



Assiut University
Faculty of Medicine



Faculty of Medicine
Quality Assurance Unit

Master Degree of Neurosurgery Log Book

" كراسة الأنشطة "

اللائحة لحصول المتدرب على درجة الماجستير
في جراحة المخ و الأعصاب
طبقا لللائحة النقاط المعتمدة

2022-2023



Assiut University
Faculty of Medicine



Faculty of Medicine
Quality Assurance Unit

بيانات شخصية عن المتدرب



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

Grade of Internal Medicine course on graduation

Others...../...../..... University

...../...../..... University

تاريخ التسجيل لدرجة الماجستير





*** 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:-

A- 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 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 Acquire satisfactory level of clinical skills, bedside care skills, in addition to update medical knowledge as well as clinical experience and competence in the area of Neurosurgery and enabling the candidates of making appropriate referrals to a sub-specialist
- 1/2 To introduce candidates to the basics of scientific medical research
- 1/3-Enable candidates to start professional careers as specialists in Egypt but recognized abroad.
- 1/4 To enable candidates to understand and get the best of published scientific research and do their own.

Program Structure

Duration of program 3 years maximally 5 years divided into

- Part 1

Program-related basic science courses and ILOs + elective courses

Students are allowed to set the exams of these courses after 12 months from applying to the M Sc degree.

- Thesis

For the M Sc thesis;

MSc thesis subject should be officially registered within 6 months from application to the MSc degree,

Discussion and acceptance of the thesis should not be set before 12 months from registering the M Sc subject;

It could be discussed and accepted before passing the second part of examination)

- Part 2

Program –related speciality courses and ILOs

Students are not allowed to set the exams of these courses before 3 years from applying to the MSc degree.

n.b. Fulfillment of the requirements in each course as described in the template and registered in the log book is a pre-request for candidates to be assessed and undertake part 1 and part 2 examinations.



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First Part

Academic activities of basic sciences

- Practice with the academic and clinical departments during year 1
- Neuroanatomy
- Histology of Nervous system
- Neuro physiology
- Neuropathology
- General surgery
- Neurological diseases



Neuroanatomy

Requirements

- **Credit points: 2 credit point.** -Attendance of at least 80 % of
- Osteology of skull vertebrae
- Head, neck scalp
- Intracranial content
- Meninges and CSF
- Gross anatomy of brain
- Cerebral cortex
- Structure-of –epencephalon, diencephalon, hypothalamus
- Corpus callosum
- Blood supply of central nervous system
- Development and histogenesis of central nervous system
- Autonomic nervous system
- spinal cord
- Gross anatomy
- Tract of spinal cord
- segmental innervation, plexuses and peripheral nerve



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Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Anatomy	2 CP	Anatomy	Attendance of 20 hours	100%
Anatomy	0.5	Anatomy	5 hours Anatomy of: <ul style="list-style-type: none"> • osteology of skull vertebra • Head, neck scalp • Intracranial content • Meanings and CSF 	25%
	0.5		5 hours - Gross anatomy of brain -Cerebral cortex -Structure-of epencephalon, diencephalon, hypothalamus Corpus callosum	25%
	0.5		5 hours <ul style="list-style-type: none"> • Blood supply of central nervous system • Development and histogenesis of central nervous system • Autonomic nervous system • spinal cord 	25%
	0.5		5 hours <ul style="list-style-type: none"> • Autonomic nervous system Development and histogenesis of central nervous system • spinal cord • Gross anatomy • Tract of spinal cord • segmental innervation, plexuses and peripheral nerve 	25%
Student signature			Principle coordinator signature	Head of the department signature

[illegible]



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Histology of Nervous system

Requirements

● **Credit points: 2 credit point.** -Attendance of at least 80 % of

- 1-Meninges, choroid plexus
- 2-Blood- brain barrier
- 3-Neuron
- 4-Neurogia
- 5-Nerve ending (receptors and effectors)
- 6-Internal structure of cerebral cortex, white matter, mid brain, pons, medulla, cerebellum, hypophyseal gland, spinal cord
- 7- Ganglia
- 8-Peripheral nerve
- 9- Degeneration and regeneration of nerves



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Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Histology	2 credit point	Histology	Attendance of 20 hours	100%
Histology	0.5	Histology	5 hours Histological Principles of : 1-Meninges, choroid plexus 2-Blood- brain barrier	25%
	0.5		5 hours Histological Principles of 3-Neuron 4-Neurologia	25%
	0.5		5 hours Histological Principles of : 5-Nerve ending (receptors and effectors) 6-Internal structure of cerebral cortex, white matter, mid brain, pons, medulla, cerebellum, hypophyseal gland, spinal cord	25%
	0.5		5 hours Histological Principles of : 7- Ganglia 8-Perpheral nerve 9- Degeneration and regeneration of nerves	25%
Student signature			Principle coordinator signature	Head of the department signature

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Neuro physiology

Requirements

● Credit points: 2 credit point.


