COURSE SPECIFICATION

(Clinical 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:	**Clinical Oncology**
(8) Course code:	CONM517CO
(9) Credit hours	7 lectures 10 clinical
(10) Total teaching hours:	105 hours lectures 300practical

(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 candidates Principles of cancer management and decision making for treatment policy (surgery, radiotherapy, hormonal therapy and chemotherapy).

2-Teach the plan of treatment for each patient according to the site and stage of disease.

3-Educate them the disorders related to cancer (psychological, rehabilitation, paraneoplastic,……)

4-Prepare them to use anticancer agents and how to deal with side effects of treatment.

(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

The trainee should: know and understand:

A1: describe the principles of cancer management and decision making for treatment policy (surgery, radiotherapy, hormonal, and chemotherapy) of different body organs.

A2: Explain the toxicity profile of each line of tratment, including long-term hazards, how to adapt the dose and treatment schedule according to the individual patient in case of organ dysfunction, and how to handle these complications.

A3: Identify and treate paraneoplastic syndromes and oncologic emergency.

A4:Explain cancer of uknown origin and cancer in AIDS patients.

A5:Describe treatment of metastatic diseases.

A6: illusterate supportive care in cancer patients

A7:explain psychological aspects of cancer patients

A8: recognize rehabilitation in cancer patients

B- Intellectual skills

B1: Distinguish the indications, contraindications of radiotherapy and systemic therapy(chemotherapy, hormone therapy, biological agents) in order to plan and prescribe appropriate treatment for common malignancies.

B2:distinguish potential complications of different lines of treatment and how to treate.

B3: Evaluate the management of complications of disease processes

B4:analyse metastatic disase and cancer of unknown primary

B5:evaluate paraneoblastic diseases and deal with

B6:interpret psychological aspects and rehabilitation in cancer patients.

C- Professional/practical skills

C1: Apply treatment ofcancer in different body organs

C2:Evaluate prescription and administration of different lines of treatmen

C3:develop skills in handeling of side effects of treatments

C4: Apply issues of supportive care of cancer patients .

C5: Be able to deal with psychological aspects and rehabilitation of cancer patients.

C6:Assess oncologic emergencies, cancer in AIDS.

D– Communication & Transferable skills

: Trainees must be able to.

D1: Trainees must be able to take an accurate and reliable history.

D2:Explain disease processes and treatment details honestly in language appropriate to patients and their families.

D3- Communicate clearly and efficiently both orally and in writing with medical colleagues in other disciplines.

D4-Maintain accurate records of consultations and other interactions with patients and their families.

D5: Trainees must Take part in discussions in multi-disciplinary meetings.

D6: Trainees should Assess and advise patients attending for follow-up after completion of treatment and advise on appropriate investigations during and after follow-up.

(3) Course content: 105 hours lectures

Modules	Subjects	Lectures
Module-1	***Principles of cancer management and decision making for treatment policy: surgery, radiotherapy, hormonal therapy and chemotherapy.**	2
	*** Multidisciplinary approach of treatment.**	1
	***Cancer of the head and neck** **- nasal cavity,** **- paranasal sinuses,** **- nasopharnyx,** **-oral cavity,** **-oropharnyx,** **- larynx,** **- hypopharnyx** **-and salivary glands.**	 1 1 1 1 1 1 1 1
	***Cancer of the lung** **-Small cell** **-Non small cell** **-Carcinoid** **-Large cell neuroendocrine carcinoma**	 1.5 1.5 1 1

	***mediastinum** **-Thymic tumors** **-Germ cell tumors** **-Mesenchymal tumors** **-Neurogenic tumors** **-Primary cardiac malignancies** **-pleura.**	 1 1 1 1 1 1
	***Gynecologic tumors :** **- vulva** **-vagina** **-cervix** **-endometrium** **-fallopian tubes** **-gestational trophoblastic disease** **-ovary**	 1 1 1.5 1.5 1 1 1
	***Cancer of the breast.** **-Early breast cancer** **-Locally advanced breast cancer** **-metastatic breast cancer**	 2 2 2
Module-2	*** Cancer of the genitourinary system** **- kidney** **-ureter** **-bladder** **- prostate** **-urethra** **-penis** **-testis**	 1 1 1.5 1.5 1 1 1

	***Cancer of the GIT:** **- esophagus** **-stomach** **- pancreas** **- hepatobiliary** **- small intestine** **-colon** **-rectal** **-anal region**	 1 1 1 1 1 1 1.5 1
	***Non-melanomatous skin cancer** ***melanomas**	1.5 1
	***Cancer of the endocrine system:** **-thyroid** **-parathyroid** **- adrenals** **-pancreas** **-carcinoid**	 1.5 1 1 1 1
	*** Neoplasms of the central nervous System:** -Low grade gliomas -High grade gliomas -Meningiomas -Ependymoma -Medulloblastoma -Pituitary -Spinal cord -Orbital, ocular&optic nerve tumors	 1.5 1.5 1 1 1 1 1.5 1
Module-3	*** Solid tumours of childhood.** **-Neuroblastoma** **-Wilm**	 1 1

