



COURSE SPECIFICATION

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course.	Cancer biology and immunology
(2) Department offering the programme.	General surgery
(3) Department responsible for teaching the course.	General surgery
(4) Part of the programme.	First part MD Surgical Oncology
(5) External evaluator(s)	Prof. Dr. Gamal Emera, National cancer institute, Cairo university
(6) Date of approval by the Department`s council	8 / 8 /2016
(7) Date of last approval of programme specification by Faculty council	9/8/2016
(8) Course title.	Cancer biology and immunology
(9) Course code.	SONC 620 EB
(10) Credit hours.	1 hour theoretical

(11) Total teaching hours	15 hour theoretical
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(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

1- To prepare our candidates to acquire knowledge in different branches of Cancer Biology and Immunology.

2- To give our candidate the ability to integrate the Cancer Biology data properly in service of oncology.

Within the overall aim, the objectives of the Programme are as follows.

1. Teaching the basics of Cancer Biology and Immunology.
2. Teaching the main topics of Cancer Biology and Immunology with different implications in the process of carcinogenesis and effects on cancer treatments.

(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- Define cell cycle and recognize how cell proliferation occurs.

A2- Discuss steps of carcinogenesis.

A3- Recognize oncogenes and tumor suppressor genes, and know their role in carcinogenesis.

A4- Understand cancer angiogenesis and how it occurs.

A5- Discuss how cancer metastases occur and know their different theories.

A6- State different biological therapies used in cancer treatment, and the rationale for their use.

A7- List different cytokines, currently in use, in cancer treatment.

A8- Understand stem cell biology as a new hope for cancer management.

B- Intellectual skills

B1- Distinguish biology and nature of different cancers.

B2- Apply cancer biology knowledge in choice of cancer therapy.

(2) Course content:

Title	Teaching hours
Cell cycle and proliferation control	2 hours
Steps of carcinogenesis	2 hours
Oncogenes Tumor suppressor genes	2 hours
Cancer angiogenesis	2 hours
Cancer metastasis	2 hours
Biological therapy for cancer	2 hours
Cytokines and their clinical importance	2 hours
Stem cell biology and its clinical applications	1 hour

(3) Teaching methods:

Lectures

(4) Assessment methods:

Written and MCQ exam for assessment of knowledge & intellectual skills.

Percentage of each assessment to the total mark.

Written exam: 40 marks represent 80% of the total marks

MCQ exam: 10 marks represent 20% of the total marks

Other assessment without marks: logbook

(5) References of the course:

5.1: Hand books: Department Cancer Biology and Immunology lecture notes.

5.2: Text books: Introduction to cancer Biology.

5.3: Journals: Seminars in cancer biology.

5.4: Websites: www.cancer.gov

5.5: Others.

(6) Facilities and resources mandatory for course completion:

Lecture halls

(7) Evaluation of Programme's intended learning outcomes (ILOs):

Evaluator	Tools*	Signature
Internal evaluator (s) Prof. Dr. Nazem Shams Prof. Dr. Adel Denewer Prof. Dr. Sherif Zaki Kotb Prof. Dr. Ahmed Seteet Prof. Dr. Mohamed Hegazy	Focus group discussion Meetings	
External Evaluator (s) Prof. Dr. Gamal Emiera, National cancer institute, Cairo university	Reviewing according to external evaluator checklist report.	

Senior student (s)	none	
Alumni	none	
Stakeholder (s)	none	
Others	none	

* TOOLS= QUESTIONNAIRE, INTERVIEW, WORKSHOP, COMMUNICATION, E_MAIL

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 is in place.	
Head of the department. Prof. Dr. Nazem Shams Professor of General Surgery, Mansoura University	Signature & date:
Dean. Prof.Dr. Elsaid Mohamed Abdelhady	Signature & date:
Executive director of the quality assurance unit. Prof.Dr. Seham Gad El-Hak	Signature & date: