

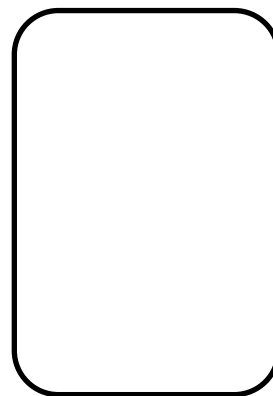
# Master Degree of Emergency medicine Log Book



" كراسة الأنشطة "  
اللازمة لحصول المتدرب على  
درجة الماجستير في طب الطوارئ  
2022-2023

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## **Personal Data:**

Name: ..... Date of birth: ...../...../.....

Address: .....

Place of work: .....

Telephones: ..... Mobile phone(s): .....

Mail Address: ..... E mail: .....

<i>Name of hospital</i>	<i>Period of work</i>	<i>Hospital director signature</i>

## **Academic Information**

- **M.B.B.Ch:**

Date ...../...../..... University..... Grade .....

- **Master degree:**

Date ...../...../..... University..... Grade .....

- **Grade of General Surgery course on graduation** .....

- **Others:**

Date ...../...../..... University .....

Date ...../...../..... University .....

Date ...../...../..... 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 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 ...etc."

## 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
- Quiseses

## **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 emergency medicine and enabling the candidates of making appropriate referrals to a sub-specialist.

1/2 Provide candidates with fundamental knowledge and skills of emergency medicine as regards; dealing with equipments, techniques, indications, contraindications and training skills of different emergency situations.

1/3 To introduce candidates to the basics of scientific medical research.

1/4 Enable candidates to start professional careers as specialists in Egypt but recognized abroad.

1/5 To enable candidates to understand and get the best of published scientific research and do their own.

## **Curriculum Structure:**

Duration of program 36 months

## **Program Structure**

### **Program Time Table**

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 MSc 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.***

# First Part

## **Academic activities of basic sciences**

Practice with academic and clinical departments during year 1

- Applied Anatomy
- Pathology
- Applied physiology
- Forensic medicine and toxicology
- Pharmacology
- microbiology
- Clinical pathology
- Diagnostic radiology



# Anatomy

## Requirements

● Credit points: 1 credit point.

Name of the course	Credit points	Responsible department	Attendance	Percentage of achieved points
Anatomy	0.2	Anatomy	<b>2 hours</b> Surface anatomy of The human body	
	0.1		<b>1 hour</b> Nervous system (Nerve supply of body wall and limbs, dermatomes, myotomes, nerve supply of head and neck, autonomic nervous system, sympathetic nervous system, parasympathetic nervous system, cranial autonomic ganglia)	
	0.1		<b>1 hour</b> Central Nervous System (Brain, Mid Brain, Brain Stem, Cerebellum and Spinal Cord)	
	0.1		<b>1 hour</b> Head and Neck (Skull and Cranial Cavity, Face, Mouth, Pharynx, Larynx, Ear, Neck, Vessels, Cranial Nerves, Vertebral Column , Spinal Canal and the Eye)	
	0.1		<b>1 hour</b> Upper Limb (Pectoral Girdle, Breast and Axilla, Scapular Region, Arm, Forearm, Hand, Joints, Vessels and Nerves)	
	0.1		<b>1 hour</b> Lower Limb ( Front of the Thigh, Adductor Compartment, Gluteal Region, Hamstring Compartment, Popliteal Fossa, Front of the leg, Dorsum of the foot, Peroneal Compartment, Calf, Sole, Joints, Vessels and Nerves)	

	0.1		<b><i>1 hour</i></b> Thorax ( chest wall and diaphragm, Mediastinum, Heart and Great Vessels, Airways and Lungs)	
	0.2		<b><i>2 hours</i></b> Abdomen and Pelvis (Abdominal Wall and Peritoneum, Gut, Liver, Spleen, Pancreas, Kidneys, Ureters, Bladder and Urethra, Reproduc-tive Organs, Joints of Pelvis, related Vessels and related Nerves)	
<b><i>Student signature</i></b>			<b><i>Principle coordinator signature</i></b>	<b><i>Head of the department signature</i></b>

## Anatomy (Lectures)

[illegible]

# Pathology

## Requirements

🔴 Credit points: 1 credit point.

Name of the course	Credit points	Responsible department	Attendance	Percentage of achieved points
Pathology	0.1	Pathology	<i>1 hour</i> Inflammation	10 %
	0.1		<i>1 hour</i> Repair by healing, scar formation, and fibrosis	10 %
	0.1		<i>1 hour</i> Cutaneous wound healing	10 %
	0.1		<i>1 hour</i> Fibrosis	10%
	0.1		<i>1 hour</i> Edema	10%
	0.1		<i>1 hour</i> Hyperemia and congestion	10%
	0.1		<i>1 hour</i> Hemorrhage and Hemostasis	10%
	0.1		<i>1 hour</i> Thrombosis and Embolism	10%
	0.1		<i>1 hour</i> Infarction and atherosclerosis	10%
	0.1		<i>1 hour</i> Shock	10%
<i>Student signature</i>			<i>Principle coordinator signature</i>	Head of the department signature

# Pathology (Lectures)

[illegible]

# Applied physiology

## Requirements

🔴 Credit points: 1.5 credit point.

