

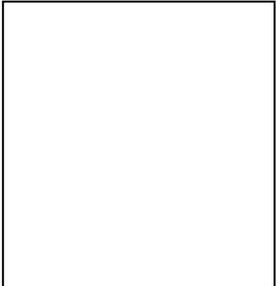


***Department of Anesthesia,  
Surgical Intensive Care &  
Pain Management***

***Logbook of MS***



**Personal Data**



Name: .....

Department : .....

Mobile Number:.....

E-mail Address: .....

MS Degree:

Date of registration: ...../...../.....

Signature:

Head of the Department

Vice Dean for Research and Postgraduate Study



### Aim of the Logbook.

To provide evidence that the candidate attained the desired level of competence required to gain the award. In this book, the candidate will document all academic and clinical skills he/she attained during their training.

### Important regulations (for MS candidates).

- To be legible for the first part MS exam you have to attend at least 70% of the lectures of each course in the semester as evidenced by the logbook
- To be legible for the (MCQ online) exam at the end of each of second part semesters you have to attend at least 70% of the lectures of each course/module in the semester as evidenced by the logbook.
- To be legible for the final MS exam .
  - 1- A time interval of 36 months must pass since the day of registration to the job for residents and demonstrators and 30 months since the day of degree registration for non-residents.
  - 2- You have to spend a year of daily clinical/practical training in the department or two years with three times/week practical/clinical training.
  - 3-You have to register 4 semesters on Ibn-Ihaythm registration page.
  - 4- You have to attend 70% of the lectures of each course in the second part of MS degree.
  - 5- You have to fulfill and perform 70% of the practical skills documented in the logbook.



## Bylaws of the MS

### Semesters of Anesthesia, ICU & Pain

Semester	Subjects
<b>First</b>	Basics of biophysics and clinical measurements
	Internal medicine
	Anatomy
	Physiology
	Pharmacology
<b>Second</b>	<u>Anesthesia (1)</u>
	Obstetric anesthesia
	CVS anesthesia
	Cardio-thoracic anesthesia
	Renal anesthesia
	Physiological basics related to anesthesia, ICU & pain
Pharmacological basics related to anesthesia, ICU & pain	
<b>Third</b>	<u>Anesthesia (2)</u>
	CNS anesthesia
	GIT anesthesia
	Orthopedic anesthesia
	ENT anesthesia
	ICU
<b>Forth</b>	<u>Anesthesia (3)</u>
	Respiratory anesthesia
	Ophthalmic anesthesia
	Endocrine anesthesia
	Pediatric anesthesia
	Pain management
<u>Elective course: Radiology</u>	



## **Contents**

Section I: Scientific Lectures

Section II: Procedures

Section III: Clinical Rotation

Section IV: Seminars

Section V: Scientific Activities (Conferences/Workshops)





# Section I:

## Scientific Lectures

Insert the suitable number of timetables for each of first and second part courses taking into account:

- 1- The number of lectures of each course and its teaching hours which are determined by its credit hours (1 credit =15 teaching hours).
- 2- The timetables of each course should be copied from its course specification.
- 3- The timetables must be updated each time the course specification is updated.



**Name of the course: Basics of biophysics**

**Compulsory/Elective: Compulsory      First/Second part: First**

**Credit hours: 2      Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>Basic physical principles</b>	
	<b>Flow &amp; volume &amp; pressure measurement</b>	
	<b>Laminar &amp; turbulent flow</b>	
	<b>Gas laws</b>	
	<b>Humidity</b>	
	<b>Transducers</b>	
	<b>Biological membranes</b>	
	<b>Measurement of O<sub>2</sub>, Co<sub>2</sub>, H, anesthetic agents</b>	
	<b>Gas supply system</b>	
	<b>Anesthesia machine</b>	
	<b>Vaporizers</b>	
	<b>Flowmeters</b>	
	<b>Anesthetic circuits</b>	



