**Peer Revision**

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

# Program Specification of Medical Doctorate Degree of Public Health & Community Medicine

**Sohag University**  **Faculty of medicine**

## A- Basic Information

1. Program title: MD degree in Public Health & Community Medicine

2. Program type: single.

3. Faculty: Faculty of Medicine

4. Department: Public Health and Community Medicine.

5. Coordinator:  Dr. : /Ahmed Fathy Hammed

6. Assistant coordinator: Dr. Fouad Metry Atya

7. External evaluator: Prof. Olfat Farag Mohamed Ali; Prof. of Public Health and Community Medicine. – Elmansoura University

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 advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide 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. 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 identification.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Upgrading research interest and abilities.

### 2. Attributes of the post graduate:

1. Efficient in carrying out the basics and methodologies of scientific research in Community Medicine.

2. The continuous working to add new knowledge in his field.

3. Applying the analytical course and critical appraisal of the knowledge in his specialty and related fields.

4. Merging the specialized knowledge with the other related knowledge with conclusion and developing the relationships in between them.

5. Showing a deep awareness with the ongoing problems, theories, and advanced sciences in his specialty.

2

# Program Specification of Medical Doctorate Degree of Public Health & Community Medicine

## Sohag University                    Faculty of medicine

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### B- Professional Information

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2. **Attributes of the post graduate:**
   1. Efficient in carrying out the basics and methodologies of scientific research in Community Medicine.

   2. The continuous working to add new knowledge in his field.

   3. Applying the analytical course and critical appraisal of the knowledge in his specialty and related fields.

   4. Merging the specialized knowledge with the other related knowledge with conclusion and developing the relationships in between them.

   5. Showing a deep awareness with the ongoing problems, theories, and advanced sciences in his specialty.

6. Determination of the professional problems and creating solutions for them.

7. Efficient in carrying out the professional skills in his specialty.

8. Using advanced suitable technologies which serves his practice.

9. Efficient communication and leadership of team work in his specialty.

10. Decision making through the available information.

11. Using the available resources efficiently and working to find new resources.

12. Awareness with his role in the development of the society and preserve environment.

13. Behaving in a way which reflects his credibility, accountability, and responsibility.

14. Keeping continuous self development and transfer his experiences and knowledge to others.

## 3. Intended learning outcomes (ILOs)
### a) Knowledge and understanding
By the end of the course, the student is expected to be able to:

a1. Mention the recent advances in principals of all aspects of  health  and disease.

a2. Describe recent advances of  the spectrum of health (mental, physical, social, ect..).

a3. Describe recent advances of the spectrum of communicable diseases

a4. Define recent advances of epidemiologic approaches to measure the occurrence of disease in communities.

a5. Identify principles of family medicine and the impact of its implementation.

a6. Explain the recent advances of environmental sanitation methods.

a7. Describe the recent advances of determinants of health on the individual, the family, and the community levels.

a8. List recent advances of essential public health functions.

a9. Define recent advances of  patterns of care as preventive and curative, and describe the levels of preventive care.

a10. Explain Egypt's population pyramid and define the information obtained from the pyramid.
a11. Describe the different profiles of the population pyramids and their interpretations.

a12. Define the recent advances of screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.

a13. Describe the study design, uses, and limitations.

a14. Define the recent advances in clinical epidemiology and its basic components.

a15. Describe the recent advances in public health surveillance system and its use in the community setting.
a16. Describe the infectious cycle.

a17. Explain the recent advances of different methods for prevention and control.

a18. Identify the infectious cycle for each of communicable diseases and How to break it to prevent and control infection.

a19. Define the recent advances of methods of prevention and control for each of communicable diseases

a20. Describe the recent advances of principles of rodent and insect control in the community and the hazards of rodent and insect.

a21. List the recent advances of risk factors relevant to selected non-communicable diseases including environmental risk factors.

a22. Identify the Vulnerable groups in the community.

a23. Describe elements, component, principles, strategies and Instruments of Primary Health care.

a24. Explain Indicators of Primary Health care.

a25. Identify the Impact of Health sector reform on primary health care services and facilities

a26. Identify quality of services in primary health care facilities.

a27. Describe the health needs for vulnerable group children and women in child bearing period.
a28. Describe the recent advances of the principle of school health.
a29. Describe the recent advances of the principle of occupational health.

a30. Identify various occupational Hazards, common occupational health problems in the community.

a31. Identify compensable occupational health diseases.

a32. Describe the recent advances of methods of occupational protection and prevention of occupational diseases

a33. Describe the recent advances of the principle of health administration.

a34. Identify nutritional requirements.

a35. Describe the source of important nutrients.

a36. Illustrate the nutritional status and prevention of malnutrition and the recent advances in nutritional status assessment.
a37. Identify principles of Geriatric Health.
a38. Identify common Health problems among geriatrics and the recent advances of prevention and control of such problems.
a39. Identify different geriatric health care programs
a40. Define the recent advances of life expectancy.
a41. Enumerate the recent advance in data collection, presentation and analysis in the field of Public Health and Community Medicine
a42. Enumerate the recent advances in biostatistics and computer.
a43. Define Diet modifications in disease situation for different types of diseases.
a44. Describe sampling techniques and list advantages of sampling.
a45. Describe the normal curves and its uses.
a46. Enumerate the recent advances of principles, methodologies, tools and ethics of scientific research.
a47. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of public health and community medicine.
a48. Enumerate the principles and fundamentals of quality of professional practice in the field of public health and community medicine.
a49. Enumerate the effect of professional practice on the environment and the methods of environmental development and maintenance.
a50. Define epidemiologic approaches to measure the occurrence of disease in communities.
a51. Build a model explaining the environmental hazards e.g. Disasters, climatic changes and the effect on human and public health.

## b) Intellectual skills
By the end of the course, the student is expected to be able to:

b1. Collect and verify data from different sources and interpret data to diagnose prevalent . health problems in the community, using various epidemiological strategies and use it for titration and conclusion.

b2. Select the appropriate diagnostic tools to reach a final solving of the prevalent health problems in the community.

b3. Conduct research studies that adds to knowledge.

b4. Formulate scientific papers in the area of public health and community medicine.

b5. Assess risk in professional practices in the field of public health and community medicine.

b6. Plan to improve performance in the field of public health and community medicine.

b7. Identify community problems and find solutions .

b8. Innovate and create nontraditional solutions to prevalent community health problems.

b9. Manage Scientific discussion based on scientific evidences and proofs.

b10. Criticize researches related to public health and community medicine.

c) **Professional and practical skills**

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

c1. Master the basic and modern professional skills in the area of public health and community medicine.

c2. Write and evaluate of medical reports.

c3. Evaluate and develop methods and tools existing in the area of public health and community medicine.

c4. Evaluate different methods of diagnosis and management of prevalent community problems.

c5. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent community problems and training junior staff.

c6. Design new methods, tools and ways of professional practice.

d) **General and transferable skills**

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

d1. Present reports in seminars effectively.

d2. Use appropriate computer program packages.

d3. Teach others and evaluate their performance.

d4. Assess himself and identify his personal learning needs.

d5. Use of different sources for information and knowledge.

d6. Work coherently and successfully as apart of a team and team's leadership.

d7. Manage scientific meetings according to the available time.

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 cession 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 cession N0.191, dated: 15/3/2010. The adoption of NARS and the suggested ARS were approved by University council degree No 587, in its cession No.60. Dated 26-12-2011

5. **Curriculum structure and contents:**

5.a- **Program duration:** 7 semesters(3.5 years).

