4.1- Lectures

4.2- Practical sessions

4.2- Computer search assignments

## 5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSPE	-Practical skills, intellectual skills
5.5 Computer search assignment	-General transferable skills, intellectual skills

### Assessment Schedule

Assessment 1.....Final written exam.....	week: 24
Assessment 2.....Final oral exam.....	week: 24
Assessment 3..... OSPE .....	week: 24

### Weighting of Assessments

Final written examination	50	%
Final Oral Examination	30	%
<b>OSPE</b>	20	%
Total	100	%

Formative only assessments: simple research assignment, attendance and absenteeism.

## 6. List of References

### 6.1- Essential Books (Text Books)

Medical Parasitology, 2002., Ruth Leventhal, Russell F. Cheadle., Publisher: F.A. Davis Company; 5 edition.

Essentials of Parasitology, 1992., Gerald D. Schmidt., Publisher: William C Brown Pub; 5th edition.

Worms and human diseases. 2002., R. Muller., Publisher: CABI; Second edition.

Basic Clinical Parasitology, 1996., Franklin A. Neva, Harold W. Brown, Publisher: Appleton & Lange; 6 edition.

Foundations of Parasitology. 2008., Larry Roberts, John Janovy Jr. Publisher: McGraw-Hill; 8th edition.

### 6.2- Recommended Books

A coloured Atlas of tropical Medicine and Parasitology.

### 6.3- Periodicals, Web Sites:

Parasitology Research Division of Biology, Kansas State University  
[mri.sari.ac.uk/parasitology.asp](http://mri.sari.ac.uk/parasitology.asp)

British Society of Parasitology

Parasitic Diseases: <http://www.mic.ki.se/Diseases/c3.html>

[Parasite Images: http://www.med.cmu.ac.th/dept/parasite/image.htm](http://www.med.cmu.ac.th/dept/parasite/image.htm)

Atlas of Medical Parasitology: <http://www.cdfound.to.it/HTML/atlas.htm>

**7. Facilities Required for Teaching and Learning:**

1. **ADEQUATE INFRASTRUCTURE:** including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, good source of aeration, bathrooms, good illumination, and safety & security tools.
2. **TEACHING TOOLS:** including screens, computers including cd (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, colour and laser printers.
3. **COMPUTER PROGRAM:** for designing and evaluating MCQs

**Course Coordinator:** Dr/Aml Mostafa Ahmed

**Head of Department:** Dr/ Hanaa El-Elhady

**Date:** 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

## **Course Specifications of Behavioral science and its relation to public health for Master degree in public health and community medicine**

**Sohag university**

**Faculty of Medicine**

1. Program on which the course is given: Master degree in public health and community medicine
2. Major or Minor element of programs: Minor
3. Department offering the program: Public health and community medicine
4. Department offering the course: Public health and community medicine
5. Academic year / Level; 1st part
6. Date of specification approval Faculty council No. "317", decree No. "1533" dated 17/12/2018

### **A. Basic Information**

**Program title: Behavioral science and its relation to public health.**

**Code: COM.-0506-200**

**Total hours:**

Lecture	Practical	Total	Credit hours
<b>15</b>	<b>30</b>	<b>45</b>	<b>2</b>

### **B. Professional Information**

#### **1. Overall Aims of Course**

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Recent scientific knowledge essential for the mastery of practice of Public Health and Community Medicine according to the international standards.
2. Active participation in community needs assessment and problems identification.
3. Maintenance of learning abilities necessary for continuous medical education.

#### **2. Intended Learning Outcomes of Courses (ILOs)**

##### **a) Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Identify behavioral and social variables impacting health and disease.
- a2. Identify methods for monitoring the quality of healthful behavior.
- a3. Identify the nature, health effects, and sources of behavioral risks on the individuals.
- a4. Identify prevalent behavioral aspects correlated with health problems in a community, using various epidemiological strategies.

##### **b) Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b1. Conduct health behavior theories to different community health problems.
- b2. Conduct behavioral prevention and control measures to identified priority communicable and non-communicable diseases.

##### **c) Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

- c1. Perform community diagnosis for health problems and behavioral aspects related to these problems in the locality.
- c2. Diagnose the behavioral aspects of an epidemic of infectious or non infectious diseases among the community.