Name of the course	Credit points	Responsible department	Attendance	Percentage of achieved points
Applied physiology	0.1	Physiology	<i>1 hour</i> Haemostasis	6.7 %
	0.1		<i>1 hour</i> Physiological principles of cardiac cycle and cardiac conduction	6.7 %
	0.1		<i>1 hour</i> Regulation of arterial blood pressure	6.7 %
	0.1		<i>1 hour</i> Shock	6.7 %
	0.1		<i>1 hour</i> Pulmonary circulation	6.7 %
	0.1		<i>1 hour</i> Coronary and cerebral circulation	6.7 %
	0.1		<i>1 hour</i> Tissue fluid formation and edema	6.7 %
	0.1		<i>1 hour</i> Water balance	6.7 %
	0.1		<i>1 hour</i> Electrolyte balance	6.7 %
	0.1		<i>1 hour</i> Acid-base balance	6.7 %
	0.1		<i>1 hour</i> Ventilation and perfusion relationship	6.7 %
	0.1		<i>1 hour</i> Body temperature regulation	6.7 %
	0.1		<i>1 hour</i> Hypothalamic pituitary axis	6.7 %
	0.1		<i>1 hour</i> Physiology of liver and pancreas	6.7 %
	0.1		<i>1 hour</i> Physiology of renal system	6.7 %
<i>Student signature</i>			<i>Principle coordinator signature</i>	signature

## Applied physiology (Lectures)

[illegible]

# Forensic medicine and toxicology

## Requirements

🔴 Credit points: 1.5 credit point.

Name of the course	Credit points	Responsible department	Attendance	Percentage of achieved points
Forensic medicine and toxicology	0.3	Forensic medicine	<b>3 hours</b> Writing medical reports	16.7 %
	0.2		<b>2 hours</b> Medicolegal aspects of emergency medicine	16.7 %
	0.2		<b>2 hours</b> Violation of human rights	16.7 %
	0.2		<b>2 hours</b> Management of acute poisoning	16.7 %
	0.3		<b>3 hours</b> Environmental toxicology	16.7 %
	0.3		<b>3 hours</b> Drug poisoning	16.7 %
<i>Student signature</i>			<i>Principle coordinator signature</i>	signature



## Forensic medicine and toxicology (Lectures)

[illegible]

# Pharmacology

## Requirements

🔴 Credit points: 1.5 credit point

Name of the course	Credit points	Responsible department	Attendance	Percentage of achieved points
Pharmacology	0.2	Pharmacology	<b>2 hours</b> Introduction to clinical pharmacology	25 %
	0.2		<b>2 hours</b> The clinical pharmacology of emergency cardiac drugs (drugs used in arrest, inotropes and other emergency cardiac medications)	
	0.1		<b>1 hour</b> Antiarrhythmic medications	25 %
	0.2		<b>2 hours</b> Antihypertensive medications	
	0.2		<b>2 hour</b> The pharmacology of (antiemetics, antidiarrheals, antiulcer medications and anti-spasmodics)	25 %
	0.2		<b>2 hours</b> The pharmacology of drugs used in anticoagulation, thrombolysis	
	0.2		<b>2 hour</b> Principles of antimicrobial therapy	
	0.1		<b>1 hour</b> Anticonvulsants (phenytoin, carbamazepine, valproate)	25 %
	0.1		<b>1 hour</b> The pharmacology of steroids	
<i>Student signature</i>			<i>Principle coordinator signature</i>	Head of the department signature

## Pharmacology (Lectures)

[illegible]

# Microbiology

## Requirements

🔴 Credit points: 1.5 credit point.

Name of the course	Credit points	Responsible department	Attendance	Percentage of achieved points
Microbiology	0.2	Microbiology	<b>2 hours</b> General features of microbial activity and modes of transmission	25 %
	0.2		<b>2 hours</b> Viral and bacterial infections and mechanism of resistance to antimicrobial therapy	
	0.2		<b>2 hours</b> Features of other infectious diseases fungi, protozoa, helminths	25 %
	0.1		<b>1 hour</b> Hospital infection control	
	0.2		<b>2 hours</b> Antimicrobial chemotherapy	25 %
	0.1		<b>1 hour</b> Skin and soft tissue infection	
	0.2		<b>2 hours</b> Bacteraemia and septicaemia	25 %
	0.2		<b>2 hours</b> Sterilization disinfection and antisepsis	
	0.1		<b>1 hour</b> Lower respiratory tract infection	
<i>Student signature</i>			<i>Principle coordinator signature</i>	Head of the department signature

# Microbiology (Lectures)

[illegible]

# Clinical pathology

## Requirements

🔴 Credit points: 3 credit point.

Name of the course	Credit points	Responsible department	Attendance	Percentage of achieved points
Clinical pathology	0.2	Clinical pathology	<i>2 hours</i> Anemia	
	0.2		<i>2 hours</i> Disorders of white blood cells	
	0.3		<i>3 hours</i> Disorders of hemostasis	
	0.2		<i>2 hour</i> Blood group system	
	0.3		<i>3 hours</i> Transfusion medicine	
	0.2		<i>2 hour</i> Liver function tests	
	0.2		<i>2 hours</i> Kidney function tests	
	0.2		<i>2 hours</i> Glucose tolerance test	
	0.3		<i>3 hour</i> Acute abdomen markers	
	0.2		<i>2 hour</i> CSF examination	
	0.2		<i>2 hour</i> Urine analysis	
	0.5		<i>Formative assessment</i>	
<i>Student signature</i>			<i>Principle coordinator signature</i>	Head of the department signature

# *Clinical pathology*

*(5 credit points for training)*

<i>Clinical training</i>	<i>Credit points</i>	<i>Responsible department</i>	<i>Attendance</i>	<i>Percentage of Achieved points</i>
Clinical training emergency department	5	Internal medicine department	➤ Practice in emergency lab. and blood bank for 10 weeks with night shifts (1 per week) -Log of 200 cases	
Student signature			Principle coordinator Signature	Head of the department signature

# Diagnostic Radiology

## Requirements

🔴 Credit points: 3 credit point.