	<b>Gas scavenging systems</b>	
	<b>ECG</b>	
	<b>Pulse oximetry</b>	
	<b>Capnography</b>	
	<b>Pulmonary artery catheterization</b>	
	<b>Non-invasive blood pressure monitoring</b>	
	<b>Invasive blood pressure monitoring</b>	
	<b>CVP monitoring</b>	
	<b>Temperature monitoring</b>	
	<b>COP &amp; blood flow monitoring</b>	
	<b>Monitoring of CNS</b>	
	<b>Neuromuscular monitoring</b>	
	<b>Physics of patient positioning</b>	
	<b>ECHO physics</b>	
	<b>Cardiac pacing and defibrillation</b>	
	<b>Ultrasound &amp; laser</b>	
	<b>The Operating Room safety</b>	



**Name of the course: Internal medicine**

**Compulsory/Elective: Compulsory First/Second part: First**

**Credit hours: One Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>General</b>	
	<b>Cardiovascular diseases</b>	
	<b>Respiratory diseases</b>	
	<b>GIT diseases</b>	
	<b>Liver diseases</b>	
	<b>Kidney diseases</b>	
	<b>Endocrine disorders</b>	
	<b>Blood diseases</b>	
	<b>Benzodiazepines</b>	
	<b>History taking</b>	
	<b>General examination</b>	
	<b>Head &amp; neck examination</b>	
	<b>CVS examination</b>	
	<b>Chest examination</b>	
	<b>Abdominal examination</b>	
	<b>Upper &amp; lower limb examination</b>	



**Name of the course: Anatomy**

**Compulsory/Elective: Compulsory First/Second part: First**

**Credit hours: One Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>Embryological principles</b>	
	<b>Anatomy of mouth cavity</b>	
	<b>Anatomy of nasal cavity</b>	
	<b>Anatomy of pharynx</b>	
	<b>Anatomy of larynx</b>	
	<b>Anatomy of chest</b>	
	<b>Anatomy of heart</b>	
	<b>Anatomy of spinal cord</b>	
	<b>Anatomy of meninges</b>	
	<b>Anatomy of cranial nerves</b>	
	<b>Brachial, cervical, lumbosacral plexuses</b>	
	<b>Anatomy of major nerves</b>	
	<b>Anatomy of major blood vessels</b>	
	<b>Anatomy superficial blood vessels</b>	
	<b>Anatomy of major joints</b>	



**Name of the course: Physiology**

**Compulsory/Elective: Compulsory First/Second part: First**

**Credit hours: One Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>Pain sensation &amp; pain control system</b>	
	<b>Motor muscle tone &amp; stretch reflex</b>	
	<b>Sensory &amp; motor pathways</b>	
	<b>Cerebral blood flow &amp; circulation</b>	
	<b>Regulation of ABP</b>	
	<b>COP</b>	
	<b>Shock &amp; hemorrhage</b>	
	<b>Resting membrane potential</b>	
	<b>Action potential</b>	
	<b>Neuron transmission</b>	
	<b>Excitation-contraction coupling</b>	
	<b>Regulation of respiration</b>	
	<b>Transportation of O<sub>2</sub> &amp; CO<sub>2</sub></b>	
	<b>H<sup>+</sup> regulation</b>	
	<b>Hypoxia &amp; cyanosis</b>	



**Name of the course: Pharmacology**

**Compulsory/Elective: Compulsory First/Second part: First**

**Credit hours: One Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>General Pharmacology 1</b>	
	<b>General Pharmacology 2</b>	
	<b>General Pharmacology 3</b>	
	<b>Autonomic pharmacology 1</b>	
	<b>Autonomic pharmacology 2</b>	
	<b>Autonomic pharmacology 3</b>	
	<b>Autonomic pharmacology 4</b>	
	<b>Drugs acting on CVS 1</b>	
	<b>Drugs acting on CVS 2</b>	
	<b>Drugs acting on CVS 3</b>	
	<b>Drugs acting on CVS 4</b>	
	<b>Drugs acting on CNS 1</b>	
	<b>Drugs acting on CNS 2</b>	
	<b>Drugs acting on CNS 3</b>	
	<b>Drugs acting on CNS 4</b>	