##### **d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Communicate effectively by all types of effective communication.
- d2. Assess himself and identify personal learning needs.
- d3. Work in a team, and learn How to communicate with others in the team.

### 3. Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
behavior: - Terminology and interpretations	1	1	-
- Impact of tradition, believes, values, taboos and behaviors on disease occurrence	5	2	3
- Islam pillars effect on behavior	6	2	4
- Examples of behavioral diseases and its prevention	6	2	4
- Case studies	6	2	4
- Risky behaviors; smoking and drug abuse	5	2	3
- Communication skills	5	1	4
- Health education	6	2	4
-Behavioral risk factors of non- communicable diseases	5	1	4
<b>Total</b>	<b>45</b>	<b>15</b>	<b>30</b>
<b>Credit hours</b>	<b>2</b>	<b>1</b>	<b>1</b>

### 4. Teaching and Learning Methods

- 4.1- Lectures
- 4.2- Computer search assignments
- 4.3- Roll plays

### 5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4 Computer search assignment	-General transferable skills, intellectual skills

### Assessment Schedule

- Assessment 1.....Final written exam.....week: 24
- Assessment 2.....Final oral exam..... week: 24
- Assessment 3..... Attendance and absenteeism throughout the course
- Assessment 4 ..... Computer search assignment performance

### Weighting of Assessments

Final written examination	50	%
Final Oral Examination	50	%
Total	100	%

Any formative only assessments Attendance and absenteeism throughout the course & Computer search assignment performance



## **6. List of References**

### **6.1- Essential Books (Text Books)**

1-Maxy-Rosenau Public health and preventive medicine, 2007.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

### **6.2- Recommended Books**

1- Dimensions of Community Health, 1997. Dean F. Miller, James H. Price, publisher Brownell & Carroll; 5th edition.

2- Short Textbook of preventive and social Medicine. 2010., G.N., M.D. Prabhakara, publisher Jaypee Brothers Medical Pub ; 2 edition.

3- Epidemiology in Medical Practice, 1997, D. J. P. Barker, Cyrus Cooper MA , G. Rose MA, publisher Churchill Livingstone; 5 edition.

### **6.3- Periodicals, Web Sites, ...etc**

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

3- WWW. CDC and WHO sites

## **7. Facilities Required for Teaching and Learning:**

1. ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, good source of aeration, bathrooms, good illumination, and safety & security tools.
2. TEACHING TOOLS: including screens, computers including cd (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, colour and laser printers.
3. COMPUTER PROGRAM: for designing and evaluating MCQs

**Course Coordinator:** Dr/Rasha Abdel Hameed Aly

**Head of Department:** Prof/ Ahmed Fathy Hammed

**Date:** 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

## Course Specification of Research Methodology & Computer in MD degree in Public Health and Community Medicine

Sohag University

Faculty of Medicine

1. Program Title: MD degree in Public Health and Community Medicine.
2. Minor element of program.
3. Department offering the program: Public Health and Community Medicine
4. Department offering the course: Community Medicine.
5. Academic Year/level: 1st part
6. Date of specification approval Faculty council No. "317", decree No. "1533" dated 17/12/2018

### A. Basic Information

**Title:** Course Specification of research methodology in MD degree in Public Health and Community Medicine

**Code:** COM 0506-200.

**Total hours**

Title	Lecture	Practical	Total	Credit
Research methods	15	30	45	2

### B. Professional Information

#### 1. Overall Aims of Course

- The aim of this program is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mystery of the practice of Research methodology specialty and necessary to provide further training and practice in the field of Public Health and Community Medicine
- To influence the students to adopt an analytical thinking for evidence based medicine

#### 2. Intended Learning Outcomes of Courses (ILOs)

##### a) **Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Define the recent advances of screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.
- a2. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values.
- a3. Describe the study design, uses, and limitations.
- a4. Mention the recent advances of principles, methodologies, tools and ethics of scientific research.
- a5. Explain the strategies and design of researches.
- a6. Describe bias and confounding.
- a7. Describe sampling techniques and list advantages of sampling
- a8. Identify principles of evidence based medicine.