Name of the course	Credit points	Responsible department	Attendance	Percentage of achieved points
Diagnostic radiology	0.2	Diagnostic radiology	<b>2 hours</b> Basic principles of diagnostic imaging	
	0.2		<b>2 hours</b> Imaging features of cardiac emergencies	
	0.2		<b>2 hours</b> Imaging features of chest emergencies	
	0.3		<b>3 hours</b> Imaging features of musculoskeletal emergencies	
	0.2		<b>2 hour</b> Imaging features of urological emergencies	
	0.3		<b>3 hours</b> Imaging features of abdominal emergencies	
	0.2		<b>2 hours</b> Imaging features of obstetric emergencies	
	0.2		<b>2 hours</b> Head and neck imaging	
	0.2		<b>2 hour</b> Indications and further lines of imaging assessment	
	0.2		<b>2 hours</b> Fast US	
	0.2		<b>2 hours</b> CT brain	
	0.2		<b>2 hour</b> CT chest	
	0.4		<b>Formative assessment</b>	
<i>Student signature</i>			<i>Principle coordinator signature</i>	Head of the department signature



# *Diagnostic Radiology*

*(5 credit points for training)*

<i>Clinical training</i>	<i>Credit points</i>	<i>Responsible department</i>	<i>Attendance</i>	<i>Percentage of Achieved points</i>
Clinical training emergency department	5	Internal medicine department	➤ Practice in diagnostic radiology department for 10 weeks with night shifts (1 per week) -Log of 200 cases	
Student signature			Principle coordinator Signature	Head of the department signature

## Clinical pathology (Lectures)

[illegible]

# Diagnostic radiology (Lectures)

[illegible]

# *Emergency medicine (1)*

*Anesthesia and Intensive Care Medicine,  
Cardio-pulmonary Resuscitation and  
Advanced Trauma Life Support*

**Unit (Module) 1**  
**(Anesthesia and intensive care Medicine)**  
**Rotation / attendance proof**  
**الأماكن التي تدرب بها**

أسم المستشفى التي تدرب بها	توقيع رئيس القسم	توقيع مدير المستشفى

### Requirements

- **Credit points:** 10 credit point for didactic (lectures, seminars, tutorial) and 48 point for training.
- Minimal rate of attendance 80% of training and didactic

# *Year 1*

*(8 credit point for training)*

Name of the course	Credit points	Responsible department	Attendance	Percentage of achieved points
Anesthesia	2	Anesthesia	<ul style="list-style-type: none"> <li>- Practice with anesthesia of at least 2 week in each of operative lists in general surgery, orthopedic surgery, and gynecologic surgery.</li> <li>- Log of cases : 10 cases in each department</li> <li>- Log of procedure as mentioned below</li> </ul>	
	2		<ul style="list-style-type: none"> <li>- Night shift (From 2 pm to 8 am) 2 night shift /week for 4 weeks in trauma department, obstetric emergency department, general surgery department</li> <li>- Log of cases : 20 cases</li> </ul>	
	1		<ul style="list-style-type: none"> <li>- Attendance of at least 2 weeks in the anesthesia clinic (3 hours/day)</li> </ul>	
	1		<ul style="list-style-type: none"> <li>- Cardiopulmonary resuscitation course</li> </ul>	
	1		<ul style="list-style-type: none"> <li>- Trauma advance life support course</li> </ul>	
	0.5		<ul style="list-style-type: none"> <li>- Attendance of at least 30% of clinical rounds(2 hours /week for 7week)</li> </ul>	
	0.5		<ul style="list-style-type: none"> <li>- Formative assessment</li> </ul>	
<i>Student signature</i>			<i>Principle coordinator signature</i>	Head of the department signature

## Anesthesia log of cases

<i>Anesthesia subspecialty</i>	<i>Number of cases</i>
General surgery	10
Orthopedic surgery	10
Gynecologic surgery	10

## Procedure log of:

<i>Procedure</i>	<i>Number of cases</i>
• Gaseous induction	5
• GA mask	5
• Subarachnoid (spinal)	10
• Nasal intubation	5
• GA with endotracheal tube and IPPV	10
• GA with LMA and spontaneous ventilation	7
• GA with endotracheal tube and spontaneous ventilation	10
• GA LMA IPPV	10
• Epidural block	2
• Caudal block	2
• Combined spinal-Epidural (CSE) (5)	2
• Double luminal tube (5)	2
• CVP insertion (5)	2
• Arterial line insertion (5)	2
• Hand block (5)	2
• Fiber optic intubation (5)	2
• Fiber optic awake (5)	2
• Brachial super-scapular block	2
• Brachial maxillary block	As logged
• Femoral block	As logged
• Brachial intra-Scapular block	As logged
• Ilio-inguinal block	As logged

# Year 2

(5 credit points for didactic)