**Name of the course: Anesthesia 1**

**Compulsory/Elective: Compulsory First/Second part: Second**

**Credit hours: 3 Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
<b>Obstetric anesthesia</b>		
	<b>Changes during pregnancy</b>	
	<b>Anesthesia for normal labor 1</b>	
	<b>Anesthesia for normal labor 2</b>	
	<b>Anesthesia for cesarian section 1</b>	
	<b>Anesthesia for cesarian section 2</b>	
	<b>Preeclampsia: pathophysiology</b>	
	<b>Preeclampsia: management</b>	
	<b>Eclampsia</b>	
	<b>Pre-partum hemorrhage: placenta previa</b>	
	<b>Post-partum hemorrhage: types &amp; management</b>	
	<b>Obstetric patient &amp; CVS diseases 1</b>	
	<b>Obstetric patient &amp; CVS diseases 2</b>	
	<b>Obstetric emergencies 1</b>	
	<b>Obstetric emergencies 2</b>	
	<b>Anesthesia of pregnant for non-obstetric surgery 1</b>	
	<b>Anesthesia of pregnant for non-obstetric surgery 2</b>	
<b>CVS anesthesia &amp; Cardio-thoracic surgery</b>		
	<b>Cardiac cycle</b>	
	<b>Coronary circulation</b>	
	<b>Waveform analysis</b>	
	<b>Anesthetic drugs related for cardiac surgery</b>	



	<b>Pharmacology of anticoagulants &amp; antiplatelet drugs related for cardiac surgery</b>	
	<b>Anesthetic considerations of HTN</b>	
	<b>Anesthetic considerations of IHD</b>	
	<b>Anesthetic considerations of HF</b>	
	<b>Anesthetic considerations of cardiomyopathy</b>	
	<b>Anesthetic management of valvular diseases 1</b>	
	<b>Anesthetic management of valvular diseases 2</b>	
	<b>Anesthesia of congenital heart diseases</b>	
	<b>Anesthetic management of pulmonary HTN</b>	
	<b>Cardiopulmonary bypass machine</b>	
	<b>Anesthetic management for valve replacement</b>	
	<b>Anesthetic management for CABG surgery</b>	
	<b>Anesthesia for congenital heart surgery</b>	
	<b>Anesthetic management for vascular surgeries</b>	
	<b>Anesthetic management for aortic surgery</b>	
	<b>Anesthesia for cardiac tamponade and tumours</b>	
	<b>Mechanical assist devices</b>	
	<b>Echo review</b>	
	<b>Anesthetic principles of thoracic surgery</b>	
	<b>One lung ventilation</b>	
<b>Renal anesthesia</b>		
	<b>Pharmacological considerations for CRF</b>	
	<b>Anesthesia of renal impairment &amp; CRF</b>	
	<b>TURP syndrome</b>	
	<b>Anesthesia during renal transplantation</b>	
	<b>Anesthesia for lithotripsy</b>	



**Name of the course: Physiological basics related to anesthesia, ICU & pain      Compulsory/Elective: Compulsory**  
**First/Second part: Second      Credit hours: One**  
**Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>Respiratory physiology 1</b>	
	<b>Respiratory physiology 2</b>	
	<b>CVS physiology 1</b>	
	<b>CVS physiology 2</b>	
	<b>Renal physiology</b>	
	<b>Hepatic physiology</b>	
	<b>Hematology physiology</b>	
	<b>Neurophysiology 1</b>	
	<b>Neurophysiology 2</b>	
	<b>Pediatric physiology 1</b>	
	<b>Pediatric physiology 2</b>	
	<b>Geriatric physiology</b>	
	<b>Obstetric physiology 1</b>	
	<b>Obstetric physiology 2</b>	
	<b>Physiology of IOP</b>	