##### b) **Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b1. Conduct research studies that add to knowledge.
- b2. Formulate scientific papers in the area of Obstetrics & Gynecology.
- b3. Innovate and create researches to find solutions to prevalent problems in the field of Obstetrics & Gynecology
- b4. Criticize researches related to Obstetrics & Gynecology.

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

- c1. Master the basic and modern professional skills in conducting researches in the area of public health and community medicine.
- c2. Design new methods, tools and ways of conducting researches.

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Use of different sources for information and knowledge to serve research.
- d2. Work coherently and successfully as a part of a team and team's leadership in conducting researches and field studies.

**3. Contents**

Topic	No. of hours	Lecture	Tutorial/Practical
Details of epidemiological studies (case control, cohort and cross sectional )	6	2	4
Clinical trials, Quasi experimental study	4	1	3
Bias and errors	4	1	3
Setting a hypothesis	4	1	3
Recent advances in screening	5	2	3
- Evidence – based Medicine:			
Concept and examples	3	1	2
Applicability	3	1	2
Scientific writing:			
A protocol	3	1	2
A curriculum	3	1	2
Setting an objective	2	1	1
- Critical thinking	2	1	1
Formulation of papers	2	2	4
<b>Total hours</b>	<b>45</b>	<b>15</b>	<b>30</b>
<b>Total Credit hours</b>	<b>2</b>	<b>1</b>	<b>1</b>

**4. Teaching and Learning Methods**

- 4.1- Lectures.
- 4.2- Computer search assignments

**5. Student Assessment Methods**

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,

5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4 Computer search assignment	-General transferable skills, intellectual skills

### Assessment Schedule

Assessment 1	Final written exam	Week: 24
Assessment 2	Final Structured Oral Exam	Week: 24
Assessment 3	Attendance and absenteeism throughout the course	
Assessment 4	Computer search assignment performance throughout the course	

### Weighting of Assessments

Final-term written examination	50%
Final Structured Oral Exam	50%
Total	100%

**Any formative only assessments** Attendance and absenteeism throughout the course  
Computer search assignment performance throughout the course

### 6. List of References

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

#### 6.2- Recommended Books

1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.

2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.

3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

#### 6.3- Periodicals, Web Sites, ...etc

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

3- WWW. CDC and WHO sites

### 7. Facilities Required for teaching and learning.

1. **Adequate infrastructure:** including teaching places ( teaching class, teaching halls, teaching laboratory), Comfortable desks, good source of aeration, bathrooms, good illumination, safety & Security tools.
2. **Teaching Tools:** including screens, Computer including cd(rw), data shows, Projectors, flip charts, white board, video player, digital video camera, Scanner, copier, colour and laser printers.
3. **Computer Program:** for designing and evaluating MCQs

**Course Coordinator:** Dr/Rasha Abdel Hameed Aly

**Head of Department:** Prof/ Ahmed Fathy Hammed

**Date:** 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

## Course Specifications of Master degree in Public Health and Community Medicine

**Sohag university**

**Faculty of Medicine**

1. Program on which the course is given: Master degree in public health and community medicine.
2. Major or Minor element of programs: Major
3. Department offering the program: public health and community medicine
4. Department offering the course: public health and community medicine
5. Academic year / Level; 2nd part
6. Date of specification approval Faculty council No. "317", decree No. "1533" dated 17/12/2018

### A. Basic Information

**Program title:** Medical Biostatistics and methodology, Demography and Epidemiology

**Program title:** Health administration, Study of Health problems and Special health care services and Health problem related to nutritional deficiency and method of prevention and Advanced courses in the specialty

**Code:** COM.-0506-200

**Total hours**

Course title	Lecture	Practical	total	Credit hours
Medical Biostatistics and methodology	30	30	60	3
Demography	30	30	60	3
Epidemiology	45	30	75	4

Study of Health problems and Special health care services	45	60	105	5
Health administration	30	30	60	3
Health problem related to nutritional deficiency and method of prevention	30	30	60	3
Advanced courses in the specialty	45	30	75	4

### B. Professional Information

#### 1. Overall Aims of Course

##### Medical Biostatistics and methodology module

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Skills necessary for preparing for proper diagnosis and management of community problems, skills for conducting and supervising researches on basic scientific methodology.
3. Ethical principles related to the practice in this specialty.

