COURSE SPECIFICATION

(Radiotherapy Technology in Hematology–HEM 617 RT)

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate Doctorate Degree of Clinical Hematology/HEMA 600
(2) Department offering the programme:	Internal Medicine Department
(3) Department responsible for teaching the course:	Hematology Unit and Radiotherapy and Nuclear Medicine Department.
(4) Part of the programme:	First part
(5) Date of approval by the Department`s council:	26/04/2016
(6) Date of last approval of programme specification by Faculty council:	9/08/2016
(7) Course title:	Radiodiagnosis Technology in Hematology
(8) Course code:	HEM 617 RT
(9) Credit hours	1 hour
(10) Total teaching hours:	15 hours

(B) Professional information

(1) Course Aims:

The radiotherapy technology course aims to provide the MD candidate with working knowledge, practical skills and competencies in radiation biology and radiotherapy as a management of hematological diseases.

(2) Intended Learning Outcomes (ILOs):

A- Knowledge and Understanding:

A1: To identify the principles and application of radiation medicine to hematopoietic and lymphopoietic malignancies via demonstrating the following:

A1a: a working knowledge and understanding of the basic principles of radiation biology.

A1b: practical knowledge of the basic approaches of administering radiation therapy, including the different radiation source types (e.g. electron beam, external beam, brachytherapy)

A1c: the short-term toxicities and the potential long-term consequences of radiation therapy (e.g. secondary malignancies, coronary artery disease).

A1d: the interactions of radiation therapy with medications, including antineoplastic pharmacologic agents.

(3) Course Contents (1 credit hours/15 teaching hours/theoretical):

Subjects	Lectures	Total Teaching Hours
Biological aspects of Radiation Oncology	2	
Factors affecting the response of Tumors to Radiation	2	
Tumor oxygenation	2	
Hypoxia cell sensitizers and cytotoxins	2	
Role of hypoxia imaging in clinical Oncology	2	
Radiation physics	2	
Treatment planning	1.5	
Clinical application of Radiation therapy	1.5	
	1 credit hour/15 teaching hours	

(4) Teaching methods:

4.1: Power Point presentation.

4.2: Laboratory work.

(5) Assessment methods:

5.1: Written exam and MCQ for assessment of knowledge

Assessment schedule:

Final exam 25th week

Percentage of each Assessment to the total mark:

Written exam: 80 marks

MCQ: 20 marks

(6) References of the course:

Text books:

Hollan-Frei Cancer Medicine and DeVita Cancer Principles and Practice of Oncology

(7) Facilities and resources mandatory for course completion:

-Lecture Hall.

-Data show.

-Equipped Laboratory.

Course coordinator: Dr Mona Taalab

Head of Hematology Unit: Prof Mohamed Nasr Mabed

Head of the Internal Medicine Department: Prof. Dr. Salah Al-Gamal

Date of First Approval: 22/12/2010

Date of Last Approval: 26/04/2016