- 1-Basic biology of neuron
- 2- Synaptic transmission
- 3-Motor system including cerebellum
- 4-Visual system
- 5- Auditory system
- 6-Olfaction and taste
- 7-Autonomic nervous system
- 8-Arousal, emotion and memory
- 9-Speech
- 10-CSF circulation
- 11-Control of vasculature, blood- brain barrier
- 12- Neuro- endocrinology including hypothalamus and pituitary gland



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Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Neuro-Physiology	2 Credit point	Neuro-Physiology	Attendance of 20 hours	
Neuro-Physiology	0.5	Neuro-Physiology	5 hours  Physiology of : -Basic biology of neuron Synaptic transmission -Motor system including cerebellum	25%
	0.5		5 hours -Visual system - Auditory system -Olfaction and taste	25%
	0.5		5 hours -Autonomic nervous system -Arousal, emotion and memory -Speech	25%
	0.5		5 hours -CSF circulation -Control of vasculature, blood-brain barrier - Neuro- endocrinology including hypothalamus and pituitary gland	25%
Student signature			Principle coordinator signature	Head of the department signature

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Neuropathology

Requirements

● Credit points: 2 credit point.

1-General topics of inflammation, degeneration, tumors, trauma, repair embolism, infarction, thrombosis

2-Gross and histological feature of :

a- Congenital neuroectodermal pathology

b- Intracranial infection

c- Vascular lesion

d- Traumatic lesion

e- CNS neoplasm

f- Peripheral nerve disorder: trauma, inflammation, tumors

3- Neuropathology of skull

4-Spine: disc, trauma, tumors



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Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Pathology	0.5	Pathology	5 hours 1-General topics of inflammation, degeneration, tumors, trauma, repair embolism, infarction, thrombosis	25%
	0.5		5 hours 2-Gross and histological feature of a- Congenital neuroectodermal pathology b- Intracranial infection c- Vascular lesion	25%
	0.5		5 hours 2-Gross and histological feature of d- Traumatic lesion e- CNS neoplasm f- Peripheral nerve disorder: trauma, inflammation, tumors	25%
	0.5		5 hours 3- Neuropathology of skull 4-Spine: disc, trauma, tumors	25%
Student signature			Principle coordinator signature	Head of the department signature

[illegible]



General surgery

Requirements

- **Credit points:** 3 credit point for didactic (lectures, seminars, tutorial) and 3 point for training.

- ✚ Minimal rate of attendance 80% of didactic and training
 - Practice with clinical cases in each of the following:
 - General surgery Unit
 - Trauma Unit
 - Operative theatre

Topic

- Electrolyte
- Acid- base balance
- Shock
- Hemorrhage
- Multiple Injured patients
- Surgical infection
- Abdominal exploration
- Neck triangles



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Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
General surgery	3 Total credit point	General surgery	30 hours attendance or 15 hours active participation	100%
	1		<ul style="list-style-type: none"> • Electrolyte • Acid- base balance • Shock 	33.3%
	1		<ul style="list-style-type: none"> • Hemorrhage • Multiple Injured patient 	33.3%
	1		<ul style="list-style-type: none"> • Surgical infection • Abdominal exploration • Neck triangles 	33.4%
Student Signature			Principle coordinator signature	Head of the department signature

[illegible]



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Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Surgery department	Total 3	Surgery department	3 weeks	100%
	1	General Surgery department	Practice with clinical cases in the department of General Surgery and interpretation of their different related laboratory investigation for 1 week ➤ Log of cases as mentioned below ➤ Procedures log as mentioned below	33.3%
	1		Practice with clinical cases for 1 week in Trauma unit of surgery ➤ Log of cases as mentioned below ➤ Procedures log as mentioned below - Log of basic surgical techniques and abdominal incisions	33.4%
	1		Attendance in the Operative theatre of surgery for 1 week	33.3%
Student signature			Principle coordinator signature	Head of the department signature