**Name of the course: Pharmacological basics related to anesthesia, ICU & pain      Compulsory/Elective: Compulsory**  
**First/Second part: Second      Credit hours: One**  
**Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>Inhalational anesthetics 1</b>	
	<b>Inhalational anesthetics 2</b>	
	<b>Nonvolatile anesthetic drugs 1</b>	
	<b>Nonvolatile anesthetic drugs 2</b>	
	<b>Neuromuscular blocking agents</b>	
	<b>Adrenergic agonists &amp; antagonists</b>	
	<b>Anticholinergics &amp; cholinesterase inhibitors</b>	
	<b>Benzodiazepines</b>	
	<b>Opioids</b>	
	<b>Non-opioid analgesics</b>	
	<b>Drugs acting on CNS system</b>	
	<b>Drugs acting on CVS system</b>	
	<b>Drugs acting on GIT &amp; respiratory systems</b>	
	<b>Adjuncts to anesthesia</b>	
	<b>Anticoagulants</b>	



**Name of the course: Anesthesia 2**

**Compulsory/Elective: Compulsory First/Second part: Second**

**Credit hours: 3 Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
<b>Neuro-anesthesia</b>		
	<b>Neuro-anatomy</b>	
	<b>Radiology of CNS</b>	
	<b>Neurophysiology</b>	
	<b>Effect of anesthetic drugs on CNS physiology</b>	
	<b>Blood brain barrier</b>	
	<b>Brain protection</b>	
	<b>CSF physiology</b>	
	<b>Intra-cranial pressure</b>	
	<b>Head trauma</b>	
	<b>Anesthesia of supra-tentorial tumors</b>	
	<b>Anesthesia of infra-tentorial tumors</b>	
	<b>Anesthesia of posterior fossa tumors</b>	
	<b>Anesthesia of cerebral aneurysm</b>	
	<b>Pituitary tumours</b>	
	<b>Anesthesia of spine surgery</b>	
	<b>Anesthesia of carotid end-arterectomy</b>	
	<b>Neuromuscular transmission &amp; monitoring</b>	
	<b>Patient positioning</b>	
	<b>Awake craniotomy</b>	
	<b>Pediatric neuro-anesthesia</b>	
	<b>Anesthetic consideration for psychiatric diseases</b>	



## **GIT & Bariatric anesthesia**

	<b>Anesthesia for laparoscopy</b>	
	<b>Anesthetic consideration for LCF</b>	
	<b>Anesthesia for hepatic transplant patient</b>	
	<b>Anesthesia for Intestinal obstruction</b>	
	<b>Physiological changes in morbid obesity</b>	
	<b>Anesthetic consideration for bariatric surgery</b>	

## **Orthopedic anesthesia**

	<b>Spinal anesthesia</b>	
	<b>Epidural &amp; caudal anesthesia</b>	
	<b>Complications of neuro-axial anesthesia</b>	
	<b>Regional anesthesia</b>	
	<b>Anesthesia for myasthenia gravis</b>	
	<b>Anesthesia for other musculoskeletal diseases</b>	
	<b>Malignant hyperthermia</b>	
	<b>Anesthetic considerations for trauma patients</b>	
	<b>Total hip and knee replacement surgery</b>	

## **ENT anesthesia**

	<b>Post-tonsillectomy bleeding</b>	
	<b>Anesthetic consideration for surgeries on nose</b>	
	<b>Anesthetic consideration for ear surgeries</b>	
	<b>Anesthetic consideration for laryngeal surgeries</b>	
	<b>Anesthesia for surgeries on upper air way</b>	
	<b>Hypotensive anesthesia</b>	
	<b>Maxillofacial &amp; dental anesthesia</b>	
	<b>Anesthetic consideration for Laser surgery</b>	
	<b>Special equipments for ENT surgeries</b>	



