

Medical Doctorate (M.D.) Degree of Nuclear Medicine Log Book



" كراسية الأنشطة "

اللازمة لحصول المتدرب على درجة الدكتوراه فى الطب النووي

2016-2017

Contents

NO	SUBJECT	PAGE
1	Personal data	3
2	Instructions to the use of logbook	4
3	Program aims and curriculum structure	6
4	First part	8
	Essential Courses	
	1-Course 1: Medical statistics	9
	1-Course 2: Research methodology	11
	2-Course 3: Medicolegal Aspects and Ethics in Medical Practice and Scientific Research	13
	3- Course 4: Pathology	15
	4-Course 5: Internal Medicine	18
	5-Course 6: General surgery	22
5	Specialized Course (Nuclear medicine)	25
	Unit (Module)1 (Clinical Nuclear Medicine)	26
	Unit (Module)2 (Radio-isotopes therapy)	120
	Elective Course 1	143
	Elective Course 2	146
6	Other Scientific Activities	149
7	MD Degree Thesis pathway	151
8	Declaration:	152

Personal photo

Name.....
Date of birth.....
Address.....
Place of work.....
Telephones..... Mobile phone(s).....
E mail.....



Name of hospital	Period of work	Hospital director signature

Academic Information

MBBCh...../...../.....University
Grade
MSc.....University
Grade
Grade of Internal Medicine course on graduation
Others...../...../.....University
...../...../.....University

*** Aim of the activities book**

To provide one source of evidence for the assessment committee that you attained the desired level of competency required to gain the award.

In this book you will document all clinical, academic and other experiences and skills you attained during your training.

Sections of the book

For each module / course / rotation

You should fill the following sections:-

1- Clinical case log

- 1- You will first find list with all required cases in the concerned module and the minimum number of cases you must get exposed to and level of participation you should achieve for each type of cases.
- 2- You should record all clinical cases in the module and each case should be signed by you trainer.

2- Clinical case presentation log

Record the cases related to the module that you have presented in a seminar of the activity.

3- Procedures / operations log

- 1- You will find a list for required procedure, diagnostic – therapeutic operations and level of desired performance you should achieve at the end of training.
- 2- You will find empty tables to write down the procedure, you level of participation and date and signature of supervisor.

4- Rotation / attendance proof

You should have evidence of achievement of the required training hours within each module.

For the whole program fill the following sections

.1- Academic activities

A- Document all academic activities e.g. lecture, journal clubs, workshops,

conference, services attended. This documentation should include the level of participation " attendance, preparation, presentation,....."

2- Academic achievements

A- Document all outcomes you achieved in the field of:-

- Audit participation
- Research "clinical trial" participation.
- Evidence- based medicine "generation of guidelines" protocols
-

3- Formative assessment log

This document all types of formative assessment attended e.g.:-

- Mini clinical examination
- Quises

Program aims

- 1/1 To enable candidates to master high level of clinical skills, bedside care skills, in addition to update medical knowledge as well as clinical experience and competence in the area of Nuclear Medicine and enabling the candidates of making appropriate referrals to a sub-specialist
- 1/2 Provide candidates with fundamental knowledge of Nuclear Medicine as regards; mastering dealing with patients, Nuclear Medicine equipments, techniques, indications, contraindications and training skills of different nuclear medicine procedures.
- 1/3 To enable candidates to perform high standard scientific medical research and how to proceed with publication in indexed medical journals.
- 1/4 To enable candidates to describe the basic ethical and medicolegal principles relevant to Nuclear Medicine
- 1/5 To enable candidates to have professional careers as a consultant in Egypt but recognized abroad.
- 1/6 To enable candidates to continue self learning in subspecialties.
- 1/7 To enable candidates to master different research methodology and do their own.

Program Structure

Program Time Table

Duration of program up to 4 years (could be extended to 6 years) divided into

○ Part 1

Program-related essential courses

- Medical statistics.
 - Research methodology
 - Medico legal Aspects and Ethics in Medical Practice and Scientific Research
- Students are allowed to sit the exams of these courses after 6 months from applying to the M D degree.

○ Thesis and 2 published researches

For the M D thesis;

MD thesis subject should be officially registered within 1 year from application to the MD degree,

Discussion and acceptance of the thesis should not be set before 24 months from registering the M D subject;

It could be discussed and accepted either before or after passing the second part of examination

- Part 2

Program –related specialized science courses and ILOs

Students are not allowed to sit the exams of these courses before 4 years from applying to the MD degree.

First Part

Essential Courses

Course 1: Medical statistics

Course 2: Research methodology.

Course 3: Medico legal Aspects and Ethics in Medical Practice and Scientific Research

Course 4: Pathology.

Course 5: Internal Medicine.

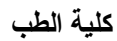
Course 6: General surgery.

Course 1: Medical statistics

● Credit points: 1 credit point

● Minimal rate of attendance 80%

Name of the course	Credit points	Responsible department	Attendance	Practical	Percentage of Achieved points
Medical statistics	1 credit point	Public Health & Community Medicine			100%
	0.1		Introduction 1 hour	SPSS Introduction 2H	10%
	0.1		Tables and graphics 1 Hour	Data entry and cleaning of data 2H	10%
	0.1		Sampling 1 Hour	Transforming of variables 2H	10%
	0.1		Methodology of data collection 1 Hour	Descriptive statistics 2 H	10%
	0.1		Type of variables 1 Hour	Graphic presentation 2 H	10%
	0.1		Proportion test Chi-square test 1 Hour	Chi square and interpretation of results 2 H	10%
	0.1		Student T test Paired T test 1 Hour	Student, Paired and ANOVA tests 2H	10%
	0.1		ANOVA test 1 Hour	Correlation Regression 2 Hour	10%
	0.1		Non parametric tests 1 Hour	Multiple and logistic Regression 2 H	10%
	0.1		Discrimination analysis factor analysis 1 Hour	Non parametric tests 2 H	10%
			Revision 1 H	Revision 2H	
Student signature			Principle coordinator signature		Head of the department signature