	-Retinoblastoma **-Pediatric bone tumors** **Rhabdomyosarcoma** **-liver tumors** **-Germ cell tumors**	1 1 1 1 1
	***Cancer in Aids and other immunodeficiency status**	1
	***Soft tissue sarcomas**	2
	***Bone sarcomas**. -Osteosarcoma -Giant cell tumors -Ewing sarcoma -Chondrosarcoma	 1 1 1 1
	***Leukemias** ***lymphomas** ***plasma cell neoplasms.**	2 2 1
	***Paraneoplastic syndromes and** *** oncologic emergencies**	1 2
	***Cancer of unknown primary site**	2
	***Principles of chemotherapy: chemotherapy objectives, side effects and complication chemotherapy**	1
	***Principles of applications of biologic therapy**	1
	***Adverse effects of treatment**	1
	***Treatment of metastatic cancer.** -Brain mets	 1

	-Lung mets -Liver mets -Bone mets	1 1 1
	***Supportive care in cancer patient.**	1
	***Administration of cancer treatment**	1
	*** Psychological aspects of patients with cancer**	1
	***Rehabilitation of cancer patients.**	1

Table of clinical teaching (300 hours practical)

Clinical skill	Teaching hours
• Management of: ***Cancer of the head and neck**	
- nasal cavity,	3
- paranasal sinuses,	3
- nasopharnyx,	4
-oral cavity,	3
-oropharnyx,	3

- larynx,	4
- hypopharnyx	4
-salivary glands.	3
Cancer lung	
-Small cell lung	4
-Non small cell lung	4
-Carcinoid	3
-Large cell neuroendocrine carcinoma	3
***mediastinum**	
-Thymic tumors	3
-Germ cell tumors	3
-Mesenchymal tumors	3
-Neurogenic tumors	3
-Primary cardiac malignancies	3
-pleura.	3
***Gynecologic tumors :**	
- vulva	3
-vagina	3
-cervix	4
-endometrium	4
-fallopian tubes	3
-gestational trophoblastic disease	3
-ovary	3
***Cancer of the breast.**	
-Early breast cancer	5
-Locally advanced breast cancer	5
-metastatic breast cancer	5
*** Cancer of the genitourinary system**	

	3
- kidney	3
-ureter	4
-bladder	5
- prostate	3
-urethra	3
-penis	3
-testis	
***Cancer of the GIT:** **- esophagus**	4
-stomach	4
- pancreas	3
- hepatobiliary	3
- small intestine	3
-colon	4
-rectal	3
-anal region	3
***Non-melanomatous skin cancer**	3
***melanomas**	4
***Cancer of the endocrine system:**	
-thyroid	4
-parathyroid	4
- adrenals	3
-pancreas	3
-carcinoid	3
*** Neoplasms of the central nervous System:**	
-Low grade gliomas	4
-High grade gliomas	3
-Meningiomas	4
-Ependymoma	4

-Medulloblastoma -Pituitary -Spinal cord -Orbital, ocular&optic nerve tumors *** Solid tumours of childhood.** **-Neuroblastoma** **-Wilm** **-Retinoblastoma** **-Pediatric bone tumors** **Rhabdomyosarcoma** **-liver tumors** **-Germ cell tumors**	4 4 3 3 3 3 4 3 3 3 3
***Cancer in Aids and other immunodeficiency status**	3
*** Soft tissue sarcomas**	4
***Bone sarcomas**. -Osteosarcoma -Giant cell tumors -Ewing sarcoma -Chondrosarcoma	 3 3 3 3
***Leukemias** ***lymphomas** ***plasma cell neoplasms.**	4 4 4
***Paraneoplastic syndromes and** *** oncologic emergencies**	3 4
***Cancer of unknown primary site**	3
Handeling of chemotherapy side effects complications of chemotherapy	3

*** applications of biologic therapy**	3
***dealing with adverse effects of lines of treatment**	3
***Treatment of metastatic cancer.** -Brain mets -Lung mets -Liver mets -Bone mets	 3 3 3 3
***Supportive care in cancer patient.**	4
***Administration of cancer treatment**	4
*** deal with psychological aspects of pati with cancer**	4
***how to rehabilitateof cancer patients.**	3

(4) Teaching methods:

4.1: Lectures.

4.2: scientific meetings

4.3: case presentation

4.4: PANEL discussion

4.5: club journal

(5)Assessment methods:

5.1: written exam for assessment of Knowledge, and intellectual skills,

5.2: Structured oral exam for assessment of knowledge, intellectual, and practical /professional skills

5.3:OSCE clinical exam for assessment of knowledge, intellectual, practical /professional skills and communication /transferable skills.

(5) Assessment schedule:

Assessment 1: Written exam held after 36 month of admission to the job or 30 months of registeration to the MSC degree.

Assessment 2: Clinical exam held after 36 month of admission to the job or 30 months of registeration to the MSC degree and OSCE stations.

Assessment 3: Oral exam held after 36 month of admission to the job or 30 months of registeration to the MSC degree. and structured oral exam.

Assessment 4: MCQ exam held at the end of 2nd, 3rd, 4th semester.

Percentage of each Assessment to the total mark:

Written exam:240 marks,

MCQ exam: 60 marks

Clinical exam: 150 marks,

Oral exam: 150 marks,

(6) References of the course:

6.1: Text books:

PerezCA, Brady LW,Halperin EC,et al.,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

6.2: Journals:

- Journal of clinical oncology
- International journal of radiation oncology, radiobiology & physics.

6.3: Websites:

- www.asco.org
- www.esmo.org

(7) 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.