5.b- **Program structure:**

5.b.i **No. of hours per week**

| Subject | No. of hours/weeks | | |
|---|---|---|---|
| | Lectures | practical | clinical |
| First Part: | | | |
| Minors : ResearchMethodology | 2 | 2 | |

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| | | |
|---|---|---|
| Bio Statistics &Computer | 2 | 2 |
| Primary Medical Report | 1 | 2 |
| administration | 1 | ------- |
| epidemiology | 1 | ------- |
| environmental health | 1 | ------- |
| 0pational courses: one of the followings: Health economics | 3 | ------- |
| Mental health | 3 | -------- |
| Health laws and research ethics | 3 | -------- |
| **2nd part** major | | |
| Communicable and non communicable diseases | 1 | 2 |
| Occupational health | 1 | 2 |
| Primary health care | 1 | 1 |
| Health of vulnerable groups | 1 | 1 |
| nutrition | 0.5 | ----- |
| family medicine | 0.5 | 2 |
| geriatrics | 0.5 | 1 |
| Clinical epidemiology | 1 | 2 |
| Advanced course in specialty | 0.5 | 1.5 |

| code | Item | | No | % |
|---|---|---|---|---|
| b.i | Total credit hours | Compulsory | 87 | 96.7 |
| | | Elective | 0 | 0 |
| | | Optional | 3 | 3.3 |
| b.iii | credit hours of basic sciences courses | | 6 | 6.7 |
| b.iv | credit hours of courses of social sciences and humanities | | 0 | 0 |
| b.v | credit hours of specialized courses: | | 53 | 58.9 |
| b.vi | credit hours of other course | | 8 | 8.9 |
| b.vii | Practical/Field Training | | 8 | 8.9% |
| b.viii | Program Levels (in credit-hours system): Level 1: 1st part Level 2: 2nd Part Level 3: Thesis | | 14 53 15 | 15.6 58.9 16.7 |

6. **Program courses:** 14 courses are compulsory+1/3 optional courses
    5.1-Level of program  semester 1 First part:
  A. **compulsory:**

| Course title | Total No. of credit hours | No. of hours/week | | | Program ILOS covered |
|---|---|---|---|---|---|
| | | Lect | Lab. | Exerc. | |
| ResearchMethodology | 3 h | 2 | 2 | | a12,a13,a44,a46,b2,b3,b4,b7,b8,b10,c1,c6,d5,d6 |
| Bio Statistics &Computer | 3 h | 2 | 2 | | a41,a42, a45,b1,c5,d2,d5 |
| Primary Medical Report | 2 h | 1 | 2 | | a46,.a47,b2,b4,c2,d1 |

| | | | | | |
|---|---|---|---|---|---|
| administration | 1h | 1 | ------- | | a33,a48,b5,b6,c3,d3,d4,d6,d7 |
| epidemiology | 1h | 1 | ------- | | a14,a16,a18,a50,b1,b8,c1,c3d5 |
| environment | 1h | 1 | ------- | | a6,a20,a21,a49,a51,b1,b7,c4,c5,d5 |

**b- optional – number required**

| | | | | | |
|---|---|---|---|---|---|
| Health economics | 3 h | 3 | ------- | | a8,a10,a11,a29,b2,b8,c1,c3 d5 |
| Mental health | 3 h | 3 | ------- | | a1,a2,b1,b3,c4,d5 |
| Health laws and research ethics | 3 h | 3 | ------- | | a1,a47,b9,c3,d5 |
| **2nd part** | | | | | |
| Communicable and non communicable diseases | 8 | 1 | 2 | | a3,a7,a15,a17,a19,a21,b1,b2 b3,b4,b6,c1,c2,c3,c4,c5,d1,d2 d5 |
| Occupational health | 8 | 1 | 2 | | a30,a31,a32,b1,b3,b5,b10, c1,c2,c5,c6,d1,d3,d5 |
| Primary health care | 6 | 1 | 1 | | a9,a23,a24,a25,a26, b1,b2,b3 b5,b10,c1,c2,c3,c5,d5 |
| Health of vulnerable groups | 6 | 1 | 1 | | a22,a27,a28,b1,b2,b3,b4b6,b7,c1,c3,c4,c6,d5 |
| nutrition | 2 | 0.5 | ----- | | a34,a35,a36,a43,b1,b2,b3b4,b6,b7,b8,b10,c1,c2,c3,c5,d5 |
| family medicine | 6 | 0.5 | 2 | | a5,b3,b4,b6,b10,c1,c2,c5,c6,d4,d5 |
| geriatrics | 4 | 0.5 | 1 | | a37,a38,a39,a40,b1,b2,b3,b4 b7,b8,c1,c2,c3,c5,d1,d5 |
| clinical epidemiology | 8 | 1 | 2 | | a4,a7,a50,b1,b2,b3,b4,b7,b8,b10,c1,c2,c3,c4,c5,c6,d1,d2,d5 |
| Advanced course in specialty | 5 | 0.5 | 1.5 | | a3,a17,a21,b1,b2b3,b4,b6,c1,c2,c3,c4,c5,d1,d2,d5 |

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 know how to speak & write English well
   - Candidate should have computer skills.
   - Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree No. (44), dated 6/1/2010.
   **II- Specific Requirements**
   - Master degree in Public Health and Community Medicine with at least "Good Rank".

8. **Regulations for Progression and Program Completion**
Duration of program is 90 credit hours (≥7 semesters ≥3.5 years), starting from registration till acceptance of the thesis; divided to:

**First Part: (15 Credit hours ≥6 months ≥1 semester):**
- Program-related basic science, 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 1st part.
- Two sets of exams: 1st in October — 2nd in April after fulfillment of the credit hours.
- At least 60% of the written exam and 60% of the total oral and practical/clinical 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.
- GPA of ≥1.3 is needed to pass this level (semester).

**Second Part: (50-60 Credit hours ≥24 months= 4 semesters):**
- Program related specialized science of Public Health and Community Medicine courses. At least 24 months after passing the 1st part should pass before the student can ask for examination in the 2nd part.
- Fulfillment of the requirements in each course as described in the template and registered in the log book (8 Credit hours; with obtaining ≥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= 8 Cr. Hr. X 60 working Hrs = 480 Working Hrs.
  - Collection of working Hrs. is as following:

| Activity | | Hrs |
|---|---|---|
| Grand rounds | اجتماع علمى موسع | ٦ |
| Training courses | دورات تدريبية | 12/ day |
| Conference attendance | حضور مؤتمرات علمية داخلى خارجة | ١٢/day 18/day |
| Thesis discussion | حضور مناقشات رسائل | ٦ |
| Workshops | حضور ورش عمل | ١٢/day |
| Journal club | ندوة الدوريات الحديثة | ٦ |
| Seminars | لقاء علمى موسع | ٦ |
| Morbidity and Mortality conference | ندوة تحليل المخاطر المرضية أوالوفاة | ٦ |
| Self education program | برنامج التعليم الذاتى | ٦ |

- Two sets of exams: 1st in October - 2nd in April.
- At least 60% of the written exam is needed to be admitted to the oral and practical exams.
- 4 times of oral and practical exams are allowed before the student has to re-attend the written exam.