General surgery cases

Cases	Number
Shock	2
Hemorrhage	2
Multiple Injured patients	2
Surgical infection	2
Neck swelling	2
Abdominal exploration	2



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Principles of Basics of General surgery Course

A-Clinical case log

H.N Or Date	Diagnosis of case	Level of participation *	Location	Signature of supervisor

* Level of participation

A- Plan and carry out

B- Carry out/

C- Carry out under supervision

[illegible]

A- Plan and carry out

B- Carry out

C- Carry out under supervision



B-Rotation and attendance in Units

[illegible]



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C- Procedure log

-Basic surgical technique

Abdomen-neck

Test for the competency in the procedure* or operation

Date	Procedure/ operation	Level of competency*	Signature of supervisor

Level of competency *

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



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Test for the competency in the procedure* or operation

Date	Procedure/ operation	Level of competency*	Signature of supervisor

Level of competency *

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



Neurological diseases

Requirements

- **Credit points:** 3 credit point for didactic (lectures, seminars, tutorial) and 7 points for training.

✚ Minimal rate of attendance 80% of didactic and training

- Practice with clinical cases in each of the following:

- Neurology Department
- Neurology ICU Unit
- Neurology outpatient clinic

Topics

- Stroke
- Epilepsy
- CNS infection
- Demylinating diseases
- Muscle disease
- Peripheral neuropathy
- Paraplegia
- Speech disorder
- Neurogenic bladder
- Migraine
- Ataxia
- Extrapyrarnidal syndrome



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Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
Neurological Diseases	3 Total credit point	Neurology Department	30 hours attendance or 15 hours active participation	100%
	(Total 1CP) 0.25 0.25 0.25 0.25		10 hours attendance or 5 hours active participation <ul style="list-style-type: none"> • Stroke • Epilepsy • CNS infection • Demyelinating diseases 	33.3%
	(Total 1CP) 0.25 0.25 0.25 0.25		10 hours attendance or 5 hours active participation <ul style="list-style-type: none"> • Muscle disease • Peripheral neuropathy • Paraplegia • Speech disorder 	33.3%
	(Total 1CP) 0.25 0.25 0.25 0.25		10 hours attendance or 5 hours active participation <ul style="list-style-type: none"> • Neurogenic bladder • Migraine • Ataxia • Extrapramidal syndrome 	33.4%
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Neurological Diseases Course Lectures

[illegible]



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Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training Neurological diseases	Total 7 CP	Neurology department	7 weeks	100%
	3	Neurology department	Practice with clinical cases in the department of Neurology and interpretation of their different related laboratory investigation and Imaging for 3 weeks ➤ Log of cases as mentioned below ➤ Procedures log as mentioned below	42.85 %
	2		Practice with Critical cases for 2 weeks in Neurology ICU Unit ➤ Log of cases as mentioned below ➤ Procedures log as mentioned below	28.58%
	2		Practice with clinical cases in Neurology outpatient clinic for 2 week	28.57%
Student signature			Principle coordinator Signature	Head of the department signature



Neurological Diseases cases

Cases	Number
Stroke	2
Epilepsy	2
CNS infection	2
Demylinating diseases	2
Muscle disease	2
Peripheral neuropathy	2
Paraplegia	2
Speech disorder	2
Neurogenic bladder	2
Migraine	2
Ataxia	2
Exrapyramidal syndrome	2



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Principles of Basics of Neurological Diseases Course

A-Clinical case log

H.N Or Date	Diagnosis of case	Level of participation *	Location	Signature of supervisor

- * Level of participation
 A- Plan and carry out
 B- Carry out/
 C- Carry out under supervision



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A-Clinical case log

H.N Or Date	Diagnosis of case	Level of participation *	Location	Signature of supervisor

* Level of participation

A- Plan and carry out

B- Carry out

C- Carry out under supervision



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B-Rotation and attendance in Units

Date From ---- to----	Unit	Duration	Signature of supervisor



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C- Procedure log (Lumbar puncture- Intubation)