4. Active participation in community needs assessment and problems solving.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Maintenance of research interest and abilities.

#### **Demography module**

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Active participation in community needs assessment and problems solving.
3. Maintenance of learning abilities necessary for continuous medical education.

#### **Epidemiology module**

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Active participation in community needs assessment and problems solving.
3. Maintenance of learning abilities necessary for continuous medical education.

#### **Health administration module**

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Active participation in community needs assessment and problems solving.
3. Maintenance of learning abilities necessary for continuous medical education.

#### **Study of Health problems and Special health care services module**

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Active participation in community needs assessment and problems solving.
3. Maintenance of learning abilities necessary for continuous medical education.

#### **Health problem related to nutritional deficiency and method of prevention module :**

The aim of this course is to provide the postgraduate student with the medical knowledge and skills essential for practice of specialty and necessary to gain further training and practice in the field of Public health and Community Medicine through providing:

1. Scientific knowledge essential for practice of Public Health and Community Medicine according to the international standards.
2. Active participation in community needs assessment and problems solving.
3. Maintenance of learning abilities necessary for continuous medical education.

## **2. Intended Learning Outcomes of Courses (ILOs)**

### **Medical Biostatistics and methodology module**

#### **a) Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Identify how to comment on tables and graphs .
- a2. Interpret selected tests of significance and the inferences obtained from such tests

- a3. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests and methods of evaluation of screening test.
- a4. Describe advantages and disadvantages of each type of study design, and requirements of each type.

**b) Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b1. Organize and manage data, including graphic and tabular presentations.
- b2. Link between knowledge for professional problems' solving.
- b3. Conduct a research study and / or write a scientific study on a research problem.
- b4. Analyze researches and issues related to public health.

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

- c1. Master the basic and professional skills in the area of research methodology.

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Use information technology to serve the development of professional practice in the field of research Methodology and biostatistics
- d2. Develop rules and indicators for assessing the performance of others.
- d3. Learn himself continuously.

**Demography module**

**a) Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Define the sources of data and methods of collection for vital statistics and other demographic data.
- a2. Explain Egypt's population pyramid and define the information obtained from the pyramid.
- a3. Enumerate the different profiles of the population pyramids and their interpretations.
- a4. Define life expectancy.

**b) Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b1. Collect and verify data about demographic variables from different sources.
- b2. Select the appropriate diagnostic and solving methods for the prevalent demographic problems.
- b3. Link between knowledge for professional problems' solving in the field of demography.
- b4. Identify determinant of population problems of the community and find solutions.
- b5. Analyze researches and issues related to demography

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

- c1. Master the basic and professional skills in detection and management of demographic problems.
- c2. Perform community diagnosis for health problems resulting from overpopulation problem in the locality.
- c3. Assess methods and tools which can help in solving population problem

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Use information technology to serve the development of professional practice in the area of demography
- d2. Use different sources to obtain information and knowledge about demography.

**Epidemiology module**

**a) Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Explain the three interacting ecological factors—agent(bacteria, parasites, viruses, ect....), host, and environment—affecting the occurrence of disease.
- a2. List essential public health functions.
- a3. Define patterns of care as preventive and curative, and describe the levels of preventive care.
- a4. Define basic components of clinical epidemiology and its basic components.
- a5. Describe the public health surveillance system and its use in the community setting.
- a6. Explain different methods for prevention and control and Define methods of prevention and control for different epidemiological problems in the community.
- a7. List risk factors relevant to selected non-communicable diseases e.g cancer.
- a8. Describe the infectious cycle and Identify the infectious cycle for each of the infectious diseases.

**b) Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b1. Collect and verify data from different sources about epidemiology and prevalent epidemiological problems
- b2. Select the appropriate diagnostic and solving methods for the prevalent epidemiological problems.
- b3. Link between knowledge for professional problems' solving in the area of epidemiology.
- b4. Analyze researches and issues related to epidemiology.

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

- c1. Master the basic and professional skills in the area of epidemiology.
- c2. Write reports to describe various epidemiologic problems.
- c3. Conduct Health Surveys for infectious diseases aspects.
- c4. Diagnose the epidemiological aspects of an epidemic of infectious or non infectious diseases among the community.