<i>Name of the course</i>	<i>Credit points</i>	<i>Responsible department</i>	<i>Attendance</i>	<i>Percentage of Achieved points</i>
<b>Unit 1 Anesthesia and perioperative medicine</b>	5	Anesthesia	Year 2	<b>57.66% of the didactics of Unit 1</b>
	<b>3.5</b>		<b>Topics and attendance</b>	<b>70.1 %</b>
	1		10 hours Preoperative Assessment and Management Anesthesia for Healthy Patients Patient positioning Airway management	
	0.5		5 hours <u><b>Principles of Pharmacokinetics and Pharmacodynamics:</b></u> Pharmacology of Intravenous Anesthetics Pharmacology of Opioid Analgesics Total Intravenous Anesthesia Cardiovascular Drugs Pharmacology of Local Anesthetics	
	1		10 hours <u><b>Anesthesia Drugs and Drug Delivery Systems</b></u> Mechanisms of General Anesthetic Action Pharmacology of Inhalational Anesthetics and muscle relaxants Anesthesia Delivery System	
	0.2		2 hours <u><b>Preoperative Evaluation of the Anesthesia Patient</b></u>	
	0.5		5 hours <u><b>Monitoring the Anesthesia Patient</b></u> Hemodynamic Monitoring Transesophageal Echocardiography Monitoring Respiratory system Neurologic Monitoring Monitoring of Neuromuscular Blockade Monitoring of Perioperative Electrolyte	
	0.3		3 hours <u><b>Post-operative care</b></u> Recovery of the Healthy Patient Postoperative Complications Management of Acute Postoperative Pain	



	0.5		<u>Seminars</u> Attendance of at least 50% of the clinical seminars Presentation of at least 1 time in the seminar	14 %
	0.5		<b>Conference or workshop</b>	9.4%
	0.5		<b>Formative assessment</b>	6.5%
Student signature			Principle coordinator Signature	Head of the department signature

# Year 2

(20 credit point for training)

<i>Clinical training</i>	<i>Credit points</i>	<i>Responsible department</i>	<i>Attendance</i>	<i>Percentage of Achieved points</i>
Clinical training in Anesthesia department	7	Anesthesia department	<ul style="list-style-type: none"> <li>➤ Practice with anesthesia of at least 7 weeks</li> <li>- Log of cases : as mentioned below</li> <li>- Log of procedure as mentioned below</li> </ul>	26.5%
	8		<ul style="list-style-type: none"> <li>➤ Night shift (From 2 pm to 8 am) 1 night shift /week for 16 weeks (practice with anesthesia management in trauma department, obstetric emergency department, general surgery department)</li> <li>➤ Log of cases : 80 cases</li> </ul>	38.3%
	2		➤ Attendance of at least 4 weeks in the anesthesia clinic (3 hours/day)	11.8%
	1		➤ Attendance of at least 30% of clinical rounds (2 hours /week for 15 week)	8.8%
	1		➤ Attend clinical teaching and clinical teaching for students 2 hours /week for 15 week	8.8%
	1		➤ Formative assessment	5.8%
Student signature			Principle coordinator Signature	Head of the department signature

## Anesthesia log of cases

<i>Anesthesia subspecialty</i>	<i>Number of cases</i>
General surgery	5
Orthopedic surgery	5
Uro-genital surgery	5
Plastic surgery	5
Gynecologic surgery	5
ENT	5
Pediatric surgery	5
Ophthalmology	5
Vascular surgery	5

## Procedure log of:

<i>Procedure</i>	<i>Number of cases</i>
• Gaseous induction	7
• GA mask	7
• Subarachnoid (spinal)	10
• Nasal intubation	7
• GA with endotracheal tube and IPPV	10
• GA with LMA and spontaneous ventilation	7
• GA with endotracheal tube and spontaneous ventilation	10
• GA LMA IPPV	3
• Epidural block	2
• Caudal block	2
• Combined spinal-Epidural (CSE) (5)	2
• Double luminal tube (5)	2
• CVP insertion (5)	2
• Arterial line insertion (5)	2
• Hand block (5)	2
• Fiber optic intubation (5)	2
• Fiber optic awake (5)	2
• Brachial super-scapular block	2
• Brachial maxillary block	As logged
• Femoral block	As logged
• Brachial intra-Scapular block	As logged
• Ilio-inguinal block	As logged

# Year 3

(5 credit points for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Unit 1 anesthesia and peri-operative medicine</b>	5	Anesthesia department	Year 2	<b>42.34% of the didactics of Unit 1</b>
	<b>3.5</b>		<b>Topics and attendance</b>	<b>64.70%</b>
	0.5		5 hours <u><b>Regional Anesthesia</b></u> Neuraxial Anesthesia Paravertebral Anesthesia Peripheral Nerve Blocks Complications of Regional Anesthesia and their management	
	0.3		3 hours <u><b>Some consideration for anesthesia care</b></u> Anaphylactic Reactions and Anesthesia Thermoregulation, and Perioperative Hypothermia	
	2.7		27 hours <u><b>ICU lectures</b></u> Physiologic response to trauma Evaluation of the trauma Patient and Patient with Multiple Organ Dysfunction Syndrome Monitoring and Transport of the Critically Ill Patient Sedation muscle relaxants and Pain Management in the ICU Hemodynamic Support of the Critically Ill Patient DVT and GIT prophylaxis in ICU Psychiatric problems in ICU Shock Respiratory failure Mechanical Ventilation Nutrition & Malnutrition in the Critically Ill Patient Disorders of Fluid Volume Disorders of Water and sodium Balance Disorders of Potassium Balance, Phosphorus, Magnesium and Calcium Balance Acid-Base Homeostasis & Disorders Principles of antibiotic use in ICU Cardiac problems in ICU Postoperative Care of the Noncardiac Surgical	

			ICU Patient	
	0.5		<ul style="list-style-type: none"> <li>➤ Attendance of at least 50% of the clinical seminars</li> <li>➤ Presentation of at least 1 time in the seminar</li> </ul>	17.6%
	0.5		<b>Conference or workshop</b>	11.8%
	0.5		<b>Formative assessment</b>	5.9%
Student signature			Principle coordinator Signature	Head of the department signature