Lectures and tutorials

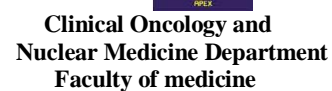
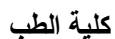
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Course 2: Research Methodology

Requirements

- Credit points: 1 credit point
- Minimal rate of attendance 80%

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Medical statistics	1 credit point	Public Health & Community Medicine		100%
	0.15		4 hours Introduction & proposal writing	15%
	0.15		4 hours Epidemiological study designs	15%
	0.15		4 hours Screening & theoretical background	15%
	0.24		6 hours Screening practical	24%
	0.15		4 hours Sample size calculation	15%
	0.08		2 hours Research bias	8%
	0.08		2 hours Ethics in research	8%
	-		2 hours Revision	-
Student signature			Principle coordinator signature	Head of the department signature



Lectures and tutorials

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Course 3

Medicolegal Aspects and Ethics in Medical Practice and Scientific Research

Requirements

- **Credit points: 1 credit point**
- Minimal rate of attendance 80%

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Medicolegal Aspects and Ethics in Medical Practice and Scientific Research	1 credit point	Forensic Medicine and Clinical Toxicology	10 hours	100%
	0.2		2 hours Suspicious death. Death and death certificate.	20%
	0.2		2 hours Supportive measures	20%
	0.2		2 hours Toxicological reports	20%
	0.2		2 hours Ethics in research.	20%
	0.2		2 hours Medical ethics.	20%
Student signature			Principle coordinator signature	Head of the department signature

Course 4

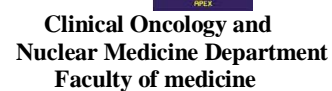
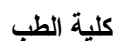
Pathology

Requirement:

● **Credit Points: 3 points for didactic.**

- Minimal rate of attendance 80% of lectures

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Pathology & Nuclear medicine	1.5	Pathology	15 hours 1. <i>General pathology of tumors</i> 2. <i>Thyroid diseases</i>	50%
Pathology & Nuclear medicine	1.5		15 hours 3. <i>Cardiology</i> a. Ischemic heart disease 4. <i>Pulmonary embolism</i> 5. <i>Bone diseases</i> b. Tumors c. Osteomyelitis 6. <i>Renal diseases</i> d. Obstructive Uropathy e. Transplant Rejection 7. <i>Liver diseases</i> f. Cirrhosis g. Gall bladder diseases 8. <i>Brain diseases</i> h. Tumors i. Cerebral ischemia	50%
Student signature			Principle coordinator Signature	Head of the department signature

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Course 4

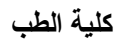
Internal medicine

- **Requirement:**

● **Credit Points: 2 points for didactic.**

- Minimal rate of attendance 80% of lectures.

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Internal Medicine	0.5	Internal Medicine	5 hours Thyroid Hypothyroidism Hyperthyroidism Thyroiditis Thyroid malignancies	25%
	0.5		5 hours Heart CAD Angina Infarction Cardiomyopathy	25%
	0.5		5 hours Renal: Chronic renal failure Golmerulonephritis Pyelonephritis Kidney transplant Acute renal failure Suprarenal Cushing Addison's Pheochromocytoma Pituitary Hypopituitarism	25%
	0.5		5 hours GIT: Liver cirrhosis Jaundice Causes of hepatosplenomegaly. GIT bleeding. Respiratory system Bronchogenic Cancer. Pulmonary embolism. Parathyroid Hyperparathyroidism Hypoparathyroidism	25%
Student signature			Principle coordinator Signature	Head of the department signature

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Course 5

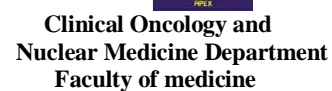
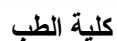
General Surgery

Requirement:

-Credit Points: 2 points for didactic.

- Minimal rate of attendance 80% of lectures.

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
General Surgery	1	General Surgery	10 hours <ul style="list-style-type: none"> • Thyrotoxicosis. • Multinodular Goiter. • Solitary thyroid nodules. • Benign and malignant thyroid tumors. • Parathyroid glands tumors. • Suprarenal tumors. 	50%
	0.5		5 hours <ul style="list-style-type: none"> • Lymphadenopathy. • Lymphomas. • Breast cancer. • Testicular torsion. • Causes of swollen leg & diagnosis of Lymphoedema. 	25%
	0.5		5 hours <ul style="list-style-type: none"> • Jaundice. • Cholecystitis and gall stones • Bone metastasis • Clinical picture and diagnosis of osteomyelitis. 	25%
Student signature			Principle coordinator Signature	Head of the department signature



Lectures

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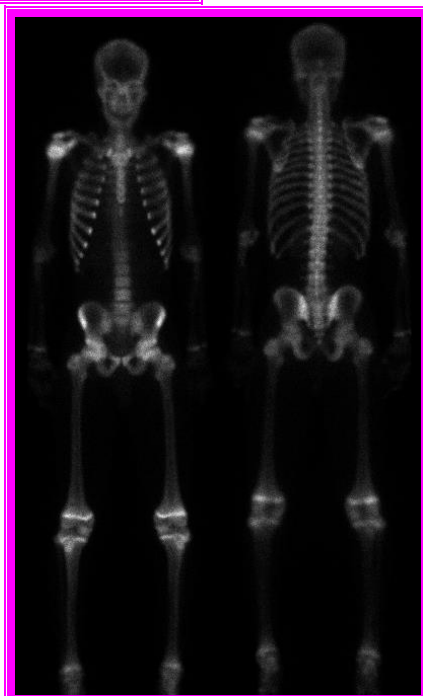
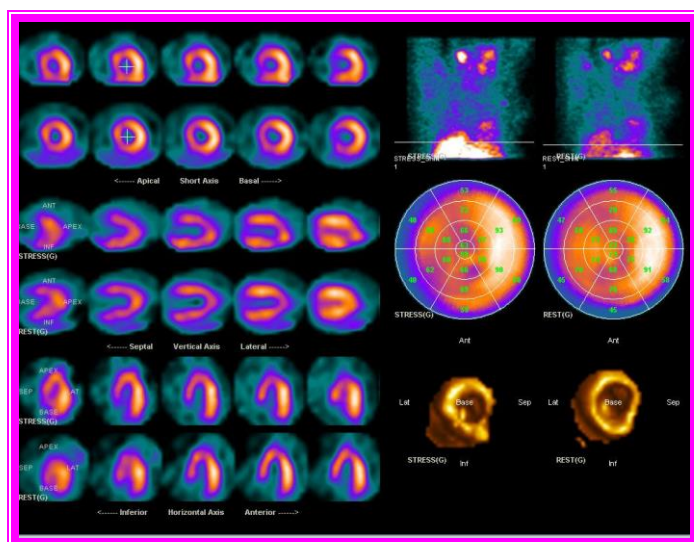
Specialized Courses

