COURSE SPECIFICATION

(Basics of Medical Statistics & Epidemiology in Oncology)

Faculty of Medicine– Mansoura University

(A)Administrative information:

1) Programme offering the course:	Postgraduate Master degree of Medical Oncology
2) Department offering the programme:	Internal Medicine Department
3) Department responsible for teaching the course	Department of Public Health
4) Part of the programme:	First part
5) Date of approval by the Department`s council	2/08/2016
6) Date of last approval of programme specification by Faculty council	9/8/2016
7) Course title:	(Basics of Medical Statistics & Epidemiology In Oncology)
8) Course Code:	MONC 518 MSO-EPO
9) Total teaching hours:	7.5 hours/ 15 weeks

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

1. To enable students to turn a problem described in medical or biological terms into something that can be tackled by a statistical analysis.
2. To develop the student's computer skills so that they handle and analyze large medical databases.

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

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

A- Knowledge and Understanding

A 1 . Discuss clinical epidemiology and medical statistics, resulting in:

a. Improving the ability to conduct clinical studies.
b. Learning the basis of experimental protocols design,
c. Improving data collection, and analysis.
d. Capability of Planning & conduction of clinical trials

B- Intellectual activities

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

B1. Construct a well-designed statistically based appropriate study framework within which to critically investigate a selected relevant topic in depth.

B2. Judge professional practice, through critical evaluation the theories and concepts presented within the evidence base and critical reflection on and others clinical practice.

B3. Analyze valid and reliable statistical tools to critically evaluate the effectiveness and efficiency of approaches to disease and patient management within oncology.

(3) Course content:

Subjects	Lecture	Clinical	Laboratory	Field	Total Teaching Hours
(1) Medical Statistics -Basics	1h				1h
(2) Planning & conduction of clinical trials	1h				1h
(3) Design and conduction of phase I trials (4) Design and conduction of phase II trials: I-Clinical aspects 2-Statistical aspects (5) Design and conduction of phase III trials: Randomization Required size	2h				2h
(6)Analysis of phase III trials: -Survival curves -Comparison of survival curves -Interim analysis -Use of regression models	1h				1h
(7) Epidemiology of Cancer	2h				2h

(4)-Teaching methods:

4.1: Power point presentation.

(5)-Assessment methods:

5.1: Written exam for assessment of A1 , B1-3,

5.2: Structured Oral exam for assessment of A1, B1-3,

5.3: MCQ exam for assessment of A1, B1-3

Assessment schedule:

Assessment 1: Final exam week/month 24th week

Percentage of each Assessment to the total mark:

Written exam: 72 marks 48% of total pharmacology exam.

Oral exam: 60 mark 40% of total pharmacology exam.

MCQ exam: 18 marks 12% of total pharmacology exam

Pharmacology exam represent 16.7 % of total marks of the first part.

(6)-References of the course:

6.1: Cancer Clinical Trials, Methods and Practice, Mark E Buyse, Oxford Medical publications.

6.2: Cancer Principles & practice of Oncology, Vincent DeVita

(7)-Facilities and resources mandatory for course completion:

- Lectures Halls.
- Data show.

Course coordinator:

Prof. Sameh Shamaa

Prof. Tawfik Elkhodary

Dr. Ziad Emarah

Head of the department:

Prof. Salah El-Gamal

Date of First Approval: 22/12/2010

Date of Last Approval: 23/08/2016