# Year 3

(5 credit points for training)

<i>Clinical training</i>	<i>Credit points</i>	<i>Responsible department</i>	<i>Attendance</i>	<i>Percentage of Achieved points</i>
Clinical training in Anesthesia department	1	Anesthesia department	<ul style="list-style-type: none"> <li>➤ Practice with anesthesia of at least 2 weeks</li> <li>- Log of cases : as mentioned below</li> <li>- Log of procedure as logged of</li> </ul>	24.1%
	1		<ul style="list-style-type: none"> <li>➤ Night shift (From 2 pm to 8 am) 1 night shift /week for 20 weeks in trauma department, obstetric emergency department, general surgery department</li> <li>➤ Log of cases : 110 cases</li> </ul>	34.5%
	1.5		<ul style="list-style-type: none"> <li>➤ Practice with clinical cases for at least 3 weeks in the ICU</li> <li>➤ Log of cases: as mentioned below</li> <li>➤ Procedure log: as mentioned below</li> </ul>	13.8 %
	1		<ul style="list-style-type: none"> <li>➤ Night shift (From 2 pm to 8 am ) in ICU</li> <li>➤ 1 night shift/week for 2 weeks</li> </ul>	10.3%
	0.5		➤ Formative assessment	7 %
Student signature			Principle coordinator Signature	Head of the department signature

### Anesthesia cases log of

<b>Anesthesia subspecialty</b>	<b>Number of cases</b>
General surgery	2
Orthopedic surgery	2
Gynecologic surgery	2
Pediatric surgery	2

<b>ICU clinical case log</b>	
Respiratory failure	2
Ventilator associated pneumonia (VAP)	3
shock	3
Hypo and hypernatremia	3
Hypo and hyperkalemia	3
Hypo and hyperglycemia	2
<b>Metabolic acidosis (lactic, DKA.....)</b>	3
<b>Metabolic alkalosis</b>	3
Calcium, phosphate, magnesium disturbances	2
coma	3
Subarachnoid hemorrhage	3
Traumatic head and cord injuries	5
Pressure sores	1
Multiple trauma	3
Chest (tension pneumothorax, flail chest, hemothorax, cardiac tamponade, valve or	2
Neurosurgical procedures	1



<i>Procedures' log</i>		
C	Basic airway techniques	2
C	Bag and mask ventilation	2
C	Endotracheal intubation (oral-nasal)	3
C	Mechanical ventilation primary settings	3
C	Weaning from mechanical ventilation	2
OA	Surgical airway techniques	
C	Tracheal suction	5
C	Oxygen delivery techniques	5
C	CPR	2
C	Arterial line insertion	5
C	IV infusion sets handling and troubleshootings	5
C	Central venous line insertion	2
C	CVP measurement	5
C	Clinical assessment of vital signs	10
C	Non invasive monitoring	10
C	Invasive monitoring	5
C	Bladder catheterization	5
C	Nasogastric tube insertion	5
C	ABGs interpretation	10
C	ECG interpretation	10
O	CT brain	5
O	CT chest and abdomen	2
O	MRI brain and spinal cord	2
C	Mechanical Ventilation curves	2

[illegible]

## Anesthesia clinic

[illegible][illegible]

## Clinical rounds log

[illegible]

## Night Shift

[illegible][illegible]

## Clinical Seminars log book

[illegible]

# *Emergency medicine (2)*

# Year 1

(3 credit points for training)

<i>Clinical training</i>	<i>Credit points</i>	<i>Responsible department</i>	<i>Attendance</i>	<i>Percentage of Achieved points</i>
Clinical training emergency department	2.5	Internal medicine department	➤ Practice with medical emergency cases in medical emergency hospital reception (one shift per week)for 5 weeks - Log of 50 cases should cover 80% of cases in the list below	
	0.5		➤ Formative assessment	
Student signature			Principle coordinator Signature	Head of the department signature



# Year 2

(3 credit points for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Emergency medicine (2)</b>	3	Internal medicine department	Year 2	<b>42.34% of the didactics of Unit 1</b>
	<b>2.5</b>		<b>Topics and attendance</b>	<b>64.70%</b>
	0.4		4 hours <u><b>Hepatic and GIT emergencies</b></u> GIT bleeding Liver cell failure	
	0.4		4 hours <u><b>Hematological emergencies</b></u> Blood product transfusion Deep venous thrombosis	
	0.4		4 hours <u><b>Infectious emergencies</b></u> General approach for identification and management of infections in the ER The febrile child in the ER Principles of infection control in ER	
	0.2		2 hours Oncological emergencies	
	0.4		4 hours <u><b>Endocrinologic emergencies</b></u> Hypoglycemia Diabetic ketoacidosis and hyperglycemia Other endocrinologic emergencies	
	0.3		3 hours <u><b>Renal emergencies</b></u> Acute renal failure Urinary tract infections	
	0.4		4 hours <u><b>Toxicology</b></u> General management of poison patients Carbon monoxide poisoning Common poisons	
	0.3		<b>Conference or workshop</b>	
	0.2		<b>Formative assessment</b>	
Student signature			Principle coordinator Signature	Head of the department signature

# Year 2

(14 credit points for training)

<i>Clinical training</i>	<i>Credit points</i>	<i>Responsible department</i>	<i>Attendance</i>	<i>Percentage of Achieved points</i>
Clinical training emergency department	13	Internal medicine department	➤ Practice with medical emergency cases in medical emergency hospital reception (one shift per week) for 26 weeks -Log of 200 cases should cover 80% of cases in the list below	
	1		➤ Formative assessment	
Student signature			Principle coordinator Signature	Head of the department signature

