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	**6/5/2020**
(6) Date of last approval of programme specification by Faculty council	**20/9/2020**
(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

A2: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

B1: 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
4.2, interactive teaching

(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 2^{nd}, 3^{rd}, 4^{th} 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:

- Perez CA, Brady LW,Halperin EC,et al.,editors**.** *Principles and Practice of RadiationOncology.7th edition.* Wolters Kluwer, 2018

- Zhong, Jim. "Book Review: Handbook of Evidence-Based Radiation Oncology." (2019).
- Chmielowski, Bartosz, and Mary Territo. *Manual of clinical oncology*. Lippincott Williams & Wilkins, 2017.
- DeVita, Hellman, and T. S. Lawrence. "Rosenberg's. Cancer Principles & Practice of Oncology [Internet]." (2019)

(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

Programme Coordinator:
Prof Dr Somaya Eteba
Prof Dr: Rasha Abdellatif
Head of Department : Prof Dr Magda Allam

Date:
6/5/2020

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

We certify that all information required to deliver this programme is contained in the above specification and will be implemented. All course specification for this programme are in place.	
Programme coordinators: Prof Dr Somaya Eteba Prof Dr Rasha Abdellatif **Dean:** Prof Dr Nesreen Salah Omar	**Signature & date:** **Signature & date:**
Executive director of the quality assurance unit: Prof Dr Nesreen Shalaby	**Signature & date:**