

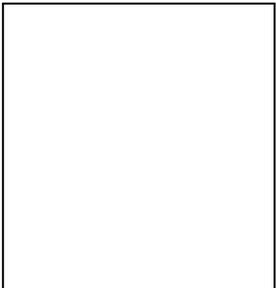


***Department of Anesthesia,  
Surgical Intensive Care &  
Pain Management***

***Logbook of MD***



**Personal Data**



Name: .....

Department: .....

Mobile Number: .....

E-mail Address: .....

MD 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 MD candidates).

- To be legible for the first part MD 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 MD exam :
  - 1- A time interval of 36 months must pass since the day of degree registration.
  - 2- You have to take your practical/clinical training three times/week for two years .
  - 3-You have to register 5 semesters on Ibn-Ihaythm registration page.
  - 4- You have to attend 70% of the lectures of each course in the second part of MD degree.
  - 5- You have to fulfill and perform 70% of the practical skills documented in the logbook.



## Bylaws of the MD

### Semesters of Anesthesia, ICU & Pain

Semester	Subjects
<b>First</b>	Basics of biophysics and clinical measurements
<b>Second</b>	Thesis registration
<b>Third</b>	<u>Anesthesia (1)</u> Obstetric anesthesia CVS anesthesia Cardio-thoracic anesthesia Renal anesthesia
	Applied physiology related to anesthesia, ICU & pain
	Applied pharmacology related to anesthesia, ICU & pain
<b>Fourth</b>	<u>Anesthesia (2)</u> CNS anesthesia GIT anesthesia Orthopedic anesthesia ENT anesthesia
	ICU
<b>Fifth</b>	<u>Anesthesia (3)</u> Respiratory anesthesia Ophthalmic anesthesia Endocrine anesthesia Pediatric anesthesia
	Pain management
<b>Sixth</b>	<u>Elective course:</u> Radiology



## **Contents**

Section I: Scientific Lectures

Section II: Procedures

Section III: Clinical Rotation

Section IV: Seminars

Section V: Student Teaching Sections

Section VI: 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: 5      Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>Basic physics of atoms</b>	
	<b>Simple mechanics</b>	
	<b>Viscosity, density, baricity</b>	
	<b>Diffusion, osmosis, osmolarity</b>	
	<b>Solubility</b>	
	<b>Saturated vapor pressure</b>	
	<b>Biological membranes</b>	
	<b>Sine wave and wave patterns</b>	
	<b>Resonance and damping</b>	
	<b>Physics of heat</b>	
	<b>Physics of temperature</b>	
	<b>Physics of pressure</b>	
	<b>Physics of electricity</b>	
	<b>Electrical safety</b>	
	<b>Flow measurement 1</b>	
	<b>Flow measurement 2</b>	
	<b>Volume measurement 1</b>	
	<b>Volume measurement 2</b>	
	<b>Pressure measurement 1</b>	
	<b>Pressure measurement 2</b>	
	<b>Laminar flow</b>	
	<b>Turbulent flow</b>	



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	<b>Flow principles and effects</b>	
	<b>Gas laws 1</b>	
	<b>Gas laws 2</b>	
	<b>Humidity 1</b>	
	<b>Humidity 2</b>	
	<b>Transducers 1</b>	
	<b>Transducers 2</b>	
	<b>Gas Chromatography &amp; spectrometry</b>	
	<b>Measurement of O<sub>2</sub>, Co<sub>2</sub>, anesthetic agents</b>	
	<b>Measurement of H<sup>+</sup></b>	
	<b>Gas supply system</b>	
	<b>Gas cylinders</b>	
	<b>Anesthesia machine 1</b>	
	<b>Anesthesia machine 2</b>	
	<b>Anesthesia machine 3</b>	
	<b>Anesthesia machine 4</b>	
	<b>Ventilator wave analysis 1</b>	
	<b>Ventilator wave analysis 2</b>	
	<b>Vaporizers 1</b>	
	<b>Vaporizers 2</b>	
	<b>Flowmeters</b>	
	<b>Anesthetic circuits 1</b>	
	<b>Anesthetic circuits 2</b>	
	<b>Oxygen delivery systems</b>	
	<b>Gas scavenging systems</b>	
	<b>ECG 1</b>	
	<b>ECG 2</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 monitoring</b>	
	<b>Blood flow measurement (Doppler)</b>	
	<b>Monitoring of CNS</b>	
	<b>Neuromuscular monitoring</b>	
	<b>Physics of patient positioning 1</b>	
	<b>Physics of patient positioning 2</b>	
	<b>ECHO physics 1</b>	
	<b>ECHO physics 2</b>	
	<b>The Operating Room safety 1</b>	
	<b>The Operating Room safety 2</b>	
	<b>Cardiac pacing and defibrillation 1</b>	
	<b>Cardiac pacing and defibrillation 2</b>	
	<b>Ultrasound 1</b>	
	<b>Ultrasound 2</b>	
	<b>Laser</b>	
	<b>MRI</b>	
	<b>Radiation physics</b>	
	<b>Energy and power</b>	
	<b>Fires and Explosions</b>	