**Third Part (Thesis) (15 Credit hours =24-48 months=4-8 semester):**
- Documentation of the subject should not be delayed for > 1.5 years after registration.
- Could start after registration and should be completed, defended and accepted after passing the 2nd part final examination, after passing of at least 24 months after documentation of the subject of the thesis and after publishing of at least one paper from the thesis in a specialized peer-reviewed journal.

o Accepting the thesis is enough to pass this part.

## 9. methods of student assessments

| Method of assessment | weight | The assessed ILOs |
|---|---|---|
| 1-Research assignment | 50% | - General transferable skills, intellectual skills |
| 2-Written Exams:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- Intellectual skills, General transferable skills |
| 3-Structured Oral Exams | 50% | Intellectual skills, Knowledge, General transferable skills |
| 4-OSPE | | intellectual skills, practical skills |

**Assessment schedule:**

Part I:
- Biostatistics & Computer:    Written Exam (2 hours) + Structured oral Exam+ OSPE
- Research Methodology:  Written Exam (2 hours) + structured oral Exam+ OSPE
- Primary medical reports: Written Exam (2 hour) + Structured oral Exam+ OSPE
- Epidemiology, Administration and environmental health: Written Exam (2 hours) + structured oral Exam.
- Optional Course: Written Exam (2 hours) + structured oral Exam.
Part II:
- Public Health & Community Medicine: Two Written Exams (3 hours for each) + Structured oral Exam

## 10. Evaluation of program:

| Evaluator | Tool | Sample |
|---|---|---|
| 1- Senior students | Questionnaire | 2 |
| 2- Alumni | Questionnaire | 3 |
| 3- Stakeholders ( Employers) | Questionnaire | 20 |
| 4-External Evaluator(s) (External Examiner(s) | Report | 1 |
| 5- Other | | |

# Course Specifications of Biostatistics and computer in MD degree in public health and community medicine

**Sohag university**                                    **Faculty of Medicine**

1. Program on which the course is given: MD 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 Faculty council No. "317", decree No. "1533" dated 17/12/2018

## A. Basic Information

**Title: Course Specifications of Biostatistics and computer in MD degree in public health and community medicine**.

**Code: COM 0506-300**

**Total hours**

| Title | lecture | practical | total | Credit hours |
|---|---|---|---|---|
| Biostatistics and computer | 30 | 30 | 60 | 3 |

## B. Professional Information
## 1. <u>Overall Aims of Course</u>

The aim of this course is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide 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. <u>Intended Learning Outcomes of Courses (ILOs)</u>

### a) Knowledge and understanding:

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

a1. Enumerate different programs of analysis of data and statistical packages

a2. Define the recent advances of sources of data and methods of collection.

a3. Summarize data, construct tables and graphs

a4. Calculate measures of central tendency and measures of dispersion

a5. Describe the normal curves and its uses

a6. Illustrate  selected tests of significance and the inferences obtained from such tests

a7. Illustrate selected tests of significance for parametric and non parametric inferences

a8. Identify factor analysis and discrimination analysis

**b) Intellectual Skills**

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

b1. understand how to collect and verify data from different sources

b2. Interpret data to diagnose prevalent health problems in the community, using various epidemiological strategies and use it for titration and conclusion

**c) Professional and Practical Skills:**

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

c1. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent community problems and training junior staff

**d) General and Transferable Skills:**

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

d1. Use appropriate computer program packages.

d2. Use of different sources for information and knowledge about biostatistics.

## 3. Contents

| Topic | No. of hours | Lecture | Tutorial/ Practical |
|---|---|---|---|
| Recent advances in collection, analysis and interpretation of data | 6 | 3 | 3 |
| -Details of Tests of significance: Proportion test | 6 | 3 | 3 |
| Chi-square test | 6 | 3 | 3 |
| Student T test | 6 | 3 | 3 |
| Paired T test | 6 | 3 | 3 |
| -Correlation | 6 | 3 | 3 |
| -Regression | 6 | 3 | 3 |
| -ANOVA test | 6 | 3 | 3 |
| -Discrimination analysis | 6 | 3 | 3 |
| Factor analysis | 3 | 1.5 | 1.5 |
| - parametric and non parametric tests | 3 | 1.5 | 1.5 |
| **Total** | **60** | **30** | **30** |
| **Credit Hours** | **3** | **2** | **1** |

## 4. Teaching and Learning Methods

4.1- Lectures

4.2- Practical sessions

4.3- Computer search assignments

4.4- Computer application

## 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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- Intellectual skills, General transferable skills, |
| 5.3-Structured Oral Exam | - Intellectual skills, Knowledge, General transferable skills |
| 5.4 OSPE | -Practical skills intellectual skills |
| 5.5Computer 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           OSPE                  Week: 24
Assessment 4          Attendance and absenteeism throughout the course
Assessment 5          Computer search assignment performance throughout the course

**Weighting of Assessments**

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

**Formative only assessments: attendance and absenteeism and Computer search assignments performance.**

## 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.

**Course Coordinator:** Dr/Fouad Metry Atya

**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 in MD degree in public health and community medicine

**Sohag university**                         **Faculty of Medicine**

1. Program (s) on which the course is given: 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: 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

**Title:** Course Specifications of Research Methodology in MD degree in Public health and community medicine

**Code: COM 0506-300**

**Total hours**

| Title | lecture | practical | total | Credit hours |
|---|---|---|---|---|
| Research Methodology | 30 | 30 | 60 | 3 |

## B. Professional Information
## 1. <u>Overall Aims of Course</u>

The aim of this course is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide 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. 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 identification.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Upgrading research interest and abilities.

## 2. <u>Intended Learning Outcomes of Courses (ILOs)</u>
### 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. Enumerate 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 able to:
b1. Conduct research studies that adds to knowledge.
b2. Formulate scientific papers in the area of his specialty
b3. Innovate and create researches to find solutions to prevalent health problems
b4. Criticize researches related to the specialty.

**c) Professional and Practical Skills:**

By the end of the course, the student is expected to be able to:
c1. Master the basic and modern professional skills in conducting researches in the area of his specialty.
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 ) | 8 | 4 | 4 |
| Clinical trials, Quasi experimental study | 8 | 4 | 4 |
| Bias and errors | 8 | 4 | 4 |
| Setting a hypothesis | 8 | 4 | 4 |
| Recent advances in screening | 8 | 4 | 4 |
| Evidence – based Medicine: Concept and examples Applicability Scientific writing: A protocol A curriculum | 8 | 4 | 4 |
| Setting an objective - Critical thinking | 8 | 4 | 4 |
| Formulation of papers | 4 | 2 | 2 |
| **Total** | **60** | **30** | **30** |
| **Credit hours** | **3** | **1** | **2** |

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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- Intellectual skills, General transferable skills, |
| 5.3-Structured Oral Exam | - Intellectual skills, Knowledge, General transferable skills |
| 5.4 OSPE | -Practical skills intellectual skills |
| 5.5Computer 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           OSPE             Week: 24
Assessment 4       Attendance and absenteeism throughout the course
Assessment 5       Computer search assignment performance throughout the course

**Weighting of Assessments**

Final-term written examination           50     %
Final Structured Oral Exam, OSPE      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, 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.