# Year 3

(4 credit points for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Emergency medicine (2)</b>	3	Coronary, chest, neuropsychiatry and pediatric departments	Year 2	<b>42.34% of the didactics of Unit 1</b>
	<b>3.2</b>		<b>Topics and attendance</b>	<b>64.70%</b>
	0.8		8 hours <u><b>Cardiac emergencies</b></u> Types of cardiac arrest Infective endocarditis Dysrhythmias Acute coronary syndromes ECG interpretation Congestive heart failure and acute pulmonary edema	
	0.8		8 hours <u><b>Chest emergencies</b></u> Pulmonary embolism Upper air way emergencies Lower air way emergencies Bronchial asthma and obstructive airway disease	
	0.8		8 hours <u><b>Neuro-psychiatric emergencies</b></u> Meningitis and encephalitis Stroke and transient ischemic attack Epilepsy and status epilepticus Psychiatric emergencies	
	0.8		8 hours <u><b>Pediatric emergencies</b></u> Advanced pediatric life support Pediatric medical emergencies Pediatric surgical emergencies	
	0.4		<b>Conference or workshop</b>	
	0.4		<b>Formative assessment</b>	
Student signature			Principle coordinator Signature	Head of the department signature

# Year 3

(14 credit points for training)

<i>Clinical training</i>	<i>Credit points</i>	<i>Responsible department</i>	<i>Attendance</i>	<i>Percentage of Achieved points</i>
Clinical training emergency department	10	Coronary, chest, neuropsychiatry and pediatric departments	➤ Practice with medical emergency cases in medical emergency hospital reception (one shift per week) for 17 weeks - Log of 170 cases should cover 80% of cases in the list below	
	3		➤ Practice with pediatric emergency cases in pediatric emergency hospital reception (one shift per week) for 5 weeks Log of 50 cases should cover 80% of pediatric cases in the list below	
	1		➤ Formative assessment	
Student signature			Principle coordinator Signature	Head of the department signature

## Clinical case log

### **Rheumatologic cases:**

1. Rheumatic arthritis
2. Rheumatoid arthritis
3. Septic arthritis
4. Mono or poly arthritis for D.D

### **Endocrinal cases**

1. Diabetic comas and other complications of diabetes
2. Hypoglycemia
3. Thyroid storm
4. Hypothyroid crises
5. Pheochromocytoma
6. Pituitary failure
7. Diabetes insipidus

### **Hepatic cases**

1. Acute liver cell failure
2. Hepatitis
3. Jaundice for D.D
4. Hematemesis due to portal hypertension
5. Hepato-renal syndrome

### **Gastrointestinal cases**

1. Acute abdomen due to GIT causes
  - Peptic ulcer
  - Pancreatitis
  - Cholecystitis and Cholangitis
  - Biliary colic's
  - Bowel obstruction
  - Acute appendicitis and Meckel's diverticulum
  - Intestinal perforation , volvulus and colitis
  - Irreducible or strangulated Hernia
  - Inflammatory bowel diseases
2. Hematemesis
  - Variceal bleeding
  - Duodenal /gastric ulcer
  - Coagulation disorders
3. Lower GIT bleeding and anal pain
  - Anal fissure, anorectal abscess, fistula and pilonidal sinus
  - Rectal prolapse
  - Colitis /tumor
  - Hemorrhoids (thrombosed or bleeding)

### **Hematological cases**

1. Anemias
2. Bleeding tendency

3. Disseminated intravascular coagulopathies 4. Thrombophilias
<u><b>Renal cases</b></u> <ol style="list-style-type: none"> <li>1. Acute renal failure (DeNovo or on top of chronic)</li> <li>2. Urinary tract infection</li> <li>3. Life threatening electrolyte disturbances</li> <li>4. Hemolytic uremic syndrome</li> <li>5. Hematuria for DD</li> </ol>
<u><b>Pulmonary cases</b></u> <ol style="list-style-type: none"> <li>1. Bronchial asthma (diagnosis and management)</li> <li>2. Respiratory failure</li> <li>3. Cardiogenic and non cardiogenic pulmonary edema</li> <li>4. COPD</li> <li>5. Pneumonia</li> <li>6. Pulmonary aspiration</li> <li>7. Spontaneous pneumothorax</li> <li>8. Pleural effusion</li> <li>9. Pulmonary embolism</li> </ol>
<u><b>Cardiac cases</b></u> <ol style="list-style-type: none"> <li>1. Chest pain (cardiac and non cardiac)</li> <li>2. Acute coronary syndromes</li> <li>3. Syncope</li> <li>4. Heart failure in The ER</li> <li>5. Arrhythmias</li> <li>6. Cardiogenic shock</li> <li>7. Pericarditis</li> <li>8. Pericardial effusion</li> <li>9. Hypertensive emergencies</li> </ol>
<u><b>Neurological cases</b></u> <ol style="list-style-type: none"> <li>1. Headache</li> <li>2. Epilepsy and Status epilepticus</li> <li>3. Cerebrovascular emergencies</li> <li>4. Increased intracranial tension</li> <li>5. Meningitis and encephalitis</li> <li>6. Movement disorders</li> <li>7. Acute flaccid paralysis</li> <li>8. Emergency presentation of myasthenia gravis, multiple sclerosis and</li> <li>9. Peripheral neuropathies</li> <li>10. Emergency presentation of brain tumors</li> </ol>
<u><b>Psychiatric cases</b></u> <ol style="list-style-type: none"> <li>1. Major psychiatric presentations <ul style="list-style-type: none"> <li>• Deliberate self harm/suicidal patients</li> <li>• Agitated or violent patients</li> </ul> </li> <li>2. Medical emergencies in psychiatry</li> </ol>