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Use information technology to serve the development of professional practice in the area of epidemiology
- d2. Use different sources to obtain information and knowledge about prevalent epidemiological problems in the community.
- d3. Learn himself continuously in the field of epidemiology.

**Health administration module**

**a) Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Describe the principle of health administration.
- a2. Mention scientific developments in the field of Public Health and Community Medicine.
- a3. Mention ethical and legal principles of professional practice in the field of public health and community medicine.
- a4. List the principles and fundamentals of quality in professional practice in the field of public health and community medicine.

**b) Intellectual Skills**

By the end of the course, the student is expected to be able to:

- b1. Assess risk in professional practices in the field of public health and community medicine.
- b2. Plan to improve performance in the field of public health and community medicine.
- b3. Analyze researches and issues related to administration.

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to be able to:



- c1. Master the basic and professional skills in the area of administration
- c2. Assess methods and tools existing in the area of administration.

**d- General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Develop rules and indicators for assessing the performance of others.
- d2. Develop skills to administer a team efficiently.
- d3. Manage time efficiently.

**Study of Health problems and Special health care services module**

**a) Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Mention concepts of health and disease and their spectrum of health.
- a2. Describe the determinants of health on the individual, the family, and the community levels.
- a3. Identify prevalent Health problems in the community and related risk factors.
- a4. Explain different methods for prevention and control and Define methods of prevention and control for different health problems in the community
- a5. Describe the health needs for vulnerable group children and women in child bearing period and health needs for elderly, and rural areas residents.
- a6. Describe the principle of school health.
- a7. Describe the principle of occupational health.

**b) Intellectual Skills**

By the end of the course, the student is expected to be able to:

- b1. Select the appropriate diagnostic and solving methods for the prevalent health problems in the community.
- b2. Link between knowledge for professional solving of different health problems in the community.
- b3. Identify health needs of vulnerable and special groups in the community and find solutions.
- b4. Analyze researches and issues related to special care services and prevalent health problems.

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to be able to:

- c1. Assess methods and tools existing in the area of occupational health.
- c2. Assess methods and tools existing in the area of school health
- c3. Assess methods and tools existing in the area of maternal and child health care.
- c4. Assess methods and tools existing in the area of public health and community medicine which can be used in solving prevalent health problems.

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Use information technology to understand needs of community in different public health aspects(occupational health, school health, maternal and child care) to determine quality of services.
- d2. Use information technology to serve the development of professional practice in the area of diagnosis and management of prevalent health problems.
- d3. Use of different sources to obtain information and knowledge about special health care services .
- d4. Use different sources to obtain information and knowledge to help in solving prevalent health problems.

**Health problem related to nutritional deficiency and method of prevention module :**

**a) Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Identify nutritional requirements essential for each age group and nutrition of vulnerable groups.
- a2. Mention different types of malnutrition diseases and methods for prevention and methods of nutritional assessment.

**b) Intellectual Skills**

By the end of the course, the student is expected to be able to:

- b1. Link between knowledge for professional solving of prevalent nutritional problems in the community.
- b2. Analyze researches and issues related to prevalent nutritional problems.

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to be able to:

- c1. Perform community diagnosis for nutritional health problems in the locality and find solutions.

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Use information technology to serve the development of professional practice in assessment of nutritional status and solving nutritional problems.
- d2. Learn himself continuously in the field of nutrition and nutritional assessment.

**Advanced course in the specialty e.g. Epidemiology**

**a) Knowledge and understanding:**

By the end of the course, the student is expected to be able to:

- a1. Enumerate details of advanced patterns of care (preventive and curative), and describe the advanced levels of preventive care.
- a2. List details of clinical epidemiology components and the advances in the epidemiology of different communicable and non-communicable diseases.
- a3. Describe advanced public health surveillance systems and their use in the community setting.
- a4. Explain advanced methods for prevention and control for different epidemiological problems in the community.
- a5. List detailed risk factors relevant to selected non-communicable diseases e.g. cancer.

**b) Intellectual Skills**

By the end of the course, the student is expected to be allowed to:

- b1. Collect and verify data from different sources about epidemiology and prevalent epidemiological problems
- b2. Select the appropriate diagnostic and solving methods for the prevalent epidemiological problems.
- b3. Link between knowledge for professional problems' solving in the area of epidemiology.
- b4. Analyze researches and issues related to epidemiology.