**Course Coordinator:** Dr/Fouad Metry Atia

**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 Primary Medical Reports for MD degree in public health and community medicine

## Sohag university            Faculty of Medicine

1. Program on which the course is given: MD 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: Forensic medicine and clinical toxicology

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 Specifications of primary medical reports for MD degree in public health and community medicine

**Code: FOR 0506-300**

**Total hours**

| Title | lecture | practical | Total | Credit hours |
|---|---|---|---|---|
| Primary medical reports | 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 advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide 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 ethical considerations of medical research involving human subjects

a2. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of public health and community medicine.

a3. Mention obligation of physicians towards patients, colleagues, community.

a4. Identify Types of malpractice, and items of responsibility in the field of public health and community medicine.

a5. Mention medicolegal aspects of important matters related affecting public health such as organ transplantation, intersex states, euthanasia, assisted reproduction techniques

b) **Intellectual Skills:**

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

b1. Formulate reports in the area of public health and community medicine including death certificate and toxicological reports.

b2. Select the appropriate diagnostic tools for diagnosis of poisoning and select the suitable method of management

c) **Professional and Practical Skills:**

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

c1. Write and evaluate of medical reports including death certificate and toxicological reports

d) **General and Transferable Skills:**

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

d1. present reports in seminars effectively after formulation and evaluation.

## 3. Contents

| Topic | No. of hours | Lecture | practical |
|---|---|---|---|
| Definition of poison, classification of poison and factors that influence toxicity | ٥ | ٢ | 3 |
| Diagnosis & Management of poisoning including: respiratory support, circulatory support and neurological support | ٦ | ٢ | ٤ |
| toxicological sampling and permanent infirmity | ٦ | ٢ | ٤ |
| How to write a toxicological report & How to write death certificate | ٥ | ٢ | ٣ |
| Obligation of physicians (towards patients, colleagues, community) | ٥ | ٢ | ٣ |
| Consent, and professional secrecy | ٥ | ٢ | ٣ |
| Types of malpractice, and items of medical responsibility | ٤ | ١ | ٣ |
| Medico legal aspects of organ transplantation, intersex states, euthanasia, assisted reproduction techniques | ٤ | ١ | ٣ |
| Ethical considerations of medical research involving human subjects | ٥ | ١ | ٤ |
| **Total** | **45** | **15** | **30** |
| **Credit hours** | **2** | **1** | **1** |

## 4. Teaching and Learning Methods

4.1- Lectures

4.2- Practical sessions

4.3- Assignment

## 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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- Intellectual skills, General transferable skills, |
| 5.3-Structured Oral Exam | - Intellectual skills, Knowledge, General transferable skills |
| 5.4 OSPE | -Practical skills intellectual skills |
| 5.5Computer 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            OSPE                       Week: 24
Assessment 4        Attendance and absenteeism throughout the course
Assessment 5        Computer search assignment performance throughout the course

**Weighting of Assessments**

Final-term written examination                50      %
Final Structured Oral Exam, OSPE              50      %
       Total                                 100     %
       formative only assessments: attendance and absenteeism, Computer search assignment.

6. **List of References**

**Essential books**
Simpson's Forensic Medicine, 13th Edition, by Jason Payne-James, RichardJones,Steven B Karch,John Manlove. published by Hodder& Stoughton Ltd (2011).
Goldfrank'sToxicologic Emergencies, (9th ed.) by Lewis S. Nelson, Robert S. Hoffman, Mary Ann Howland, Neal A Lewin, Lewis R. Goldfrank, Neal E. Flomenbaum. Published by McGraw-Hill (2011)
Emergency Toxicology,Peter Viccellio,(2nded.)  Published by Lippincott Williams & Wilkins (1998)
**Recommended books**
Medical ethics.(1997)Robert M Veatch. 2nd edition.Jones & Bartlett publishers
**Periodicals and websites……etc.**
Egyptian journals of forensic medicine and clinical toxicology
International journals of forensic medicine and clinical toxicology
www.sciencedirect.com
https://emedicine.medscape.com
https://www.ncbi.nlm.nih.gov/pmc/

**Facilities Required for Teaching and Learning:**
1. 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.


**Course Coordinator:** Dr.  Soheir Ali Mohamed
 **Head of Department:** Dr.  Soheir Ali Mohamed

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

# Course Specifications of Administration, Epidemiology and Environmental health in MD degree in Public health and community medicine

**Sohag university**                                    **Faculty of Medicine**

1. Program on which the course is given: MD 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

**Title:** Course Specifications of Administration, Epidemiology and Environmental health in MD degree in public health and community medicine

**Code: COM 0506-300**

**Total hours**

| module | Lecture | Practical | Total | Credit hours |
|---|---|---|---|---|
| Administration | 15 | --- | 15 | 1 |
| Epidemiology | 15 | --- | 15 | 1 |
| Environmental health | 15 | --- | 15 | 1 |

## A. Professional Information

## 1. <u>Overall Aims of Course</u>

The aim of this course is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide 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. <u>Intended Learning Outcomes of Courses (ILOs)</u>

**Administration Module:**

### a) Knowledge and understanding:

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

a1. Describe the recent advances of the principle of health administration.

a2. Enumerate the principles and fundamentals of quality of 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.

### c) Professional and Practical Skills:

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

c1. Evaluate and develop methods and tools existing in the area of public health and community medicine.

c2. Evaluate different methods of diagnosis and management of prevalent community problems.

**d) General and Transferable Skills:**

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

d1. Teach others and evaluate their performance.

d2. Assess himself and identify his personal learning needs.

d3. Work coherently and successfully as a part of a team and team's leadership.

d4. Manage scientific meetings according to the available time.

## Epidemiology Module:

**a) Knowledge and understanding:**

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

a1. Define the recent advances in clinical epidemiology and its basic components.

a2. Describe the infectious cycle.

a3. Identify the infectious cycle for each of the infectious diseases.

a4. Define epidemiologic approaches to measure the occurrence of disease in communities.

**b) Intellectual Skills**

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

b1. Collect epidemiological data from different sources and interpret data to diagnose prevalent health problems in the community, using various epidemiological strategies and use it for titration and conclusion.

b2. Innovate and create nontraditional solutions to prevalent epidemiological problems.

**c) Professional and Practical Skills:**

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

c1. Master the basic and modern professional skills in the area of epidemiology.

c2. Develop methods and tools existing in the area of epidemiology.

**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 in the area of epidemiology.

## Environmental health Module:

**a) Knowledge and understanding:**

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

a1. Explain the recent advances of environmental sanitation methods including sterilization and disinfection methods.

a2. Describe recent advances in principles of rodent and insect control in the community and the hazards of rodent and insect on the environment.

a3. List the recent advances of Environmental risk factors non- communicable diseases as Cancer, DM, Atherosclerosis, and Ischemic H D, Congenital diseases

a4. Understand the effect of professional practice on the environment and the methods of environmental development and maintenance

a5. Build a model explaining the environmental hazards e.g. Disasters, climatic changes and the effect on human and public health.

**b) Intellectual Skills**

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

b1. Collect and verify data from different sources and interpret data to diagnose prevalent environmental problems in the community, using various epidemiological strategies and use it for titration and conclusion.

b2. Identify environmental problems and find solutions

**a. Professional and Practical Skills:**

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

c1. Evaluate different methods of diagnosis and management of prevalent environmental problems.

c2. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent environmental problems and training junior staff.