- Delirium
- Acute psychosis
- Neuroleptic malignant syndrome
- Serotonin syndrome
- Substance abuse/withdrawal

3. Non life threatening psychiatric emergencies

- Panic attacks
- Disaster and grief reactions
- Domestic violence
- Rape

4. Malingering and factitious illnesses

**Pediatric cases**

1. APLS
2. Emergency pediatrics as related to different systems
3. Pediatric surgical emergencies
4. Pediatric trauma
5. pediatric toxicology and environmental emergencies

## Post graduate teaching lectures

[illegible]



## Post graduate teaching lectures

[illegible]

## Post graduate teaching lectures

[illegible]

# *Emergency medicine (3)*

# Year 1

(3 credit points for training)

<i>Clinical training</i>	<i>Credit points</i>	<i>Responsible department</i>	<i>Attendance</i>	<i>Percentage of Achieved points</i>
Clinical training emergency department	2.5	General surgery department	➤ Practice with surgical emergency cases in medical emergency hospital reception and in trauma reception (one shift per week)for 5 weeks - Log of 50 cases covering 80% of cases mentioned below	
	0.5		➤ Formative assessment	
Student signature			Principle coordinator Signature	Head of the department signature

# Year 2

(3 credit points for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Emergency medicine (3)</b>	3	General surgery, cardiothoracic, plastic and vascular departments	Year 2	<b>42.34% of the didactics of Unit 1</b>
	<b>2.5</b>		<b>Topics and attendance</b>	<b>64.70%</b>
	1		10 hours <b><u>General Surgical emergencies</u></b> Soft tissue infections Emergency wound management Acute abdomen Abdominal injuries	
	0.4		4 hours <b><u>Vascular emergencies</u></b> Acute limb ischemia and traumatic vascular injuries Aortic dissection and aneurysm	
	0.3		3 hours <b><u>Burn management</u></b>	
	0.4		4 hours <b><u>Head injuries</u></b>	
	0.4		4 hours <b><u>Cardiothoracic emergencies</u></b> Management of cardiothoracic surgical emergencies (cardiac tamponade, pneumo- and hemothorax, chest trauma and flail chest)	
	0.3		<b>Conference or workshop</b>	
	0.2		<b>Formative assessment</b>	
Student signature			Principle coordinator Signature	Head of the department signature

# Year 2

(14 credit points for training)

<i>Clinical training</i>	<i>Credit points</i>	<i>Responsible department</i>	<i>Attendance</i>	<i>Percentage of Achieved points</i>
Clinical training emergency department	13.5	General surgery, cardiothoracic, plastic and vascular, orthopedic, urological, ENT, and ophthalmology departments	➤ Practice with surgical emergency cases in medical emergency hospital reception and in trauma reception (one shift per week)for 27 weeks -Log of 250 cases covering 80% of cases mentioned below	
	0.5		➤ Formative assessment	
Student signature			Principle coordinator Signature	Head of the department signature

# Year 3

(4 credit points for didactic)

Name of the course	Credit points	Responsible department	Attendance	Percentage of Achieved points
<b>Emergency medicine (3)</b>	4	Orthopedic, urology, gynecology, ENT, and ophthalmology departments	Year 3	<b>42.34% of the didactics of Unit 1</b>
	<b>3.5</b>		<b>Topics and attendance</b>	<b>64.70%</b>
	1.2		12 hours <b><u>Orthopedic emergencies</u></b> principles for management of fractures (ankle and foot fractures, long bone fractures, spine fractures and pelvic fractures) joint injuries pediatric trauma (epiphyseal plate injuries, birth fractures and child abuse) skeletal infections (osteomyelitis, acute septic arthritis, bursitis and tenosynovitis) open fractures compartment syndrome nerve injuries crush injuries	
	0.5		5 hours <b><u>Urological emergencies</u></b> Hematuria and acute retention of urine Testicular torsion and epididymitis emergency penile conditions	
	0.8		8 hours <b><u>Gynecological emergencies</u></b> Emergency normal delivery Complications of normal vaginal delivery Abortions and vaginal bleeding Eclampsia and preeclampsia, HELLP syndrome Obstetrical hemorrhage, and Fetal distress Abdominal pain in gynecology Puerperal sepsis	
	0.5		5 hours <b><u>ENT emergencies</u></b> Ear pain Epistaxis Sore throat Nasal and mandibular fractures Facial palsy	

	0.5		5 hours <u><i>Eye emergencies</i></u> Red eye Sudden visual loss Eye trauma Painful eye	
	0.3		<b>Conference or workshop</b>	
	0.2		<b>Formative assessment</b>	
Student signature			Principle coordinator Signature	Head of the department signature



# Year 3

(14 credit points for training)

<i>Clinical training</i>	<i>Credit points</i>	<i>Responsible department</i>	<i>Attendance</i>	<i>Percentage of Achieved points</i>
Clinical training emergency department	10	General surgery, cardiothoracic, plastic and vascular, orthopedic, urological, ENT, and ophthalmology departments	➤ Practice with surgical emergency cases in medical emergency hospital reception and in trauma reception (one shift per week)for 5 weeks Log of 250 cases covering 80% of cases mentioned below	
	3	Gynecology department	➤ Practice with gynecology and obstetric emergency cases in women health hospital reception (one shift per week)for 6 weeks Log of 50 cases covering 80% of cases mentioned below in gynecology and obstetric section	
	0.5		➤ Formative assessment	
Student signature			Principle coordinator Signature	Head of the department signature