Nuclear medicine

Units' Titles' list	% from total Marks	Level (Year)	Core Credit points		
			Didactic	training	Total
1) Unit 1 "Clinical Nuclear Medicine	66.7%	1,2&3	16	82	98
2) Unit 2 " Radio-isotopes therapy	33.3%	3&4	8	41	49
Total No. of Units:	2		24	123	147

Unit (Module)1

Clinical Nuclear Medicine



Unit (Module)1

(Clinical Nuclear Medicine)

Rotation / attendance proof

الأماكن التي تدرب بها

أسم المستشفى التي تدرب بها	توقيع رئيس القسم	توقيع مدير المستشفى

Requirements

- **Credit points:** 16 credit point for didactic (lectures, seminars, tutorial) and 82 point for training.
- Minimal rate of attendance 80% of training and didactic.

Year 1

(5 credit point for didactic in Unit 1)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical Nuclear Medicine	3		Topics and attendance	60%
	3		30 hours *Skeletal systems: *Endocrine system: A. Thyroid gland. B. Adrenal Gland. C. Parathyroid gland. *Gentino-Urinary system.	60%
	1		Seminars ➤ seminar/ week for 10 weeks ➤ Presentation of at least 1 time in the seminar	20%
	0.5		Conference or workshop	10%
	0.5		➤ Formative assessment	10%
Student signature			Principle coordinator Signature	Head of the department signature

Year 1

(28 credit point for training in Unit 1)

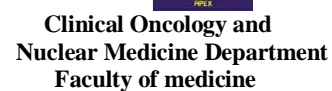
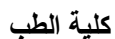
Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Training of Clinical Nuclear medicine	28	Nuclear Medicine Unit	Year 1	34% of the training in Unit 1
	23		Practice in the department for at least 6 months ➤ Log of cases as mentioned below ➤ Procedures log as mentioned below	82.14%
	2		➤ Clinical teaching 2 hours /week/ for 30 week	7.14%
	3		➤ Formative assessment	10.7%
Student signature			Principle coordinator Signature	Head of the department signature

Requirements

- **Log of:**

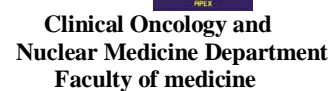
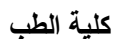
Case	Number
1. Skeletal systems: Osteosarcoma, 1ry bone tumors Bone metastasis: *single lesion. *Multiple metastases. *super-scan. FLARE phenomena. Metastases, hypercalcemia, Neuroblastoma. Giant Cell Tumor. Hypertrophic pulmonary osteoarthropathy. Multiple hereditary exostoses Metabolic bone diseases. Traumatic bone lesions Sport injuries. Osteomyelitis versus Cellulites. Rheumoid arthritis. Osteoarthritis. Infected joint replacement. Other less common bone diseases.	200 Bone scintigraphy
1. Endocrine system: A. Thyroid gland: Congenital hypothyroidism. Single cold nodule. Multinodular goiter. Diffuse toxic goiter. Autonomous toxic nodule Thyroiditis Papillary cancer thyroid Follicular cancer thyroid	<div> 100 Thyroid scintigraphy </div> <div> 30 I-131 WBS </div>

<p>Medullary cancer thyroid Undifferentiated ca thyroid Thyroid eye diseases B. Adrenal Gland: Pheochromocytoma Neuroblastoma Hyperplasia C. Parathyroid gland Normal Parathyroid adenoma. Parathyroid carcinoma. Ectopic parathyroid gland Hyperplasia</p> <ul style="list-style-type: none"> • MEN syndromes • Carcinoid 	<p>5 Parathyroid scintigraphy</p>
<p>2. Gentino-Urinary system Renal failure. Obstructive uropathy. Horseshoe kidney. Ectopic kidney. Renovascular hypertention Renal transplant. Vesicoureteric reflux</p> <ul style="list-style-type: none"> • Testicular torsion • Hyserosalpingography. 	<p>100 Renal scintigraphy</p>



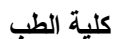
First: Attendance

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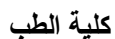
First: Attendance

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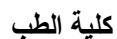
Second: Case presentation

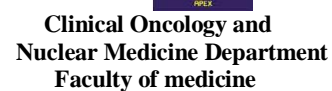
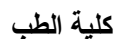
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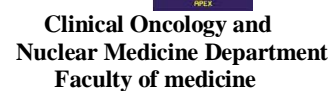
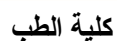


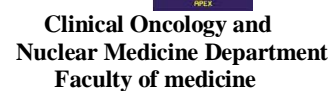
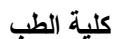
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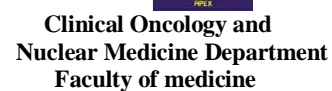
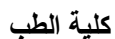
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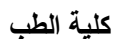
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Perform Bone scintigraphy