**c) 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 in the area of environmental health.

### 3. Contents:

**Administration module:**

| Topic | No. of hours | Lecture | Tutorial/ Practical |
|---|---|---|---|
| Recent advances of : Planning | 2 | 2 | |
| Organizing | 2 | 2 | |
| Staffing, Directing | 2 | 2 | |
| Coordinating | 2 | 2 | |
| Budgeting | 2 | 2 | |
| Supervision, Evaluation | 3 | 3 | |
| Time management, Conflict management | 2 | 2 | |
| Total | 15 | 15 | |
| Credit hours | 1 | 1 | ------ |

**Epidemiology Module**

| Topic | No. of hours | Lecture | Tutorial/ Practical |
|---|---|---|---|
| Recent advances in clinical epidemiology and its basic components. | 4 | 4 | ------ |
| Advanced diagnostic methods of epidemiological problems. | 4 | 4 | ------ |
| advanced solutions to epidemiological problems Bioterrorism | 4 | 4 | ------ |
| Disasters Implication | 3 | 3 | ------ |
| **Total** | **15** | **15** | **------** |
| Credit hours | 1 | 1 | ------ |

**Environmental health module**

| Topic | No. of hours | Lecture | Tutorial/ Practical |
|---|---|---|---|
| -Recent advances of environmental sanitation | 3 | 3 | ------ |
| - recent advances of Sterilization and disinfection | 3 | 3 | |
| -Disaster risk, management, health impact | 3 | 3 | |
| -Environmental risk factors non- communicable diseases as Cancer, DM, Atherosclerosis, and Ischemic H D, Congenital diseases. | 3 | 3 | |
| -Recent advances of climatic changes | 3 | 3 | |
| **Total** | **15** | **15** | **------** |
| Credit hours | 1 | 1 | **------** |

## 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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- Intellectual skills, General transferable skills, |
| 5.3-Structured Oral Exam | - Iintellectual skills, Knowledge, General transferable skills |
| 5.4Computer search assignment | -General transferable skills, intellectual skills |

### Assessment Schedule

    Assessment 1Final written exam                 Week: 24
    Assessment 2Final 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 written examination | 50 | % |
|---|---|---|
| Structured Oral Exam | 50 | % |
| Total | 100 | % |

**Any formative only assessments:**

## 6. List of References

6.1- Essential Books (Text Books)
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/Fouad Metry Atia

**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 MD degree in Health Economics for Public health and community medicine

**Sohag university**                                    **Faculty of Medicine**

1. Program on which the course is given: MD 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

**Title:** Course Specifications of MD degree in Health economics for public health and community medicine

**Code: COM 0506-300**

**Total hours**

| Title | lecture | practical | total | credit |
|---|---|---|---|---|
| Health economics | 45 | --- | 45 | 3 |

## A. Professional Information

### 1. Overall Aims of Course

The aim of this course is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide 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. Skills necessary for preparing for proper diagnosis and management of community problems, skills for conducting and supervising researches on basic scientific methodology.
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. List essential public health programs and their economic background.
a2. Explain Egypt's population pyramid and define the information obtained from the pyramid and its impact on health economics.
a3. Understand the different profiles of the population pyramids and their interpretations.
a4. Describe the economic impact of implementing the recent advances of 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 economic diagnostic tools to reach a final solving of the prevalent health problems in the community
b2. Innovate and create economic solutions to prevalent community health problems

#### c) Professional and Practical Skills:

By the end of the course, the student is expected to be able to:
c1. Master the basic and modern professional skills in the area of health economics
c2. Evaluate the economics of the different methods and tools existing in the area of public health and community medicine

**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 in the area of health economics.

3. **Contents**

| Topic | No. of hours | Lecture | Tutorial/ Practical |
|---|---|---|---|
| Concepts and Terminology | 7 | 7 | |
| Budgeting for health: <br> - Curative <br> - Preventive | 8 | 8 | |
| Planning for Funding Health projects | 8 | 8 | |
| Budgeting for Health projects | 8 | 8 | |
| Economic Burden of health | 7 | 7 | |
| Health insurance | 7 | 7 | |
| **Total** | **45** | **45** | |
| **Credit hours** | **3** | **3** | |

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: <br> -Short essay: 40% <br> -structured questions: 25% <br> -MCQs: 20% <br> -Commentary, Problem solving: 15% | - Knowledge <br> - Knowledge <br> - Knowledge, intellectual skills <br> - Intellectual skills, General transferable skills, |
| 5.3-Structured Oral Exam | - Iintellectual skills, Knowledge, General transferable skills |
| 5.4Computer 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 written examination | 50% |
| 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

6. 6.1- Essential Books (Text Books)

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/Fouad Metry Atya

**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 MD degree in Mental Health in public health and community medicine

**Sohag university**                    **Faculty of Medicine**

1. Program on which the course is given: MD 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; 1st part

6. Date of specification approval Faculty council No. "317", decree No. "1533" dated 17/12/2018

## A. Basic Information

**Title:** Course Specifications of MD degree in Mental Health in Public health and community medicine

**Code: COM 0506-300**

**Total hours**

| Title | lecture | practical | Total | credit |
|-------|---------|-----------|-------|--------|
| Mental Health | 45 | ---- | 45 | 3 |

## B. Professional Information

### 1. Overall Aims of Course

The aim of this course is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide 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. Mention the recent advances in principals of mental health and mental diseases.
a2. Describe recent advances of the spectrum of health including mental health.
a3. List risk factors relevant to selected mental diseases.

**b) Intellectual Skills**

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

b1. Collect data from different sources and interpret data to diagnose prevalent mental health problems in the community.
b2. Conduct research studies that adds to knowledge in the area of mental health

**c) Professional and Practical Skills:**

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

c1. Evaluate different methods of diagnosis and management of prevalent mental health problems.

**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 in the area of mental health.

### 3. Contents

| Topic | No. of hours | Lecture | Tutorial/ Practical |
|---|---|---|---|
| Mental Health: Concept and terminology | 9 | 9 | |
| Public health importance | 9 | 9 | |
| Preventable mental ds | 9 | 9 | |
| Risks for abnormal Mental Health | 9 | 9 | |
| Managements | 9 | 9 | |
| **Total** | **45** | **45** | |
| **Credit hours** | **3** | **3** | |

### 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:<br>-Short essay: 40%<br>-structured questions: 25%<br>-MCQs: 20%<br>-Commentary, Problem solving: 15% | - Knowledge<br>- Knowledge<br>- Knowledge, intellectual skills<br>- Intellectual skills, General transferable skills, |
| 5.3-Structured Oral Exam | - Iintellectual skills, Knowledge, General transferable skills |
| 5.4Computer 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 written examination | 50% |
|---|---|
| Structured Oral Exam | 50% |
| **Total** | **100 %** |

**Any formative only assessments:**

### 6. List of References

66.1- Essential Books (Text Books)

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/Fouad Metry Atya

**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 MD degree in Health laws and research ethics in public health and community medicine

**Sohag university**                                     **Faculty of Medicine**

1. Program on which the course is given: MD 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

**Title:** Course Specifications of MD degree in Health laws and research ethics in Public health and community medicine

**Code: COM 0506-300**

**Total hours**

| Title | lecture | practical | Total | credit |
|---|---|---|---|---|
| Health laws and research ethics | 45 | --- | 45 | 3 |

## B. Professional Information

### 1. Overall Aims of Course

The aim of this course is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide 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.

### 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. Mention the recent advances in health laws.
a2. Mention the fundamentals of ethics and legal aspects of research in the field of public health and community medicine.