## Clinical case log

### **Orthopedic cases**

#### **Hip and thigh**

- Dislocation of hip
- Fracture upper femur
- Fracture shaft femur
- Fracture lower end femur

#### **Shoulder and arm**

- Fracture clavicle, proximal humerus, scapula
- ACJ and SCJ injuries
- Dislocated shoulder
- Fracture humerus shaft

#### **Knee and leg**

- Meniscal injuries
- Knee ligaments injury
- Patella fracture and dislocation
- Knee dislocation
- Tear & rupture of quadriceps and ligamentous patellae
- Rupture Baker's cyst
- Tibial plateau fractures
- Fractures Tibia and fibula

#### **Elbow and forearm fractures**

- Dislocation elbow and pulled elbow
- Fracture radius and ulna
- Forearm compartment syndrome

#### **Ankle and foot**

- Ankle fractures
- Ankle ligamentous injuries and dislocations
- Tendo Achillis injuries
- Fractures of foot bones
- Crush injuries
- Wrist and hand Fractures
- Nail bed injuries
- Hand compartment syndrome
- Tendon injuries
- Hand infections
- Hand wounds and crush injuries

#### **Pelvic fractures**

#### **Skeletal infections**

- Osteomyelitis
- Acute septic arthritis
- Bursitis and tenosynovitis

### **Urological cases:**

- Acute retention of urine
- Acute scrotal pain
- Renal colic
- Emergency penile conditions
- Priapism
- Fracture of penis
- Gangrene of The scrotum
- Phimosis and paraphimosis
- Prostatitis

### **Gynecological and obstetric cases**

#### **Normal labors**

#### **Pre- and post partum hemorrhage**

#### **Acute abdomen**

- ectopic pregnancy
- endometriosis
- ovarian cyst and torsion
- pelvic inflammatory disease
- complications of fibroid
- severe dysmenorrhea

#### **Abnormal vaginal bleeding**

- a. premenopausal
- b. postmenopausal
- c. during pregnancy (abortion, placenta previa & abruption placentae)

#### **Eclampsia and preeclampsia**

### **ENT cases**

#### **Ear pain**

- a. otitis media and externa
- b. cholesteatoma
- c. perforated tympanic membrane
- d. mastoiditis
- e. foreign body

#### **Epistaxis**

#### **Sore throat**

- a. tonsillitis and tonsillar abscess
- b. pharyngitis
- c. retropharyngeal abscess
- d. epiglottitis

#### **Foreign bodies**

- a. ear, nose
- b. throat, esophagus
- c. pharynx and larynx

- d. button batteries

### **Vertigo**

### **Facial palsy**

### **Trauma to The head and neck**

- a. mandibular fracture
- b. nasal fracture
- c. dental fracture and avulsed teeth

### **Eye cases**

#### **The red eye**

- a. Conjunctivitis
- b. Corneal aberrations and ulcers
- c. Keratitis
- d. Foreign bodies
- f. Scleral inflammation

#### **sudden visual loss**

- a. Retinal hemorrhage
- b. Retinal vascular occlusion
- c. Vitreous hemorrhage
- d. Retinal detachment
- e. Optic neuritis
- f. CNS causes

#### **Painful eye**

- a. Glaucoma
- b. Uveitis and iritis
- 4. Eye trauma
- b. Retinal detachment
- d. dacryocystitis

## Post graduate teaching lectures

[illegible]

## Post graduate teaching lectures

[illegible]

## Post graduate teaching lectures

[illegible]

# Elective Course

## Requirements

● **Credit points:** 2 credit point.

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

## One of these 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





## Elective Course    Practical skills

[illegible]

## Academic activities

## Lecture, journal club, conference, workshop

[illegible]

**\*\* Your role:-**

### A- Attendance

## B- Organization

## C- Presentation

## Formative assessment and MCQ

[illegible]

\*Degree

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 بروتوكول البحث	المتبقي	توقيع المشرفين

# Declaration

Course Structure Mirror	Responsible (Course ) Coordinator Name:	Signature	Date
<b>First Part</b>			
<b>Course 1</b>			
<b>Unit (Module ) 1( Anatomy)</b>			
<b>Unit (Module ) 2 (Histology)</b>			
<b>Course 2</b>			
<b>Unit (Module ) 1 (Physiology)</b>			
<b>Unit (Module ) 2 (Biochemistry)</b>			
<b>Course 3</b>			
<b>Unit (Module ) 1 (Pharmacology)</b>			
<b>Unit (Module ) 2 (Pathology)</b>			
<b>Course 4</b>			
<b>Unit 1( Microbiology)</b>			
<b>Unit 2 (Public Health)</b>			
<b>Course 5 ( Internal Medicine)</b>			
<b>Second Part</b>			
<b>Course 6</b>			
<b>Unit (Module ) 1</b>			
<b>Unit (Module ) 2</b>			
<b>Unit (Module ) 3</b>			
<b>Unit (Module ) 4</b>			
<b>Unit (Module ) 5</b>			
<b>- Elective Course (s) Certificate (s) Dates:</b>			
<b>- Master Degree Thesis Acceptance Date:</b>			
<b>- Fulfillment of required credit points prior to final examination</b>			
<b>Chest M Sc Degree Principle Coordinator:</b>			
<b>Date approved by Chest Department Council:</b>			

يعتمد ،  
رئيس القسم