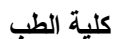
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A- Independent performance
B- Performance under supervision
C- Observed



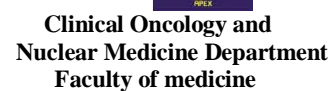
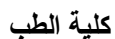
Perform Bone scintigraphy

* Level of competency
A- Independent performance
B- Performance under supervision
C- Observed



Interpret Bone scintigraphy

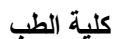
* Level of competency
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Interpret Bone scintigraphy

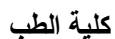
[illegible]

A- Independent performance
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C- Observed



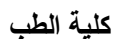
Perform Thyroid scintigraphy

* Level of competency
A- Independent performance
B- Performance under supervision
C- Observed



Perform Thyroid scintigraphy

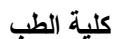
* Level of competency
A- Independent performance
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Interpret Thyroid scintigraphy

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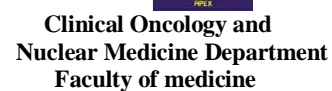
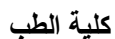
A- Independent performance
B- Performance under supervision
C- Observed



Interpret Thyroid scintigraphy

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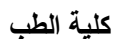
A- Independent performance
B- Performance under supervision
C- Observed



Perform I-131 WB scintigraphy

[illegible]

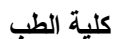
A- Independent performance
B- Performance under supervision
C- Observed



Interpret I-131 WB scintigraphy

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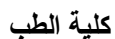
A- Independent performance
B- Performance under supervision
C- Observed



Interpret I-131 WB scintigraphy

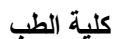
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A- Independent performance
B- Performance under supervision
C- Observed



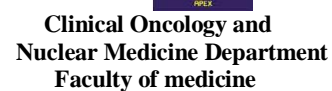
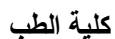
Perform Renal scintigraphy

* Level of competency
A- Independent performance
B- Performance under supervision
C- Observed



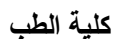
Perform Renal scintigraphy

* Level of competency
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C- Observed

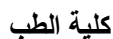


Interpret Renal scintigraphy

* Level of competency
A- Independent performance
B- Performance under supervision
C- Observed

[illegible]

C- Observed



Clinical case log

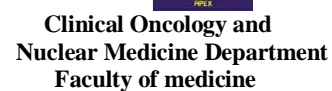
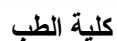
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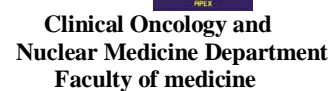
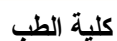
* Level of participation

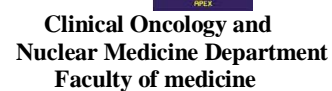
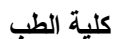
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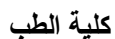
B- Carry out

C- Carry out under supervision

[illegible]

[illegible]

[illegible]

[illegible]

Year 2

(6 credit points for didactic in Unit 1)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical Nuclear medicine	4		Topics and attendance	66.67%
	2		20 hours *Gastro-Intestinal system. *Liver-spleen scanning. *Biliary system imaging. *Infection & inflammation.	33.34%
	2		20 hours * Cardiovascular system. *Pulmonary system.	33.33%
	1		Seminars ➤ seminar/ week for 10 weeks ➤ Presentation of at least 1 time in the seminar	16.6%
	0.5		Conference or workshop	8.3%
	0.5		➤ Formative assessment	8.3%
Student signature			Principle coordinator Signature	Head of the department signature

Year 2

(27 credit point for training in Unit 1)

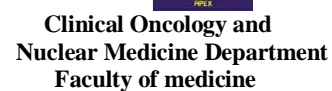
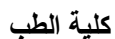
Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Training of Clinical Nuclear medicine	27	Nuclear Medicine Unit	Year 2	32.93% of the training in Unit 1
	22		Practice in the Department for at least 5.5 months ➤ Log of cases as mentioned below ➤ Procedures log as mentioned below	81.5%
	2		➤ Clinical teaching 2 hours /week/ for 15 week	11.1%
	3		➤ Formative assessment	7.4%
Student signature			Principle coordinator Signature	Head of the department signature

Requirements

- Log of

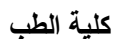
Case	Number
1. Gasro-Intestinal system: Salivary gland scanning Esophageal transient (Achalasia, and other esophageal motility disorders) Gastrooesophageal reflux Gastric emptying (delayed gastric emptying) Gastrointestinal bleeding Malabsorption and intestinal transient.	20 GIT scintigraphy (Hepato-biliary scintigraphy, GIT bleeding, Gastric motility, and Salivary gland scintigraphy)
2. Liver-spleen scanning: Hepatic focal lesion. Focal nodular hyperplasia Regenerating nodule of cirrhosis Splenosis & hemolytic anemia Liver Haemangioma.	As logged of
3. Biliary system imaging Acute calcular cholecystitis Biliary obstruction: - Congenital billiary atresia - acquired:postoperative. Postoperative complications of bile surgery: e.g.: biliary leak, postcholecystectomy syndrome, biliary stent Acute & chronic acalcular cholecystitis. Sphincter of Oddi Dysfunction Coledocal cyst.	10 Hepatobilliary scintigraphy
Infection & inflammation : Pyrexia of unknown origin Abdominal infection Chest infection Sarcoidosis Pelvic infection	5Infection imaging

Inflammatory bowel diseases Infection in immunocompromized patients.	
3. Myocardial perfusion Ischemic heart diseases Congenital heart disease and intracardiac shunts Myocardial Infarction Hibernating myocardium.	20 Cardiac scintigraphy
4. Pulmonary system: Pulmonary embolism. Nonembolic lung diseases.	10 Lung scintigraphy