**b) Intellectual Skills**
By the end of the course, the student is expected to be allowed to:
b1. Manage Scientific discussion based on understanding different health laws

**c) Professional and Practical Skills:**
By the end of the course, the student is expected to practice the following:
c1. Evaluate and understand laws existing in the area of public health and community medicine

**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 about health laws and their implementation.

### 3. Contents

| Topic | No. of hours | Lecture | Tutorial/ Practical |
|---|---|---|---|
| Health systems | 7 | 7 | |
| Health system in Egypt | 8 | 8 | |
| Health laws in Egypt | 8 | 8 | |
| Laws for health insurance | 8 | 8 | |
| Laws for Family Med. In MOH | 7 | 7 | |
| Laws for Environmental protection | 7 | 7 | |
| Total | 45 | 45 | |
| Credit hours | 3 | 3 | |

### 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: <br> -Short essay: 40% <br> -structured questions: 25% <br> -MCQs: 20% <br> -Commentary, Problem solving: 15% | - Knowledge <br> - Knowledge <br> - Knowledge, intellectual skills <br> - Intellectual skills, General transferable skills, |
| 5.3-Structured Oral Exam | - Intellectual skills, Knowledge, General transferable skills |
| 5.4Computer 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 written examination | 50% |
|---|---|
| Structured Oral Exam | 50% |
| Total | 100     % |

### Any formative only assessments:

### 6. List of References

6.1- Essential Books (Text Books)

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/Fouad Metry Atya

**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 Public health and community in MD degree in public health and community medicine

**Sohag university**                                    **Faculty of Medicine**

1. Program on which the course is given: MD 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

**Title:** Course Specifications of public health and community in MD degree in public health and community medicine

**Code: COM 0506-300**

**Total hours**

| module | Lecture | Practical | Total | credit |
|---|---|---|---|---|
| Clinical Epidemiology | 60 | 120 | 180 | 8 |
| Occupational Health | 60 | 120 | 180 | 8 |
| Epidemiology of communicable and non communicable diseases | 60 | 120 | 180 | 8 |
| Advanced course in specialty | 30 | 90 | 120 | 5 |
| Primary Health | 60 | 60 | ١٢٠ | 6 |
| Health of vulnerable groups | 60 | 60 | ١٢٠ | 6 |
| Nutrition | 30 | ---- | ٣٠ | 2 |
| Family medicine | 30 | 120 | ١٥٠ | 6 |
| Geriatrics | 30 | 60 | 90 | 4 |

## B. Professional Information

## 1. Overall Aims of Course

The aim of this course is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide 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)

### Clinical Epidemiology module

**a) Knowledge and understanding:**

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

- a1. Define the recent advances of the epidemiologic approaches to measure the occurrence of disease in communities
- a2. Describe the recent advances of determinants of Epidemiology.
- a3. Mention the recent advances of the principles and fundamentals of ethics and legal aspects of professional practice in the epidemiology.
- a4. Build a model explaining the epidemiological background of human diseases.

**b) Intellectual Skills**

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

- b1. Collect epidemiological data from different sources and interpret data to diagnose prevalent health problems in the community, using various epidemiological strategies and use it for titration and conclusion.
- b2. Select the appropriate diagnostic tools to reach a final solving of the prevalent epidemiological problems in the community.
- b3. Conduct research studies that adds to knowledge in the area of epidemiology
- b4. Formulate scientific papers in the area of epidemiology.
- b5. Identify epidemiological problems and find solutions.
- b6. Innovate and create nontraditional solutions to prevalent epidemiological problems.
- b7. Criticize researches related to epidemiology.

**c) Professional and Practical Skills:**

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

- c1. Master the basic and modern professional skills in the area of epidemiology.
- c2. Write and evaluate of medical reports about epidemiological problems.
- c3. Evaluate and develop methods and tools existing in the area of clinical epidemiology.
- c4. Evaluate different methods of diagnosis and management of prevalent epidemiological problems in the community.
- c5. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent epidemiological problems and training junior staff.
- c6. Design new methods, tools and ways of professional practice in the area of clinical epidemiology.

**d) General and Transferable Skills:**

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

- d1. Present reports about epidemiological problems in seminars effectively
- d2. Use appropriate computer program packages in analysis and interpretation of epidemiological data.
- d3. Use of different sources for information and knowledge to help in Diagnosis and solving of prevalent epidemiological problems.

## Occupational Health module

**a) Knowledge and understanding:**

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

- a1. Identify various occupational Hazards, common occupational health problems in the community.
- a2. Identify compensable occupational health diseases.
- a3. Describe the recent advances of methods of occupational protection and prevention of occupational diseases.

**b) Intellectual Skills**

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

b1. Collect and verify data from different sources and interpret data to diagnose occupational Health problems in the community, using various epidemiological strategies and use it for titration and conclusion.

b2. Conduct research studies that adds to knowledge in the area of occupational health

b3. Assess risk in professional practices in the field of occupational Health.

b4. Plan to improve performance in the field of occupational Health

b5. Criticize researches related to occupational Health.

**c) Professional and Practical Skills:**

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

c1. Master the basic and modern professional skills in the area ofoccupational health.

c1. Write and evaluate of medical reports related to occupational Health

c2. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of occupational health problems and training junior staff

c3. Design new methods, tools and ways of professional practice in the area of occupational health

**d) General and Transferable Skills:**

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

d1. Present reports related to occupational problems in seminars effectively

d2. Teach others and evaluate their performance in the area of occupational health.

d3. Use of different sources for information and knowledge to help in Diagnosis and solving of prevalent occupational health problems.

**Epidemiology of communicable and non communicable diseases module**

**a) Knowledge and understanding:**

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

a1. Describe the recent advances the spectrum of communicable diseases

a2. Describe the recent advances of determinants of health on the individual, the family, and the community levels.

a3. Describe the recent advances in public health surveillance system and its use in the community setting.

a4. Explain the recent advances of different methods for prevention and control.

a5. Define the recent advances of methods of prevention and control for each of communicable diseases

a6. List risk factors relevant to selected non-communicable diseases.

**b) Intellectual Skills**

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

b1. Collect and verify data from different sources and interpret data to diagnose prevalent communicable and non communicable diseases in the community, using various epidemiological strategies and use it for titration and conclusion

b2. Select the appropriate diagnostic tools to reach a final solving of the prevalent communicable and non communicable health problems in the community.

b3. Conduct research studies that adds to knowledge to help in detection, control and prevention of communicable and non communicable health problems in the community.

b4. Formulate scientific papers about researches of communicable and non communicable diseases.

b5. Plan to improve performance in the field of prevention and control of communicable and non communicable diseases.

**c) Professional and Practical Skills:**

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

c1. Master the recent advances of professional skills to help in detection, control and prevention of prevalent communicable and non communicable diseases.

c2. Write and evaluate of medical reports about communicable and non communicable diseases.

c3. Evaluate and develop methods and tools helping in prevention and control of communicable and non communicable diseases.

c4. Evaluate different methods of diagnosis and management of communicable and non communicable problems.

c5. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent communicable and non communicable problems and training junior staff.

**d) General and Transferable Skills:**

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

d1. Present reports about communicable and non communicable diseases in seminars effectively

d2. Use appropriate computer program packages to analyze data about communicable and non communicable diseases.

d3. Use of different sources for information and knowledge to identify the recent advances of communicable and non communicable diseases.

## Advanced course in specialty module

**a) Knowledge and understanding:**

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

a1. Describe the recent advances in the specialty branch

a2. Explain the detailed recent advances of different methods for prevention and control of diseases related to the specialty for example occupational health, nutrition, maternal and child health care ex….

a3. List risk factors relevant to selected diseases related to the specialty branch.