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to practice the following:

- c1. Master the basic and professional skills in the area of epidemiology.
- c2. Write reports to describe various epidemiologic problems.
- c3. Conduct Health Surveys for infectious diseases aspects.
- c4. Diagnose and control an epidemic of infectious or non-infectious diseases among the community.

**d) General and Transferable Skills:**

By the end of the course, the student is expected to be able to:

- d1. Use information technology to serve the development of professional practice in the area of epidemiology

d2. Use different sources to obtain information and knowledge about prevalent epidemiological problems in the community.

d3. Learn himself continuously in the field of epidemiology.

### 3. Contents

#### Medical Biostatistics and methodology module

Topic	No. of hours	Lecture	Tutorial/Practical
Details of selected epidemiological study designs Case report	4	2	2
Case series	4	2	2
Ecological studies	4	2	2
Correlatioal studies	4	2	2
Details of Analytical studies	4	2	2
Basics of experimental studies	4	2	2
Detailed sampling techniques and uses of each type	4	2	2
Screening and evaluation of screening tests	4	2	2
Basics of selected tests of of significance T test Student T test	4	2	2
Paired T test	4	2	2
Chi square test	4	2	2
Epidemiological analysis of an epidemic	4	2	2
Principles of questionnaire design	4	2	2
Comments on tables and graphic presentation	4	2	2
Basics of analytical statistics	2	1	1
Details of descriptive statistics	2	1	1
<b>Total</b>	<b>60</b>	<b>30</b>	<b>30</b>
<b>Credit hours</b>	<b>3</b>	<b>2</b>	<b>1</b>

#### Demography module

Topic	No. of hours	Lecture	Tutorial/Practical
Concepts and terminology of demography	4	2	2
Demographic variables	4	2	2
Sources_of demographic data	4	2	2
Population census	6	3	3
Methods of population estimation	4	2	2
Population pyramid	6	3	3
Life expectancy	4	2	2
Concept of vital statistics	4	2	2
mortality statistics	4	2	2
fertility statistics	6	3	3

statistics of marriage and divorce	4	2	2
Other types of vital statistics	4	2	2
Population problem	6	3	3
<b>Total</b>	<b>60</b>	<b>30</b>	<b>30</b>
<b>Credit hours</b>	<b>3</b>	<b>2</b>	<b>1</b>

### Epidemiology module

Topic	No. of hours	Lecture	Tutorial/ Practical
Prevention and Control aspects of the ds		2	Computer search assignment & Field observation & reporting &/or Field investigation
Levels of Prevention in the community		2	
Chain events of Infectious cycle		2	
Epidemiology of selected communicable diseases: Viral ds: Hepatitis		2	
Polio		1	
Diarrheal ds		1	
Malaria, Filaria, Yellow fever		1	
Dengue, Rift Valley,		1	
Viral heamorrhagic fevers.. Ebola, Lassa, Merburg.....etc		2	
AIDs		2	
Rabies		1	
Others		1	
Bacterial ds: - Tetanus		1	
Typhoid & Paratyphoid		1	
Food Poisoning		1	
Tuberculosis		2	
Brucellosis		1	
Others: Shistosomiasis		1	
Other Parasitic infestation		1	
Locally endemic ds		2	
Diseases of Public Health Importance		2	
Epidemiology and risk factors of non-communicable diseases		2	
Cancer		2	
Emerging and Remerging ds		2	
SARS		1	
Avian flue		2	

Global Environmental & Climate determinants of diseases		2	
International classification of diseases		2	
Community diagnosis, ds. Surveillance & Surveys		2	
Investigation of an epidemic, the attack rates		1	
<b>Total</b>	<b>75</b>	<b>45</b>	<b>30</b>
<b>Credit hours</b>	<b>4</b>	<b>3</b>	<b>1</b>