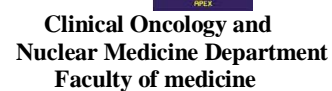
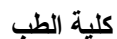
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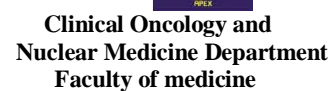
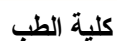
First: Attendance

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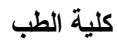
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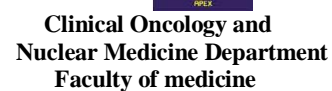
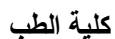
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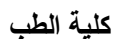


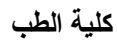
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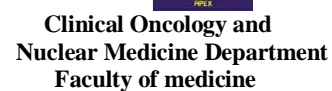
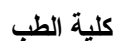
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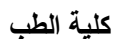
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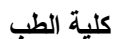
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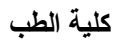
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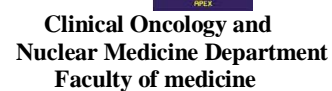
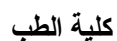


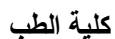
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C- Observed

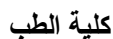
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A- Independent performance
B- Performance under supervision
C- Observed

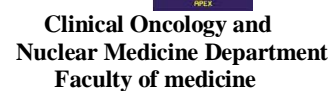
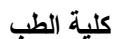
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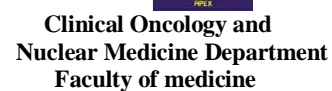
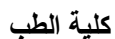
C- Observed

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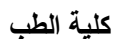
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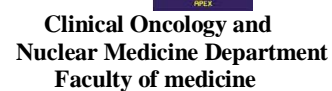
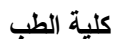
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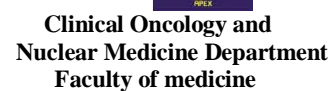
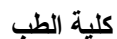
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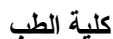
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C- Observed

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Clinical case log

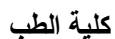
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* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



Clinical case log

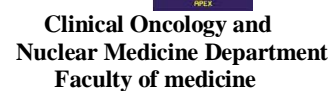
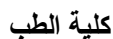
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A- Plan and carry out

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Clinical case log

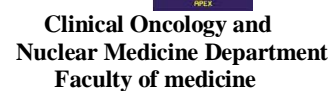
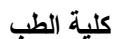
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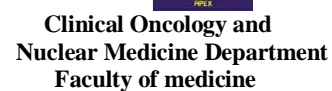
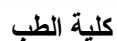
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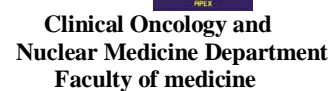
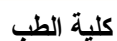
A- Plan and carry out

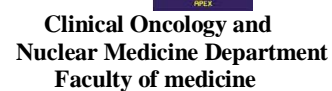
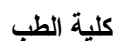
B- Carry out

C- Carry out under supervision

[illegible]

[illegible]

[illegible]

[illegible]

Year 3

(5 credit point for didactic in Unit 1)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical Nuclear Medicine	3		Topics and attendance	60%
	3		30 hours Central nervous system. Tumor imaging. PET and PET/CT. Lymphoscintigraphy. Myeloproliferative diseases.	60%
	2		Seminars ➤ seminar/ week for 20 weeks ➤ Presentation of at least 1 time in the seminar	40%
	0.5		Conference or workshop	10%
	0.5		➤ Formative assessment	10%
Student signature			Principle coordinator Signature	Head of the department signature

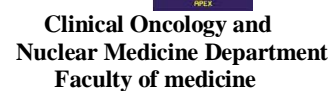
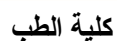
(27 credit point for training in Unit 1)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Training of Clinical Nuclear medicine	27	Nuclear Medicine Unit	Year 3	33% of the training in Unit 1
	22		Practice in the Department for at least 5.5 months ➤ Log of cases as mentioned below ➤ Procedures log as mentioned below	81.5%
	2		➤ Clinical teaching 2 hours /week/ for 15 week	7.4%
	3		➤ Formative assessment	11.1%
Student signature			Principle coordinator Signature	Head of the department signature

Requirements

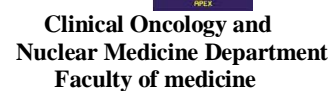
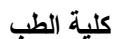
- Log of

Case	Number
1. Central nervous system: Cerebrovascular diseases Acute cerebrovascular stroke Dementia Brain death Brain tumors Hydrocephalus CSF leak Obstructed shunt Parkinsonism Psychiatric disorders Schizophrenia OCD Depression Epilepsy Metastatic disease.	5 Brain scintigraphy
5. Tumor imaging Tc99m MIBI whole body scan I131 MIBG whole body scan. Thallium 201, Gallium 67 scan Immunoscintigraphy Scintimamography Somatostatin receptor imaging.	10 Tumor imaging
6. Lymphoscintigraphy: lymphatic obstruction, lymphedema. Sentinel LN detection in breast ca. and melanoma.	2 Sentinel lymph node localization. 2 Lympho scintigraphy.
7.Others	2 Dacryo scintigraphy.



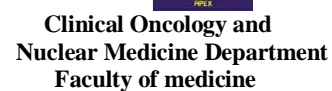
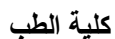
First: Attendance

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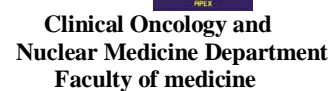
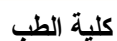
First: Attendance

MD Degree of Nuclear Medicine Log Book



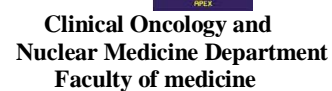
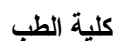
Second: Case presentation

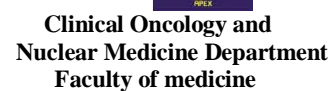
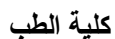
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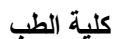