**Name of the course: ICU**

**Compulsory/Elective: Compulsory First/Second part: Second**

**Credit hours: 3 Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>ICU design</b>	
	<b>Infection control</b>	
	<b>Cardiopulmonary resuscitation</b>	
	<b>Central venous catheterization</b>	
	<b>Mechanical ventilation 1</b>	
	<b>Mechanical ventilation 2</b>	
	<b>Mechanical ventilation 3</b>	
	<b>Mechanical ventilation 4</b>	
	<b>Enteral and parenteral nutrition 1</b>	
	<b>Enteral and parenteral nutrition 2</b>	
	<b>Enteral and parenteral nutrition 3</b>	
	<b>Acid-base balance 1</b>	
	<b>Acid-base balance 2</b>	
	<b>Acid-base balance 3</b>	
	<b>Fluid &amp; electrolyte disturbances 1</b>	
	<b>Fluid &amp; electrolyte disturbances 2</b>	
	<b>Fluid &amp; electrolyte disturbances 3</b>	
	<b>Arrhythmia 1</b>	
	<b>Arrhythmia 2</b>	
	<b>Arrhythmia 3</b>	



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	<b>Acute coronary syndrome 1</b>	
	<b>Acute coronary syndrome 2</b>	
	<b>Pulmonary embolism 1</b>	
	<b>Pulmonary embolism 2</b>	
	<b>ARDS 1</b>	
	<b>ARDS 2</b>	
	<b>Aspiration pneumonitis</b>	
	<b>Sepsis &amp; septic shock: pathophysiology 1</b>	
	<b>Sepsis &amp; septic shock: pathophysiology 2</b>	
	<b>Sepsis &amp; septic shock: management 1</b>	
	<b>Sepsis &amp; septic shock: management 2</b>	
	<b>Management of burn 1</b>	
	<b>Management of burn 2</b>	
	<b>Intracranial hypertension</b>	
	<b>Coagulation cascade</b>	
	<b>Thromboelastography 1</b>	
	<b>Thromboelastography 2</b>	
	<b>Fluid &amp; blood components 1</b>	
	<b>Fluid &amp; blood components 2</b>	
	<b>Diabetic comas</b>	
	<b>Management of trauma patients 1</b>	
	<b>Management of trauma patients 2</b>	
	<b>Delirium</b>	
	<b>Post-operative complications 1</b>	
	<b>Post-operative complications 2</b>	



**Name of the course: Anesthesia 3**

**Compulsory/Elective: Compulsory First/Second part: Second**

**Credit hours: 3 Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
<b>Respiratory anesthesia</b>		
	<b>Flow volume loop</b>	
	<b>Interpretation of PFTs</b>	
	<b>Difficult airway: assessment</b>	
	<b>Difficult airway: management</b>	
	<b>Airway management techniques</b>	
	<b>Airway emergencies</b>	
	<b>Obstructive lung diseases</b>	
	<b>Anesthesia of asthmatic patients</b>	
	<b>Anesthesia of COPD patients</b>	
	<b>Obstructive lung diseases</b>	
	<b>Anesthesia of OSAS patients</b>	
	<b>Post-operative pulmonary complications</b>	
<b>Ophthalmic anesthesia</b>		
	<b>Anatomy of the eye</b>	
	<b>Techniques of local ocular anesthesia</b>	
	<b>Effect of anesthesia on IOP</b>	
	<b>Oculo-cardiac reflex</b>	
	<b>Anesthetic considerations for different eye surgeries</b>	
	<b>Rupture globe</b>	