**b) Intellectual Skills**

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

b1. Collect and verify data from different sources and interpret data to diagnose prevalent problems or diseases related to the specialty using various epidemiological strategies and use it for titration and conclusion

b2. Select the appropriate diagnostic tools to reach a final solving of the prevalent problems or diseases related to the specialty in the community.

b3. Conduct research studies that adds to knowledge to help in detection, control and prevention of prevalent problems or diseases related to the specialty in the community.

b4. Formulate scientific papers about researches of prevalent problems or diseases related to the specialty .

b5. Plan to improve performance in the field of prevention and control of prevalent problems or diseases related to the specialty

**c) Professional and Practical Skills:**

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

c1. Master the recent advances of professional skills to help in detection, control and prevention of prevalent problems or diseases related to the specialty.

c2. Write and evaluate of medical reports about prevalent problems or diseases related to the specialty

c3. Evaluate and develop methods and tools helping in prevention and control of prevalent problems or diseases related to the specialty

c4. Evaluate different methods of diagnosis and management prevalent problems or diseases related to the specialty

c5. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent communicable and non communicable problems and training junior staff.

**d) General and Transferable Skills:**

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

d1. Present reports about prevalent problems or diseases related to the specialty in seminars effectively

d2. Use appropriate computer program packages to analyze data about of prevalent problems or diseases related to the specialty .

d3. Use of different sources for information and knowledge to identify the recent advances of the specialty .

## Primary Health Care module

### a) Knowledge and understanding:

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

a1. Define recent advances of patterns of care as preventive and curative, and describe the levels of preventive care.

a2. Describe elements, component, principles, strategies and Instruments of Primary Health care.

a3. Explain Indicators of Primary Health care.

a4. Identify the Impact of Health sector reform on primary health care services and facilities

a5. Identify quality of services in primary health care facilities.

### b) Intellectual Skills

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

b1. Collect and verify data from different sources and interpret data to diagnose problems related to primary health care.

b2. Select the appropriate diagnostic tools to reach a final solving of the problems in primary health care facilities

b3. Conduct research studies that adds to knowledge in the area of primary health care

b4. Assess risk in professional practices in the field of primary health care.

b5. Plan to improve performance in the field of primary Health care.

b6. Criticize researches related to primary Health care.

### c) Professional and Practical Skills:

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

c1. Master the basic and modern professional skills in the area ofprimary health care.

c2. Write and evaluate of reports about quality of primary health care services.

c3. Evaluate and develop methods and tools existing in the area of primary health care.

c4. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of problems of primary health care services

### 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 Identify the recent advances of primary health care.

## Health of vulnerable groups module

### a) Knowledge and understanding:

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

a1. Identify the Vulnerable groups in the community.

a2. Describe the health needs for vulnerable group children and women in child bearing period.

a3. Describe the recent advances of the principle of school health.

### b) Intellectual Skills

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

b1. Collect and verify data from different sources and interpret data to diagnose health problems among vulnerable groups the community, using various epidemiological strategies and use it for titration and conclusion.

b2. Select the appropriate diagnostic tools to reach a final solving of the prevalent health problems among vulnerable groups in the community

b3. Conduct research studies that adds to knowledge in the area of vulnerable groups health needs.

b4. Formulate scientific papers in the area of vulnerable groups health needs

b5. Plan to improve performance in Facilities providing vulnerable groups Health services
b6. Identify vulnerable groups health problems and find solutions
b7. Innovate and create nontraditional solutions to common vulnerable groups health problems

c) **Professional and Practical Skills:**
By the end of the course, the student is expected to be able to:
c1. Master the basic and modern professional skills in the area of vulnerable groups Health.
c2. Evaluate and develop methods and tools serving in diagnosis and solving of vulnerable groups health problems.
c3. Evaluate different methods of diagnosis and management of prevalent vulnerable group Health problems.
c4. Design new methods, tools and ways of professional practice in facilites serving vulnerable groups.

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 Identify the recent advances in the area of vulnerable groups Health.

## Nutrition module

a) **Knowledge and understanding:**
By the end of the course, the student is expected to be able to:
a1. Identify nutritional requirements especially in diseases situation(Therapeutic nutrition).
a2. Describe the recent advances of sources of important nutrients.
a3. Illustrate the nutritional status and the recent advances of prevention of malnutrition and the recent advances in nutritional status assessment.
a4. Define Diet modifications in disease situation for different types of diseases.

b) **Intellectual Skills**
By the end of the course, the student is expected to be able to:
b1. Collect and verify data from different sources and interpret data to diagnose prevalent nutritional problems in the community, using various epidemiological strategies and use it for titration and conclusion
b2. Select the recent advances of the appropriate diagnostic tools to reach a final solving of the prevalent nutritional health problems in the community
b3. Conduct research studies that adds to knowledge in the field of nutrition
b4. Formulate scientific papers in the area of nutrition and nutritional assessment.
b5. Plan to improve performance in the field of nutritional assessment.
b6. Identify nutritional health problems and the recent advances of available solutions .
b7. Have the ability to innovate and create nontraditional solutions to prevalent nutritional health problems
b8. Criticized researches related to nutrition.

c) **Professional and Practical Skills:**
By the end of the course, the student is expected to be able to:
c1. Master the basic and modern professional skills in the area of nutrition.
c2. Write and evaluate of medical reports about nutritional status assessment and nutritional problems.
c3. Evaluate and develop methods and tools existing in the area of nutrition and nutritional assessments
c4. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent nutritional problems and training junior staff

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 of nutritional assessment.

## Family medicine module

a) <u>**Knowledge and understanding:**</u>

By the end of the course, the student is expected to be able to:
a1. Identify principles, components and functions of family medicine and the impact of its implementation.

b) **Intellectual Skills**
By the end of the course, the student is expected to be able to:
b1. Conduct research studies that adds to knowledge in the area of family medicine.
b2. Formulate scientific papers in the area of family medicine.
b3. Plan to improve performance in the field of family medicine
b4. Criticize researches related to family medicine.

c) **Professional and Practical Skills:**
By the end of the course, the student is expected to be able to:
c1. Master the basic and modern professional skills in the area of family medicine
c2. Write and evaluate of reports related to family Medicine.
c3. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent community problems and training junior staff
c4. Design new methods, tools and ways of professional practice in the area of field medicine.

d) **General and Transferable Skills:**
By the end of the course, the student is expected to be able to:
d1. Assess himself and identify his personal learning needs in the field of family medicine.
d2. Use of different sources for information and knowledge to acquire data and skills in the area of family medicine.

**Geriatrics module**
a) **Knowledge and understanding:**
By the end of the course, the student is expected to be able to:
a1. Identify principles of Geriatric Health.
a2. Identify common Health problems among geriatrics and the recent advances of prevention and control of such problems.
a3. Identify different geriatric health care programs
a4. Define the recent advances of life expectancy.

b) **Intellectual Skills**
By the end of the course, the student is expected to be able to:
b1. Collect and verify data from different sources and interpret data to diagnose prevalent geriatrics health problems in the community, using various epidemiological strategies and use it for titration and conclusion.
b2. Select the appropriate diagnostic tools to reach a final solving of the common geriatric health problems health problems in the community
b3. Conduct research studies that adds to knowledge in the area of geriatric health.
b4. Formulate scientific papers in the area of geriatric health.
b5. Identify geriatric health problems and find solutions
b6. Innovate and create nontraditional solutions to prevalent geriatrics health problems in the community

c) **Professional and Practical Skills:**
By the end of the course, the student is expected to be able to:
c1. Master the basic and modern professional skills in the area of geriatrics.
c2. Write and evaluate of medical reports which describe geriatric health problems
c3. Evaluate and develop methods and tools existing in the area of geriatrics.
c4. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent geriatric health problems and training junior staff

d) **General and Transferable Skills:**
By the end of the course, the student is expected to be able to:
d1. Present reports about geriatric health problems in seminars effectively

d2. Use of different sources for the recent advances of information and knowledge in the area of geriatric health.