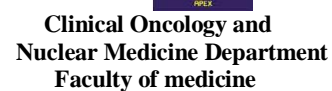
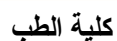
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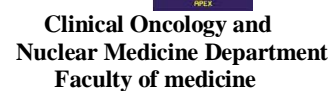
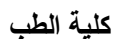
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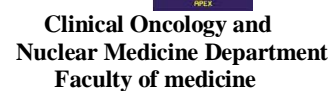
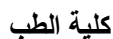
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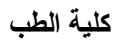
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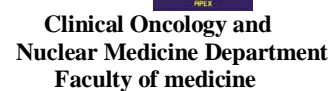
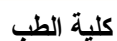


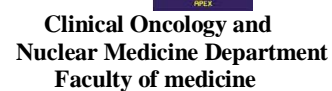
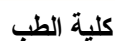
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A- Independent performance
B- Performance under supervision
C- Observed

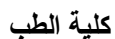
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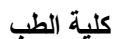
A- Independent performance
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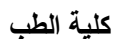
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A- Independent performance
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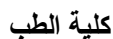
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A- Independent performance
B- Performance under supervision
C- Observed

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C- Observed



Clinical case log

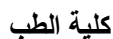
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* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



Clinical case log

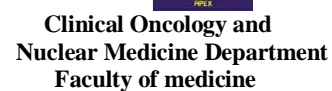
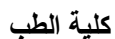
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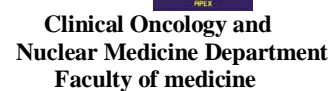
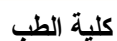
* Level of participation

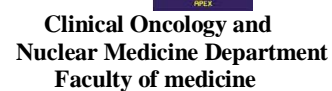
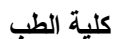
A- Plan and carry out

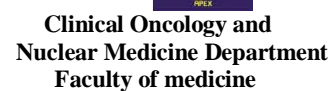
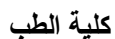
B- Carry out

C- Carry out under supervision

[illegible]

[illegible]

[illegible]

[illegible]

Postgraduate student's program Rotation in training assessment

* **Name:**

* **Period of training** **From:**

To:

* **Site:**

*Rotation

General skills	could not judge (0)	strongly disagree(1)	(2) (3)	(4) (5)	(6)	strongly agree (7)
Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of his field.						
Appraise scientific evidence.						
Continuously improve patient care based on constant self-evaluation and <u>life-long learning</u> .						
Participate in clinical audit and research projects.						

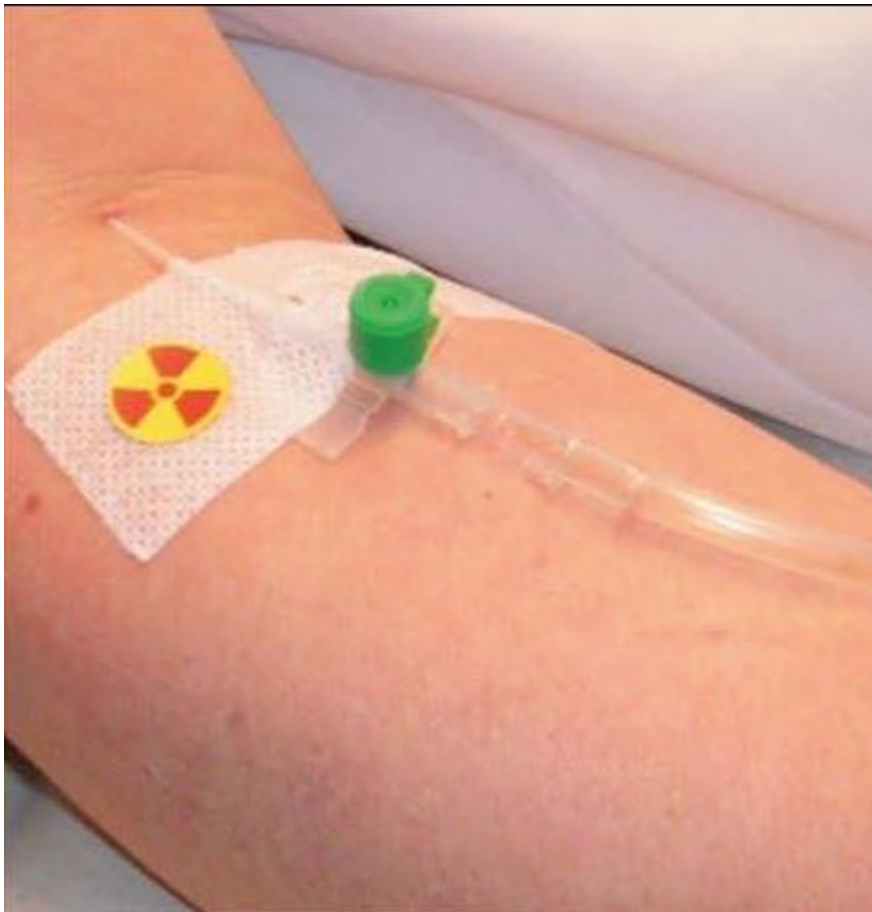
General skills	could not judge (0)	strongly disagree(1)	(2)	(3)	(4)	(5)	(6)	strongly agree (7)
Practice skills of evidence-based Medicine (EBM).								
Educate and evaluate students, residents and other health professionals.								
Design logbooks.								
Design clinical guidelines and standard protocols of management.								
Appraise evidence from scientific studies related to the patients' health problems.								
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.								
Use information technology to manage information, access on- line medical information; for the important topics.								
Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:- <ul style="list-style-type: none"> • <u>Present</u> a case. • <u>Write</u> a consultation note. • <u>Inform patients</u> of a diagnosis and therapeutic plan Completing and maintaining comprehensive. • Timely and legible <u>medical records</u>. • Teamwork skills. 								