## Endocrine anesthesia

	<b>Diabetic patients: pathophysiology</b>	
	<b>DM: anesthetic considerations</b>	
	<b>DM: peri-operative management</b>	
	<b>Hyperthyroidism: pathophysiology</b>	
	<b>Hyperthyroidism: anesthetic management</b>	
	<b>Hypothyroidism: pathophysiology</b>	
	<b>Hypothyroidism: anesthetic management</b>	
	<b>Hyperparathyroidism</b>	
	<b>Hypoparathyroidism</b>	
	<b>Adreno-cortical crisis</b>	
	<b>Anesthesia for pheochromocytoma</b>	
	<b>Other endocrinal disorders</b>	
	<b>Hematological &amp; coagulation disorders 1</b>	
	<b>Hematological &amp; coagulation disorders 2</b>	
	<b>Peri-operative anesthetic problems</b>	

## Pediatric anesthesia

	<b>Physiological changes in pediatrics</b>	
	<b>Considerations for pediatric surgery</b>	
	<b>Congenital diaphragmatic hernia</b>	
	<b>Trachea-esophageal fistula</b>	
	<b>Pyloric stenosis</b>	
	<b>Anesthesia for cleft lip &amp; palate</b>	
	<b>Neonatal anesthesia</b>	
	<b>Day case surgery</b>	
	<b>Sedation</b>	
	<b>Pediatric emergencies</b>	
	<b>Upper airway endoscopy</b>	
	<b>Upper GIT endoscopy</b>	



**Name of the course: Pain**

**Compulsory/Elective: Compulsory First/Second part: Second**

**Credit hours: 3 Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>Definitions</b>	
	<b>Pain pathway</b>	
	<b>Pain physiology</b>	
	<b>Pain measurement</b>	
	<b>Acute post-operative pain 1</b>	
	<b>Acute post-operative pain 2</b>	
	<b>Stress response</b>	
	<b>Chronic pain 1</b>	
	<b>Chronic pain 2</b>	
	<b>Pharmacological interventions</b>	
	<b>Anatomy of vertebral column, Epidural space &amp; dermatomal distribution</b>	
	<b>Degenerative changes in back pain</b>	
	<b>How to examine the back</b>	
	<b>Clinical presentation of LBP</b>	
	<b>Medical &amp; interventional treatment of LBP 1</b>	
	<b>Medical &amp; interventional treatment of LBP 2</b>	
	<b>Failed back surgery syndrome</b>	
	<b>Cancer pain 1</b>	
	<b>Cancer pain 2</b>	
	<b>Types of neuropathic pain</b>	



	<b>Trigeminal neuralgia</b>	
	<b>Glossopharyngeal neuralgia</b>	
	<b>Post-herpetic neuralgia</b>	
	<b>Diabetic neuralgia</b>	
	<b>Complex regional pain syndrome</b>	
	<b>Myofascial pain</b>	
	<b>Entrapment syndromes</b>	
	<b>Sympathetic blocks</b>	
	<b>Stellate ganglion block</b>	
	<b>Celiac plexus block</b>	
	<b>Splanchnic nerve block</b>	
	<b>Hypogastric plexus block</b>	
	<b>Ganglion impar block</b>	
	<b>Paravertebral block</b>	
	<b>Neurolytic blocks &amp; radiofrequency ablation</b>	
	<b>Somatic blocks 1</b>	
	<b>Somatic blocks 2</b>	
	<b>Brachial plexus block</b>	
	<b>Bier block</b>	
	<b>Peripheral nerve blocks 1</b>	
	<b>Peripheral nerve blocks 2</b>	
	<b>Peripheral nerve blocks 3</b>	
	<b>Headache 1</b>	
	<b>Headache 2</b>	
	<b>Palliative care medicine</b>	



**Name of the course: Radiology related to anesthesia**

**Compulsory/Elective: Elective      First/Second part: Second**

**Credit hours: 1      Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>Principles of X-ray</b>	
	<b>Principles of CT scan</b>	
	<b>Principles of MRI</b>	
	<b>Principles of U/S</b>	
	<b>Chest X-ray 1</b>	
	<b>Chest X-ray 2</b>	
	<b>CT chest 1</b>	
	<b>CT chest 2</b>	
	<b>Brain CT 1</b>	
	<b>Brain CT 2</b>	
	<b>Cervical, thoracic &amp; lumbar X-ray 1</b>	
	<b>Cervical, thoracic &amp; lumbar X-ray 2</b>	
	<b>CT abdomen</b>	
	<b>FAST 1</b>	
	<b>FAST 2</b>	