Test for the competency in the procedure*

Date	Procedure	Level of competency*	Signature of supervisor

Level of competency *

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



Year 1

(14 credit point for training in Neurosurgery Department)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Neurosurgery Department	4	Neurosurgery Department	<ul style="list-style-type: none"> ➤ Practice with clinical cases in Neurosurgery Department for at least one month and interpretation of their different radiologic patterns (in CXR & CT brain, MRI brain) and related laboratory investigation. ➤ Attendance of clinical rounds with staff ➤ Log of cases as mentioned below ➤ Procedures log as mentioned below 	28.6%
	5		<ul style="list-style-type: none"> ➤ Night shift (From 2 pm to 8 am) at least 1/week for 10 weeks 	35.7%
	2		<ul style="list-style-type: none"> ➤ Attendance of at least one day/week in the Outpatient clinic (4 hours /day) for 12 weeks 	14.3%
	2		<ul style="list-style-type: none"> ➤ Practice in the operative theatre at least once /week for 12 weeks 	14.3%
	1		<ul style="list-style-type: none"> ➤ Attendance of at least 60% of the clinical seminars ➤ Presentation of at least 1 case in the seminar 	7.1 %
Student signature			Principle coordinator Signature	Head of the department signature



Neurosurgery cases log during year 1

Case (assist-operate)	Number
Head trauma	20 cases
Neural tube defect	20 cases
Congenital Hydrocephalus	20 cases
Craniosostenosis	2 cases
Spinal cord compression	10 cases
Infection of brain- spine	5 cases
Brain tumour	5 cases

Procedures during year 1

Requirements

Order/ interpret

- X- ray skull-neck-spine (20)
- CT-brain—spine (10)
- MRI- brain-spine (5)

Prescribe

- Lumbar puncture (5)
- Ventricular tapping (5)

Prescribe /perform Under supervision

- Lumbar puncture (5)
- Ventricular tapping (5)



الأماكن التي تدرب بها

[illegible]



Course 7: Neurosurgery

Requirements

- **Credit points:** 24 credit point for didactic (lectures, seminars, tutorial etc) and 110 point for training (14 credit point for year 1 and 96 credit point during year 2 and 3).
 - Minimal rate of attendance 80% of training and didactic
- Practice with clinical cases for at least one year and half in the department including interpretation of their different radiologic patterns (in CXR & CT brain, MRI brain) and related laboratory investigation.

Neurosurgery cases log

Case (assist-operate)	Number
Head trauma	80 cases
Neural tube defect	80 cases
Congenital Hydrocephalus	80 cases
Craniostenosis	8 cases
Spinal cord compression	40 cases
Infection of brain- spine	15 cases
Brain tumor	15 cases



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Year 2

(12 credit point for didactic in 50% of neurosurgery course including their formative assessment)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
50% of Neurosurgery course	12 Credit point	Neurosurgery department	Year 2	100%
	7 CP		Topics and attendance 70 hour attendance or 35 hours active participation by the candidates One lecture /week	58.3%
	3		-Head Injuries.	
	2		-Neural tube defect	
	2		- Congenital hydrocephalus	
	3.25 CP		Seminars 2 hours- once / week for at least 8 month ➤ Attendance of at least - 80% of the clinical seminars for residence ➤ Attendance of at least 70% of the clinical seminars for the external ➤ Presentation of at least 1 time in the seminar	27.2%
	1 CP		Conference or workshop	8.3%
	0.75 CP		Formative assessment(MCQ-)	6.2%
Student signature			Principle coordinator Signature	Head of the department signature



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Year 2 (48 credit point for training in Neurosurgery including mini clinical exam)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Neurosurgery	48	Neurosurgery	Year 2	50% of the training in (Second part)
Neurosurgery	16		<ul style="list-style-type: none"> ➤ Practice with clinical cases in Neurosurgery Department for at least 4 month and interpretation of their different radiologic patterns (in CXR & CT brain, MRI brain) and related laboratory investigation. ➤ Attendance of clinical rounds with staff ➤ Log of cases as mentioned below Procedures log as mentioned below 	33.3%
	8		<ul style="list-style-type: none"> ➤ Night shift (From 2 pm to 8 am) 1 night shift /week for at least 16 week 	16.7%
	2		<ul style="list-style-type: none"> ➤ Attendance of at least one day/ week in the Outpatient clinic (3 hours/day) for 20 week 	4.2%
	10		<ul style="list-style-type: none"> ➤ Attendance of at least 2.5 month in the emergency and trauma unit of neurosurgery department 	20.8%
	6		<ul style="list-style-type: none"> ➤ Attendance and practice of at least 1 day / week for 6 months in the operative theatre 	12.5%
	2		<ul style="list-style-type: none"> ➤ Attendance of at least 60% of clinical rounds of staff groups (2 hours/day for 30 week) 	4.2%
	4		Mini clinical exam	8.3%
Student signature			Principle coordinator Signature	Head of the department signature