General skills	could not judge (0)	strongly disagree(1)	(2) (3)		(4) (5)		(6)	strongly agree (7)
Create and sustain a therapeutic and ethically sound relationship with patients.								
Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.								
Work effectively with others as a member or leader of a health care team or other professional group.								
Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.								
Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.								
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.								
Work effectively in health care delivery settings and systems related to specialty including good administrative and time management.								
Practice cost-effective healthcare and resource allocation that does not compromise quality of care.								

General skills	could not judge (0)	strongly disagree(1)	(2) (3)	(4) (5)	(6)	strongly agree (7)
Advocate for quality patient care and assist patients in dealing with system complexities.						
Design, monitor and evaluate specification of under and post graduate courses and programs.						
Act as a chair man for scientific meetings including time management						

Unit (Module)2

Radio-isotopes therapy



Unit (Module)2

Radio-isotopes therapy

Rotation / attendance proof

الأماكن التي تدرب بها

أسم المستشفى التي تدرب بها	توقيع رئيس القسم	توقيع مدير المستشفى

Requirements

- Credit points: 8 for didactic and 41 point for training.
- Minimal rate of attendance 80% of training and didactic.

Year 3

(5 credit point for didactic in Unit 2)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical Nuclear Medicine Radio-isotopes therapy	3		Topics and attendance	60%
	3		30 hours <ul style="list-style-type: none"> • Thyrotoxicosis • Differentiated Cancer thyroid • Undifferentiated Cancer thyroid • Medullary Cancer thyroid • Neuroendocrinal tumors <ul style="list-style-type: none"> ○ Pheohromocytoma ○ Neuroblastoma ○ Carcinod tumors. 	60%
	1		Seminars <ul style="list-style-type: none"> ➤ seminar/ week for 10 weeks ➤ Presentation of at least 1 time in the seminar 	20%
	0.5		Conference or workshop	10%
	0.5		➤ Formative assessment	10%
Student signature			Principle coordinator Signature	Head of the department signature

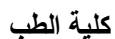
Year 3

(31 credit point for training in Unit 2)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Training of Clinical Nuclear medicine Radio-isotopes therapy	31	Nuclear Medicine Unit	Year 3	75.6% of the training in Unit 2
	25		Practice in the Department for at least 6 months ➤ Log of cases as mentioned below ➤ Procedures log as mentioned below	80.65%
	3		➤ Clinical teaching 1 hour /week/ for 10 week	9.68%
	3		➤ Formative assessment	9.67%
Student signature			Principle coordinator Signature	Head of the department signature

Log of:

Case	Number
<ul style="list-style-type: none"> Thyrotoxicosis <ul style="list-style-type: none"> Graves' disease Autonomous nodule Secondary toxic goiter Differentiated Cancer thyroid Undifferentiated Cancer thyroid Medullary Cancer thyroid Neuroendocrinal tumors <ul style="list-style-type: none"> Pheohromocytoma Neuroblastoma Carcinod tumors. 	<p>10 cases</p> <p>2 cases</p> <p>5 cases</p> <p>30 cases</p> <p>As logged of</p> <p>As logged of</p> <p>As logged of</p>



Cases log book

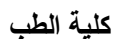
[illegible]

* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



Cases log book

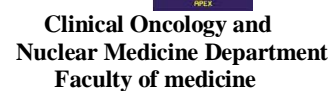
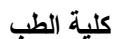
[illegible]

* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



Cases log book

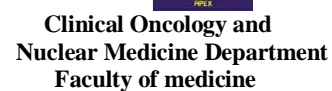
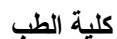
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* Level of participation

A- Plan and carry out

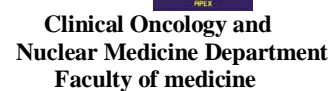
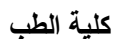
B- Carry out

C- Carry out under supervision



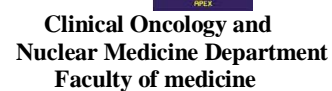
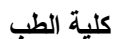
First : lectures

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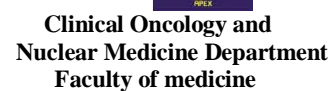
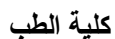
First: lectures

[illegible]



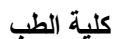
Second: Tutorial

[illegible]

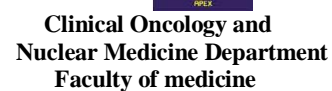
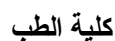


Third: Clinical Teaching

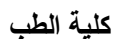
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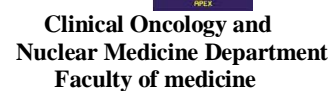
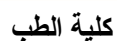
A- Independent performance
B- Performance under supervision
C- Observed

[illegible]

A- Independent performance
B- Performance under supervision
C- Observed

[illegible]

A- Independent performance
B- Performance under supervision
C- Observed

[illegible]

A- Independent performance
B- Performance under supervision
C- Observed

Year 4

(3 credit point for didactic in Unit 2)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical Nuclear Medicine Radio-isotopes therapy	1.5		Topics and attendance	50%
	1.5		17.5 hours Radionuclide therapy for painful bone disease. Radionuclide therapy of lymphoma Radionuclide therapy of primary and metastatic hepatic tumors Radiosynovectomy. Intracavitary lesions Coronary atherosclerosis (intracoronary brachytherapy) Colonic cancer, Ovarian Cancer, Prostaic cancer (Radiolabeled antibodies in therapy of malignant diseases) Lung cancer , thyroid NET (Radiolabeled somatostatin analogs in therapy of malignant diseases. Myeloproliferative diseases (polycythemia vera and essential thrombocythemia).	50%
	0.5		Seminars ➤ seminar/ week for 5 weeks ➤ Presentation of at least 1 time in the seminar	16.67%
	0.5		Conference or workshop	16.67%
	0.5		➤ Formative assessment	16.67%
Student signature			Principle coordinator Signature	Head of the department signature