## **Section II: Procedures**



## List of requirements

Name of the procedure	Total number required	Observer	Assistant	Independent
<b>Oral endotracheal intubation</b>	<b>80</b>	<b>10</b>	<b>10</b>	<b>60</b>
<b>Nasal endotracheal intubation</b>	<b>20</b>	<b>5</b>	<b>5</b>	<b>10</b>
<b>Supraglottic airway devices</b>	<b>40</b>	<b>5</b>	<b>10</b>	<b>25</b>
<b>Fiberoptic intubation</b>	<b>10</b>	<b>4</b>	<b>3</b>	<b>3</b>
<b>Difficult venous cannulation</b>	<b>50</b>	<b>5</b>	<b>5</b>	<b>40</b>
<b>Central vein catheterization</b>	<b>30</b>	<b>5</b>	<b>5</b>	<b>20</b>
<b>Pulmonary art. catheterization</b>	<b>5</b>	<b>5</b>		
<b>Arterial cannulation</b>	<b>10</b>	<b>2</b>	<b>2</b>	<b>6</b>
<b>Spinal anesthesia</b>	<b>80</b>	<b>10</b>	<b>10</b>	<b>60</b>
<b>Epidural anesthesia</b>	<b>30</b>	<b>5</b>	<b>5</b>	<b>20</b>
<b>Caudal anesthesia</b>	<b>10</b>	<b>2</b>	<b>3</b>	<b>5</b>
<b>Paravertebral anesthesia</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>2</b>
<b>U/S brachial plexus block</b>	<b>20</b>	<b>5</b>	<b>5</b>	<b>10</b>
<b>U/S regional nerve blocks</b>	<b>30</b>	<b>10</b>	<b>10</b>	<b>10</b>

















**Procedure 4: Fiberoptic intubation**

Level of participation	Date	Location	Signature of supervisor

**Procedure 5: Difficult venous cannulation**

Level of participation	Date	Location	Signature of supervisor










**Procedure 7: Pulmonary artery catheterization**

Level of participation	Date	Location	Signature of supervisor

**Procedure 8: Arterial cannulation**

Level of participation	Date	Location	Signature of supervisor
















**Procedure 12: Parvertebral anesthesia**

<b>Level of participation</b>	<b>Date</b>	<b>Location</b>	<b>Signature of supervisor</b>

**Procedure 13: U/S brachial plexus block**

<b>Level of participation</b>	<b>Date</b>	<b>Location</b>	<b>Signature of supervisor</b>







# Section III: Clinical Rotation





## Clinical Rotation

Rotation	Date		Hospital	Trainee`s signature	Trainer`s signature
	From	To			





## **Section IV: Seminars**



**List of requirements:**

- 1- Seminar attendance: 10 times**
- 2- Seminar performance: 3 times**

**1- Attendance**

Topic	Date	Supervisor signature

**2- Performance**

Topic	Date	Supervisor signature



# **Section V: Scientific Activities (Conferences/Workshops)**



**List of requirements:**

<b>Conferences</b>			
<b>Total number required</b>	<b>Attendance</b>	<b>Organization</b>	<b>Presentation</b>
<b>3</b>	<b>3</b>		
<b>Workshops</b>			
<b>Total number required</b>	<b>Attendance</b>	<b>Organization</b>	<b>Presentation</b>
<b>3</b>	<b>3</b>		



Activity (Conference/Workshop)	Role	Date	Supervisor's signature

**Role:**

- Attendant
- Organizer
- Presenter