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Year 3

(12 credit point for didactic in 50% of neurosurgery course including their formative assessment)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
50% of Neurosurgery course	12 Credit point	Neurosurgery department	Year 2	100%
	7 CP		Topics and attendance 70 hour attendance or 35 hours active participation by the candidates One lecture /week	58.3%
	2		Spinal cord compression	
	2		- CNS infection	
	3		- CNS neoplasm	
	3.25 CP		Seminars 2 hours- once / week for at least 8 month ➤ Attendance of at least - 80% of the clinical seminars for residence ➤ Attendance of at least 70% of the clinical seminars for the external ➤ Presentation of at least 1 time in the seminar	27.2%
	1 CP		Conference or workshop	8.3%
	0.75 CP		Formative assessment	6.2%
Student signature			Principle coordinator Signature	Head of the department signature



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Year 3 (48 credit point for training in Neurosurgery including mini clinical exam)

Clinical training	Credit points	Responsible department	Attendance	Percentage of Achieved points
Clinical training in Neurosurgery	48	Neurosurgery	Year 2	50% of the training in (Second part)
Neurosurgery	16		<ul style="list-style-type: none"> ➤ Practice with clinical cases in Neurosurgery Department for at least 4 month and interpretation of their different radiologic patterns (in CXR & CT brain, MRI brain) and related laboratory investigation. ➤ Attendance of clinical rounds with staff ➤ Log of cases as mentioned below Procedures log as mentioned below 	33.3%
	8		<ul style="list-style-type: none"> ➤ Night shift (From 2 pm to 8 am) 1 night shift /week for at least 16 week 	16.7%
	2		<ul style="list-style-type: none"> ➤ Attendance of at least one day/ week in the Outpatient clinic (3 hours/day) for 20 week 	4.2%
	10		<ul style="list-style-type: none"> ➤ Attendance of at least 2.5 month in the emergency and trauma unit of neurosurgery department 	20.8%
	6		<ul style="list-style-type: none"> ➤ Attendance and practice of at least 1 day / week for 6 months in the operative theatre 	12.5%
	2		<ul style="list-style-type: none"> ➤ Attendance of at least 60% of clinical rounds of staff groups (2 hours/day for 30 week) 	4.2%
	4		Mini clinical exam	8.3%
Student signature			Principle coordinator Signature	Head of the department signature



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A-Clinical Rotation, Outpatient clinic, Case log and Night Shift

Clinical Rotation

Duration from -to	Location	Signature of supervisor



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Clinical Rotation

Duration/Date from -to	Location	Signature of supervisor

[illegible]

[illegible]

[illegible]

A- Plan and carry out

B- Carry out

C- Carry out under supervision

[illegible]

* Level of participation
A- Plan and carry out
B- Carry out
C- Carry out under supervision

[illegible]

A- Plan and carry out

B- Carry out

C- Carry out under supervision



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Clinical case log

Date	Diagnosis of case	*Level of participation	Location	Signature of supervisor

- * Level of participation
A- Plan and carry out
B- Carry out
C- Carry out under supervision



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Clinical case log

Date	Diagnosis of case	*Level of participation	Location	Signature of supervisor

- * Level of participation
 A- Plan and carry out
 B- Carry out
 C- Carry out under supervision

[illegible]

[illegible]

[illegible]



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Night Shift

Date	Signature of supervisor		Date	Signature of supervisor



Requirements: - Attendance of at least 80% of the clinical seminars

2-A: Attendance

[illegible]



2-A: Attendance

[illegible]



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2-A: Attendance

Date	Attendance	Topic	Signature



2-B: Case presentation /Topic presentation

[illegible]



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3- Post graduate teaching

3-A: lectures

Date	Title of lecture	Signature of Staff Member

[illegible]

[illegible]



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4-Academic activities

Journal club, conference, workshop

Activity	Your role **	Date	Signature of supervisor

** Your role:-

A- Attendance

B- Organization

C- Presentation



5- Procedures log book

Requirements

Order/ interpret

- X- ray skull-spine (80)
- CT-brain—spine (40)
- MRI- brain-spine (20)