Year 4

(10 credit point for training in Unit 2)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Training of Clinical Nuclear medicine Radio-isotopes therapy	10	Nuclear Medicine Unit	Year 4	24.4% of the training in Unit 2
	5		<ul style="list-style-type: none"> ➤ Log of cases as mentioned below ➤ Procedures log as mentioned below 	50%
	4		➤ Clinical teaching 1 hour /week/ for 5 week	40%
	1		➤ Formative assessment	10%
Student signature			Principle coordinator Signature	Head of the department signature

Log of:

Case	Number
<ul style="list-style-type: none"> • Painful bone metastasis • Lymphomas • Primary and metastatic hepatic tumors • Radiosynovectomy • Intracavitary lesions • Coronary atherosclerosis (intracoronary brachytherapy) • MEN syndromes • Colonic cancer, Ovarian Cancer Prostaic cancer (Radiolabeled antibodies in therapy of malignant diseases) • Lung cancer , thyroid NET (Radiolabeled somatostatin analogs in therapy of malignant diseases) • Myeloproliferative diseases (polycythemia vera and essential thrombocythemia) 	<p>As logged of</p> <p>As logged of</p> <p>As logged of</p> <p>As logged of</p> <p>As logged of</p> <p>As logged of</p> <p>As logged of</p> <p>As logged of</p> <p>As logged of</p> <p>As logged of</p>

Postgraduate student's program Rotation in training assessment

* **Name:**

* **Period of training** **From:**

To:

* **Site:**

*Rotation

General skills	could not judge (0)	strongly disagree(1)	(2) (3)	(4) (5)	(6)	strongly agree (7)
Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of his field.						
Appraise scientific evidence.						
Continuously improve patient care based on constant self-evaluation and <u>life-long learning</u> .						
Participate in clinical audit and research projects.						

General skills	could not judge (0)	strongly disagree(1)	(2)	(3)	(4)	(5)	(6)	strongly agree (7)
Practice skills of evidence-based Medicine (EBM).								
Educate and evaluate students, residents and other health professionals.								
Design logbooks.								
Design clinical guidelines and standard protocols of management.								
Appraise evidence from scientific studies related to the patients' health problems.								
Apply knowledge of study designs and statistical methods to the appraisal of clinical studies.								
Use information technology to manage information, access on- line medical information; for the important topics.								
Master interpersonal and communication skills that result in the effective <u>exchange of information and collaboration</u> with patients, their families, and health professionals, including:- <ul style="list-style-type: none"> • <u>Present</u> a case. • <u>Write</u> a consultation note. • <u>Inform patients</u> of a diagnosis and therapeutic plan Completing and maintaining comprehensive. • Timely and legible <u>medical records</u>. • Teamwork skills. 								

General skills	could not judge (0)	strongly disagree(1)	(2)	(3)	(4)	(5)	(6)	strongly agree (7)
Create and sustain a therapeutic and ethically sound relationship with patients.								
Elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.								
Work effectively with others as a member or leader of a health care team or other professional group.								
Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society.								
Demonstrate a commitment to ethical principles including provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.								
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.								
Work effectively in health care delivery settings and systems related to specialty including good administrative and time management.								
Practice cost-effective healthcare and resource allocation that does not compromise quality of care.								

General skills	could not judge (0)	strongly disagree(1)	(2) (3)	(4) (5)	(6)	strongly agree (7)
Advocate for quality patient care and assist patients in dealing with system complexities.						
Design, monitor and evaluate specification of under and post graduate courses and programs.						
Act as a chair man for scientific meetings including time management						

Elective Course 1

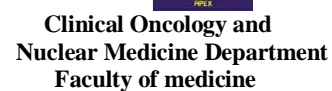
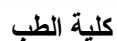
Requirements

● **Credit points:** 1.5 credit point.

- Minimal rate of attendance 80% of lectures and 80% of training

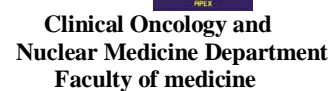
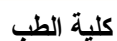
One of these courses

- Advanced medical statistics.
- Evidence based medicine.
- Advanced infection control.
- Quality assurance of medical education.
- Quality assurance of clinical practice.
- -Hospital management



Elective Course Lectures

[illegible]

[illegible]

Elective Course 2

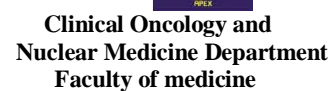
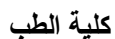
Requirements

● **Credit points:** 1.5 credit point.

- Minimal rate of attendance 80% of lectures and 80% of training

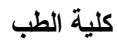
One of these courses

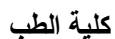
- Advanced medical statistics.
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Elective Course Lectures

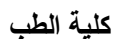
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[illegible]



Lecture, journal club, conference, workshop

**** Your role:-**
A- Attendance
B- Organization
C- Presentation

[illegible]

A- Excellent
B- Very good
C- Good
D- Pass

الرسائل العلمية

عنوان الرسالة

عربي : _____

انجليزي : _____

المشرفون : _____

1- _____

2- _____

3- _____

4- _____

تاريخ القيد لدرجة : _____ / /

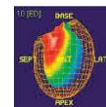
تاريخ التسجيل الموضوع : _____

المتابعة الدورية : _____

التاريخ	ما تم انجازه من بوورتوكول البحث	المتبقي	توقيع المشرفين



كلية الطب



Clinical Oncology and
Nuclear Medicine Department
Faculty of medicine

Declaration

Course Structure Mirror	Responsible (Course) Coordinator Name:	Signature	Date
First Part			
-Course 1			
-Course 2			
-Course 3			
-Course 4			
-Course 5			
-Course 6			
- Elective Course (1) Certificate Dates:			
- Elective Course (2) Certificate Dates:			
- M. D. Thesis Acceptance Date:			
- Fulfillment of required contact hours prior to final examination			
Second Part			
Course 7			
Unit (Module)1			
Unit(Module) 2			
Nuclear Medicine M D Degree Principle Coordinator:			
Date approved by Department Council:			

يعتمد ،
رئيس القسم

أ.د./