**Name of the course: Anesthesia 1**

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

**Credit hours: 4 Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
<b>Obstetric anesthesia</b>		
	<b>Changes during pregnancy 1</b>	
	<b>Changes during pregnancy 2</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 1</b>	
	<b>Preeclampsia: management 2</b>	
	<b>Eclampsia</b>	
	<b>Pre-partum hemorrhage: placenta previa</b>	
	<b>Pre-partum hemorrhage: types</b>	
	<b>Pre-partum hemorrhage: management</b>	
	<b>Post-partum hemorrhage: types</b>	
	<b>Post-partum hemorrhage: 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>	



## **CVS anesthesia & Cardio-thoracic surgery**

	<b>Cardiac cycle</b>	
	<b>Coronary circulation</b>	
	<b>Waveform analysis</b>	
	<b>Pharmacology of 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>Anesthetic management of congenital heart diseases</b>	
	<b>Anesthetic management of pulmonary HTN</b>	
	<b>Cardiopulmonary bypass machine 1</b>	
	<b>Cardiopulmonary bypass machine 2</b>	
	<b>PH &amp; alpha state</b>	
	<b>Anesthetic management for valve replacement surgery 1</b>	
	<b>Anesthetic management for valve replacement surgery 2</b>	
	<b>Anesthetic management for CABG surgery</b>	
	<b>Anesthesia for pediatric cardiac surgery</b>	



	<b>Anesthetic management for congenital heart surgery</b>	
	<b>Off-pump cardiac surgery</b>	
	<b>Anesthetic management for vascular surgeries</b>	
	<b>Anesthetic management for aortic surgery</b>	
	<b>Anesthetic considerations for cardiac tamponade, dissection and tumours</b>	
	<b>Mechanical assist devices</b>	
	<b>Heart transplant</b>	
	<b>Echo review</b>	
	<b>Anesthetic principles of thoracic surgery 1</b>	
	<b>Anesthetic principles of thoracic surgery 2</b>	
	<b>One lung ventilation</b>	
<b>Renal anesthesia</b>		
	<b>Pharmacological considerations for CRF 1</b>	
	<b>Pharmacological considerations for CRF 2</b>	
	<b>Anesthesia of renal impairment &amp; CRF</b>	
	<b>TURP syndrome 1</b>	
	<b>TURP syndrome 2</b>	
	<b>Anesthetic considerations during renal transplantation 1</b>	
	<b>Anesthetic considerations during renal transplantation 2</b>	
	<b>Anesthesia for lithotripsy</b>	



**Name of the course: Applied physiology 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: Applied Pharmacology 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: 4 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>Neuro-physiologic monitoring</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 1</b>	
	<b>Head trauma 2</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 1</b>	
	<b>Anesthesia of cerebral aneurysm 2</b>	
	<b>Pituitary tumours</b>	
	<b>Spinal cord trauma</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 1</b>	
	<b>Pediatric neuro-anesthesia 2</b>	
	<b>Neuro-psychiatry: physiology</b>	
	<b>Anesthetic consideration for psychiatric diseases</b>	