Prescribe

- Lumbar puncture (15)
- Ventricular tapping (15)

Prescribe /perform Under supervision

- Lumbar puncture (15)
 - Ventricular tapping (15)
-



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5- Procedures log book

✕ ray skull

NO.	Level of competency*	Location	Signature

* Level of competency

A- Independent performance

B- Performance under supervision

C- Observed



•X ray skull

[illegible]

C- Observed



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5- Procedures log book

°X ray skull

NO.	Level of competency*	Location	Signature

* Level of competency

A- Independent performance

B- Performance under supervision

C- Observed



5- Procedures log book

•X ray skull

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



5- Procedures log book

•X ray Spine

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



5- Procedures log book

•X ray Spine

[illegible]

* Level of competency

A- Independent performance

B- Performance under supervision

C-Observed



5- Procedures log book

•X ray Spine

[illegible]

* Level of competency

A- Independent performance

B- Performance under supervision

C-Observed



5- Procedures log book

•X ray Spine

[illegible]

* Level of competency

A- Independent performance

B- Performance under supervision

C-Observed



5- Procedures log book

CT brain, Spine

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



5- Procedures log book

CT brain, Spine

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



5 Procedures log book

MRI brain, Spine

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



Lumbar puncture (PERFORM UNDER SUPERVISION)

[illegible]

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



5- Procedures log book

Ventricular tapping (PERFORM UNDER SUPERVISION)

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



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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)
Perform practice-based improvement activities using a systematic methodology (share in audits and risk management activities and use logbooks).								
Appraises evidence from scientific studies.								
Conduct epidemiological studies and surveys.								
Perform data management including data entry and analysis and using information technology to manage information, access on-line medical information; and support their own education.								



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General skills	could not judge (0)	strongly disagree(1)	<div>↩</div> <div>(2) (3)</div>		<div>↩</div> <div>(4) (5)</div>		<div>↩</div> <div>(6) (7)</div>		strongly agree (7)
Facilitate learning of students other health care professionals including their evaluation and assessment.									
Maintain therapeutic and ethically sound relationship with patients.									
Elicit information using effective nonverbal, explanatory, questioning, and writing skills.									
Provide information using effective nonverbal, explanatory, questioning, and writing skills.									
Work effectively with others as a member 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, business practices.									



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General skills	could not judge (0)	strongly disagree(1)	<div>↩</div> <div>(2) (3)</div>		<div>↩</div> <div>(4) (5)</div>		<div>↩</div> <div>(6) (7)</div>		strongly agree (7)
Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.									
Work effectively in relevant health care delivery settings and systems including good administrative and time management									
Practice cost-effective health care and resource allocation that does not compromise quality of care.									
Assist patients in dealing with system complexities.									



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Elective Course 1

Requirements

● **Credit points:** 2 credit point.

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

● The student choose one of theses courses

- Medical statistics.
- Evidence based medicine.
- Medicolegal Aspects and Ethics in Medical Practice and Scientific Research
- Quality assurance of medical education.
- Quality assurance of clinical practice.
- Hospital management



Name of the elective course: -----

Elective Course Lectures

[illegible]

[illegible]



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Formative assessment MCQ and clinical examination

Exam	Score	Grade*	Date	Signature

*Degree

A- Excellent

B- Very good

C- Good

D- Pass

E- Bad



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الرسائل العلمية

عنوان الرسالة

عربي :

انجليزي :

المشرفون :

1-

2-

3-

4-

تاريخ القيد لدرجة : / /

تاريخ التسجيل الموضوع :

المتابعة الدورية :

التاريخ	ما تم انجازه من بروتوكول البحث	المتبقي	توقيع المشرفين



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Declaration

Course Structure Mirror	Responsible (Course) Coordinator Name:	Signature	Date
First Part			
Course 1			
Course 2			
Course 3			
Course 4			
Course 5			
Course 6			
Second Part			
Course (7)			
- Elective Course (s) Certificate (s) Dates:			
- Master Degree Thesis Acceptance Date:			
- Fulfilment of required credit points prior to final examination			
Neurosurgery M Sc Degree Principle Coordinator:			
Date approved by Neurosurgery Department Council:			

يعتمد ،
رئيس القسم
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