



## COURSE SPECIFICATION

(Cancer Genetics)

Faculty of Medicine- Mansoura University

### (A) Administrative information

(1) Programme offering the course.	Postgraduate Doctorate degree of Medical Oncology
(2) Department offering the programme.	Internal Medicine Department
(3) Department responsible for teaching the course.	Medical Oncology Unit
(4) Part of the programme.	2 <sup>nd</sup> part
(5) Date of approval by the Department's council	2/8/2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title.	Cancer Genetics
(8) Course code.	MONC 610 CG
(9) Total teaching hours.	30 hours/15 Weeks

## **(B) Professional information**

### **1) Course Aim.**

The broad aim of the course are as follows.

To help the student to be a qualified oncologist who has the ability to learn the basics of cancer etiology based on Genetics.

### **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. Discuss Etiology of cancer & Mechanism of genome destabilization in human tumors.
- A2. List all the cancer susceptibility syndromes

#### **B- Intellectual skills**

- B1. Relate basics of genetics with cancer types.
- B2. Asses the possibility of genetic targeting therapy based on genetic testing
- B3. Design a screening & treatment plan based on genetic testing
- B4. Evaluate the value of different genetic testing.

### 3) Course content.

Subjects	Lectures	Clinical	Laboratory	Seminars	Total Teaching Hours
1) DNA Damage Response Pathways and Cancer	4h				4h
2) Hereditary Cancer Predisposition Syndromes	8h				8h
3) Genetic and Epigenetic Alterations in Cancer	6h				6h
4) Genetic testing	4h				4h
5) Serum proteomics	4h				4h
6) Telomeres and telomerases	4h				4h

### 4) Teaching methods.

#### 4.1 Power point presentation

### 5) Assessment methods.

5.1. Written exam for assessment of A1-2 , B1-4,

5.2. MCQ exam for assessment of A1-2 , B1-4,

Percentage of each Assessment to the total mark.

Written exam: 80 marks                      80% of total exam.

MCQ exam 20 marks                      20% of total exam.

**6) References of the course.**

- 6.2 Text books:** – Manual of Clinical Oncology seventh edition (Dennis A.Casciato)  
– Abeloff's Clinical Oncology, 5th Edition (Johj E. Niederhuber)

**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

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