### Health administration module

Topic	No. of hours	Lecture	Tutorial/ Practical
Basics of Health services administration terminology	2	1	1
General system theory	4	2	2
System input	6	3	3
System output	6	3	3
Concept of feedback	6	3	3
Principles of administration process components	6	3	3
Concepts of goals, objective and target	6	3	3
Concept and basics of planning	6	3	3
Concept and basics of organizing	6	3	3
Concept and basics of supervision	6	3	3
Concept and basics of evaluation	6	3	3
<b>Total</b>	<b>60</b>	<b>30</b>	<b>30</b>
<b>Credit hours</b>	<b>3</b>	<b>2</b>	<b>1</b>

### Study of Health problems and Special health care services module

Topic	No. of hours	Lecture	Tutorial/ Practical
Concept of health and disease		2	Computer search assignment & Field observation & reporting &/or Field investigation
determinants of health		3	
common causes of health problems		5	
concept of vulnerable groups		5	
school health		5	
basics of maternal and child care		5	
basics of occupational health		5	
basics of geriatric health		5	
special care services and quality		5	
rural health		5	
<b>Total</b>	<b>105</b>	<b>45</b>	<b>60</b>
<b>Credit hours</b>	<b>5</b>	<b>3</b>	<b>2</b>

**Health problem related to nutritional deficiency and method of prevention**

Topic	No. of hours	Lecture	Tutorial/Practical
<u>Nutrition</u>	6	3	3
nutrition of pregnant women			
nutrition of mothers during breast feeding	4	2	2
nutrition of children and adolescent	4	2	2
nutrition of elderly	6	3	3
nutrition in weaning	4	2	2
malnutrition and diseases of nutrients deficiency:			
vitamin deficiencies	6	3	3
iron deficiency and other types of nutritional anemia	6	3	3
minerals deficiencies	6	3	3
protein energy malnutrition	6	3	3
- detailed methods of nutritional assessment	6	3	3
Other health problems related to nutrition e.g. obesity.....	6	3	3
<b>Total</b>	<b>60</b>	<b>30</b>	<b>30</b>
<b>Credit hours</b>	<b>3</b>	<b>2</b>	<b>1</b>

**Advanced course in the specialty e.g. Epidemiology**

Topic	No. of hours	Lecture	Tutorial/ Practical
Advanced methods of Prevention and Control of the diseases		5	Computer search assignment & Field observation & reporting &/or Field investigation
Advanced levels of Prevention in the community		5	
the advances in the epidemiology of communicable diseases		6	
the advances in the epidemiology and risk factors of non- communicable diseases		6	
The advances in Global Environmental & Climate determinants of diseases		6	
advanced classification of diseases		5	
Advanced methods of Community diagnosis		6	
Advanced methods of diagnosis and control of epidemics and outbreaks		6	
<b>Total</b>	<b>90</b>	<b>45</b>	<b>30</b>
<b>Credit hours</b>	<b>4</b>	<b>3</b>	<b>1</b>

**4. Teaching and Learning Methods**

- 4.1- Lectures.
- 4.2- Practical sessions.
- 4.3- Computer search assignments
- 4.4- Field training (Community convoys)

**5. Student Assessment Methods**

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2- Log book	- General transferable skills
5.3-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.4-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.5 Computer search assignment	-General transferable skills, intellectual skills

**Assessment Schedule**

- Assessment 1.....Logbook.... . week: 85
- Assessment 2.....Final written exam..... week: 96
- Assessment 3.....Final oral exam..... week: 96
- Assessment 4..... Attendance and absenteeism throughout the course
- Assessment 5 .....Computer search assignment
- Performance throughout the course

**Weighting of Assessments**

Final written examination	50%
Oral Examination	50%
Total	100%

Formative only assessments: Logbook, Attendance and absenteeism throughout the course and Computer search assignment

**6. List of References**

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

**6.2- Recommended Books**

- 1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.
- 2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.
- 3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

**6.3- Periodicals, Web Sites, ...etc**

- 1-American Journal of Epidemiology
- 2-British Journal of Epidemiology and Community Health
- 3- WWW. CDC and WHO sites

**7. Facilities Required for Teaching and Learning:**

1. **ADEQUATE INFRASTRUCTURE:** including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, good source of aeration, bathrooms, good illumination, and safety & security tools.
2. **TEACHING TOOLS:** including screens, computers including cd (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, colour and laser printers.

**Course Coordinator:** Dr/Rasha Abd El-Hameed Aly

**Head of Department:** Prof/ Ahmed Fathy Hammed

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