## 3. **Contents**

**Clinical Epidemiology module:**

| Topic | No. of hours | Lecture | Tutorial/Practical |
|---|---|---|---|
| Types of epidemiology | | 8 | field training (Community convoys). |
| Epidemiologic curves | | 8 | |
| Approaches to clinical Epidemiology | | 8 | |
| Case scenarios | | 9 | |
| Standardized case management | | 9 | |
| Management of cases | | 9 | |
| Recent advances of epidemiological diagnosis | | 9 | |
| Total | 180 | 60 | 120 |
| Credit hours | 8 | 4 | 4 |

**Occupational Health module**

| Topic | No. of hours | Lecture | Tutorial/Practical |
|---|---|---|---|
| Occupational Health Hazards | | 9 | Field training |
| Evaluation of Work risks and injuries | | 9 | |
| Occupational diseases | | 9 | |
| Methods of prevention of occupational diseases | | 9 | |
| Management of Work risks and injuries | | 8 | |
| Occupational health services | | 8 | |
| Percent of infirmity | | 8 | |
| **Total** | **180** | **60** | **120** |
| **Credit hours** | **8** | **4** | **4** |

**Epidemiology of communicable and non communicable diseases module**

| Topic | No. of hours | Lecture | Tutorial/Practical |
|---|---|---|---|
| Recent advances of Prevention and control in the community | | 10 | Field observation & reporting Computer search &/or Field investigation |
| Recent advances of epidemiology of selected communicable diseases | | 10 | |
| Recent advances of risk factors of non-communicable diseases | | 10 | |
| Recent advances of Bioterrorism | | 10 | |
| Recent advances of Disasters Implication | | 10 | |
| Recent advances of pulic health surveillance system | | 10 | |
| **Total** | **180** | **60** | **120** |
| **Credit hours** | **8** | **4** | **4** |

**Advanced course in specialty**

**For example Advanced course in the specialty of administration**.

| Topic | No. of hours | Lecture | Tutorial/ Practical |
|---|---|---|---|
| Recent advances of : Detailed study of Planning: Steps of planning a health program Situation analysis Setting priorities Types of Obstacles and limitations Preparing the action plan Preparing the time table of activities | | 5 | Field observation & reporting Computer search &/or Field investigation |
| Detailed study of Organizing: Departementation Primary departments The concept of authority Facilitating activities Structural arrangements | | 5 | |
| Detailed study of Staffing, Directing | | 2 | |
| Detailed study of Coordinating | | 2 | |
| Detailed study of Budgeting | | 1 | |
| Detailed study of Supervision Detailed study of Styles of supervision Motivation Delegation of authority | | 5 | |
| Detailed study of Evaluation Measuring the resources Measuring efforts Measuring achievements | | 5 | |
| Detailed study of management process Detailed study of Time management Detailed study of Conflict management | | 5 | |
| **Total** | **120** | **30** | **90** |
| **Credit hours** | **5** | **2** | **3** |

**Primary health care module:**

| Topic | No. of hours | Lecture | Tutorial/Practical |
|---|---|---|---|
| Concept, Principles, Strategies of primary health care | | 8 | |
| Elements of primary health care | | 8 | Training in PHC units; rural H. U., H. bureau |
| Indicators of primary health care | | 8 | |
| Quality in primary health care facilities | | 9 | |
| Drawbacks in applicability | | 9 | |
| Rationale for reform | | 9 | |
| | | 9 | |
| **Total** | **120** | **60** | **60** |
| **Credit hours** | **6** | **4** | **2** |

**Health of vulnerable groups module**

| Topic | No. of hours | Lecture | Tutorial/ Practical |
|---|---|---|---|
| Infant and childrenhealth | | 10 | |
| Adolescents health | | 10 | Training in PHC units; rural H. U., H. bureau |
| Health of Pregnant and lactating | | 10 | |
| Rural health | | 10 | |
| Health of Athletics | | 10 | |
| Health of Handicapped | | 10 | |
| **Total** | **120** | **60** | **60** |
| **Credit hours** | **6** | **4** | **2** |

**Nutrition module**

| Topic | No. of hours | Lecture | Tutorial/ Practical |
|---|---|---|---|
| Micronutrients | | 5 | |
| Recent advances of prevention of malnutrition | | 5 | --- |
| Recent advances in assessment of nutritional status of a community | | 5 | |
| Therapeutic nutrition | | 5 | |
| Obesity, recent advances of management | | 5 | |
| Recent advances of food Safety and preservation | | 5 | |
| **Total** | **30** | **30** | **---** |
| **Credit hours** | **2** | **2** | **---** |

**Family medicine module**

| Topic | No. of hours | Lecture | Tutorial/ Practical |
|---|---|---|---|
| Family medicine concept and rationale | | 5 | Training in FH units Gen med., Surgical, Obs/Gyn, Pediatric, ENT, Ophth, radiology. |
| Duties of family medicine physician | | 5 | |
| Aspects of family care | | 5 | |
| Management of family health problems | | 5 | |
| Family medicine services | | 5 | |
| Family welfare | | 5 | |
| **Total** | **150** | **30** | **120** |
| **Credit hours** | **6** | **2** | **4** |

**Geriatrics module**

| Topic | No. of hours | Lecture | Tutorial/ Practical |
|---|---|---|---|
| Aging process; theories, physiology, terminology | | 5 | Training in Geriatric H care clinic |
| Geriatric H problems | | 5 | |
| Risk approach for Geriatric H problems | | 5 | |
| Care and welfare | | 5 | |
| Preventive aspects | | 5 | |
| Geriatric health program | | 3 | |
| Life expectancy | | 2 | |
| **Total** | **90** | **30** | **60** |
| **Credit hours** | **4** | **2** | **2** |

## 4. Teaching and Learning Methods
4.1- Lectures.
4.2- field training (Community convoys).
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- Log book | - General transferable skills |
| 5.3-Written Exam: <br> -Short essay: 40% <br> -structured questions: 25% <br> -MCQs: 20% <br> -Commentary, Problem solving: 15% | - Knowledge <br> - Knowledge <br> - Knowledge, intellectual skills <br> - 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 Structured Oral Exam …..week: 96
Assessment 4……… Attendance and absenteeism throughout the course, Field convoy's participation
Assessment 5 ………… Computer search assignment performance throughout the course

### Weighting of Assessments

Final written examination week: 96 separate exam
Passing in written exam is a condition to attend the following exam
Final Structured Oral Exam week: 96 100%

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

## 6. <u>List of References</u>

<u>6.1- Essential Books (Text Books)</u>

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

<u>6.2- Recommended Books</u>

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.

<u>6.3- Periodicals, Web Sites, …etc</u>

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

3- WWW. CDC and WHO sites

## 7. <u>Facilities Required for Teaching and Learning:</u>

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.

**Course Coordinator:** Dr/Fouad Metry Atya

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

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