COURSE SPECIFICATION
Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Program offering the course:	MD Degree of Public Health & Preventive Medicine
(2) Department offering the program:	Public Health & Community Medicine Department
(3) Department responsible for teaching the course:	Public Health & Community Medicine Department
(4) Part of the program:	**First Part**
(5) Date of approval by the Department`s council	**27/3/2016**
(6) Date of last approval of program specification by Faculty council	
(7) Course title:	Epidemiologic Methods & Biostatistics & Principles of Research Ethics (Advanced level)
(8) Course code:	PHPM 618 EpiSt2
(9) Credit hours	1 hour
(10) Total teaching hours:	15 lectures

(B)   Professional information

(1) Course Aims:

The broad aims of the course are as follows:

Acquisition of advanced knowledge & practical skills in epidemiological methods & biostatistics.

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge & Understanding

A1: Recognize the interface between biostatistics and epidemiology.
A2: Recognize principles of inferential statistics.
A3: Explain concepts of probability, random variation, & commonly used probability distributions.

2- Intellectual activities (I)

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

B- Intellectual skills

B1: Apply concepts and methods from biostatistics and epidemiology disciplines jointly.
B2: Apply basic concepts of probability, random variation, & commonly used probability distributions.
B3**:** Apply and interpret common univariate & multivariate statistical methods for inference.
B4: Apply assumptions & limitations of common statistical tests & choose appropriate tests for analysis
B5: Calculate appropriate sample size in different types of studies.

(3) Course content:

Subjects	Lectures	Clinical	Practical	Field	Total Hours
▪ Overview: epidemiological methods	2				15h lectures
▪ Assessment of screening & diagnostic tests	4				
▪ Inferential statistics	4				
▪ SPSS	1				
▪ Sample size calculation in research	4				

(4) Teaching methods:

1. Lectures   **2. Seminars**   **3. Workshops**   **4.Tutorial**

(5) Assessment methods:

Assessment schedule:
Assessment 1: Written exam at 6 months of registration of MD degree
Assessment 2: MCQ exam the end of the semester

Marks of each Assessment
Written: 80 Marks
MCQ: 20 Marks

(6) References of the course:

1: Hand books: Course notes: books authorized by department
2: Text books:

- Statistics in Medical Research, 4th ed. Blackwell Publishing company, 2003
- Essential Medical Statistics, 2nd ed. Blackwell Publishing company, 2003

3. Journals: Publications of national & international public health organization; EMOHP, WHO, CDC

(7) Facilities & resources mandatory for course completion:

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

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

Course coordinator: Ass. Prof. Bernardit Bernard

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

Date: 27/3/2016