COURSE SPECIFICATION

Elective course

(Molecular biology related to oncology)

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate Master degree of Clinical Oncology and Nuclear Medicine/ CONM517
(2) Department offering the programme:	Clinical oncology and nuclear medicine department
(3) Department responsible for teaching the course:	Clinical oncology and nuclear medicine department
(4) Part of the programme:	second part
(5) Date of approval by the Department`s council	**7/6/2016**
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title:	**Molecular biology related to oncology**
(8) Course code:	CONM517MB
(9) Total teaching hours:	30 hours

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows: (either to be written in items or as a paragraph)

1- Educate the basic principles of Molecular biology .

2-teach the candidate cell cycle, cell invasion and metastasis.

3-give cadidate the ability to apply molecular therapy in treatment of cancer.

(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

A1: Discus Molecular basis of cell death and Cell survival - in vitro and in vivo

A٢:Define behavior of tumor cells.

A3:Descripe molecular therapy use in treatment of cancer .

A4:discuss cell cycle and apoptosis

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

B- Intellectual skills

B١: predict behavior of the growth, control of growth , and metastasis of malignant cells.

B2estimate cancer cell death (apoptosis)

B3: apply molecular therapy in the treatment

B4:differentiate different stages of cell cycle.

(3) Course content:

Subjects	Lectures	Clinical	Laboy	Field	Total Teaching Hours
*** Molecular biology related to oncology** --basic principles -genomic and cancer -cytogenesis -cell cycle -apoptosis -invasion&metastasis -molecular therapy	 5 4 4 4 4 5 4				

(4) Teaching methods:

4.1: lectures.

(5) Assessment methods:

5.1: written exam for assessment of Knowledge and understanding.
MCq continuous assessment for assessment of knowledge , intellectual ILOs

Assessment schedule:

Assessment 1: written exam held after 36 months of admission to job or 30 months of registration to the MS degree.
Assessment 2: Oral exam held after 36 months of admission to job or 30 months of registration to the MS degree.
Assessment 3: MCQ exam held at the end of 2nd, 3rd, 4th semester.

Percentage of each Assessment to the total mark:
Written exam:80 marks
Oral exam: 50 marks.
MCQ (as continuous assessment): 20 marks

References of the course:

6.2: Text books:

- **PerezCA, Brady LW,HalperinEC,etal.,**editors.*Principles and Practice of RadiationOncology*. 5th ed. Philadelphia:Lippincott

Williams&Wilkinns; 2008.

- **Hansen EK and Roach M.**: *Handbook of Evidence-based Radiation Oncology*.1st edition. New York: springer science+ business media, LLC; 2007.
- **Casciato DA,** editor. *Manual of clinical oncology*.6th edition. Philadelphia: Lippincott Williams&Wilkins; 2009.
- **DeVita VT, Hellman S, Rosenberg SA,** editors**.** *Principles and Practice of Oncology*.8th ed. Philadelphia: Lippincott; 2008.

(6) Facilities and resources mandatory for course completion:

Candidates and their learning are supported in a number of ways:
□Candidates logbook
□ Programme Specification
□Extensive library and other learning resources
□Computer laboratories with a wide range of software
□Intranet with a wide range of learning support material
□MSc/MD Dissertation Supervisor

Course coordinator:

Prof.d: Soumaya Eteiba

Assistant prof: Rasha Abdel Latif

Head of the department:

Prof.d: Ibrahim Awad

Date:

P.S. This specification must be done for each course.