## **GIT & Bariatric anesthesia**

	<b>Anesthesia for laparoscopy 1</b>	
	<b>Anesthesia for laparoscopy 2</b>	
	<b>Anesthetic consideration for LCF 1</b>	
	<b>Anesthetic consideration for LCF 2</b>	
	<b>Anesthetic considerations for hepatic transplant patient 1</b>	
	<b>Anesthetic considerations for hepatic transplant patient 2</b>	
	<b>Anesthetic considerations for Intestinal obstruction</b>	
	<b>Physiological changes in morbid obesity 1</b>	
	<b>Physiological changes in morbid obesity 2</b>	
	<b>Anesthetic consideration for bariatric surgery</b>	

## **Orthopedic anesthesia**

	<b>Spinal anesthesia</b>	
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	<b>Epidural &amp; caudal anesthesia</b>	
	<b>Complications of neuro-axial anesthesia</b>	
	<b>Regional anesthesia 1</b>	
	<b>Regional anesthesia 2</b>	
	<b>Anesthesia for myasthenia gravis</b>	
	<b>Anesthesia for other musculoskeletal diseases</b>	
	<b>Malignant hyperthermia</b>	
	<b>Anesthetic considerations for trauma patients 1</b>	
	<b>Anesthetic considerations for trauma patients 2</b>	
	<b>Total hip and knee replacement surgery</b>	
	<b>Bone cement syndrome</b>	
<b>ENT anesthesia</b>		
	<b>Post-tonsillectomy bleeding</b>	
	<b>Anesthetic considerations for surgeries on nose and para-nasal sinuses</b>	
	<b>Anesthetic considerations for ear surgeries</b>	
	<b>Anesthetic considerations for laryngeal surgeries</b>	
	<b>Anesthesia for surgeries on upper air way 1</b>	
	<b>Anesthesia for surgeries on upper air way 2</b>	
	<b>Post-extubation laryngeal edema &amp; croup</b>	
	<b>Hypotensive anesthesia</b>	
	<b>Maxillofacial &amp; dental anesthesia</b>	
	<b>Anesthetic considerations 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: 5 Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>ICU design 1</b>	
	<b>ICU design 2</b>	
	<b>Infection control 1</b>	
	<b>Infection control 2</b>	
	<b>Cardiopulmonary resuscitation 1</b>	
	<b>Cardiopulmonary resuscitation 2</b>	
	<b>Cardiopulmonary resuscitation 3</b>	
	<b>Central venous catheterization 1</b>	
	<b>Central venous catheterization 2</b>	
	<b>Mechanical ventilation 1</b>	
	<b>Mechanical ventilation 2</b>	
	<b>Mechanical ventilation 3</b>	
	<b>Mechanical ventilation 4</b>	
	<b>Mechanical ventilation 5</b>	
	<b>Mechanical ventilation 6</b>	
	<b>Mechanical ventilation 7</b>	
	<b>Mechanical ventilation 8</b>	
	<b>Enteral and parenteral nutrition 1</b>	
	<b>Enteral and parenteral nutrition 2</b>	
	<b>Enteral and parenteral nutrition 3</b>	
	<b>Enteral and parenteral nutrition 4</b>	
	<b>Enteral and parenteral nutrition 5</b>	



	<b>Enteral and parenteral nutrition 6</b>	
	<b>Acid–base balance 1</b>	
	<b>Acid–base balance 2</b>	
	<b>Acid–base balance 3</b>	
	<b>Acid–base balance 4</b>	
	<b>Acid–base balance 5</b>	
	<b>Fluid &amp; electrolyte disturbances 1</b>	
	<b>Fluid &amp; electrolyte disturbances 2</b>	
	<b>Fluid &amp; electrolyte disturbances 3</b>	
	<b>Fluid &amp; electrolyte disturbances 4</b>	
	<b>Fluid &amp; electrolyte disturbances 5</b>	
	<b>Arrhythmia 1</b>	
	<b>Arrhythmia 2</b>	
	<b>Arrhythmia 3</b>	
	<b>Acute coronary syndrome 1</b>	
	<b>Acute coronary syndrome 2</b>	
	<b>Pulmonary embolism 1</b>	
	<b>Pulmonary embolism 2</b>	
	<b>Pulmonary embolism 3</b>	
	<b>ARDS 1</b>	
	<b>ARDS 2</b>	
	<b>ARDS 3</b>	
	<b>Aspiration pneumonitis 1</b>	
	<b>Aspiration pneumonitis 2</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>Sepsis &amp; septic shock: management 3</b>	
	<b>Sepsis &amp; septic shock: management 4</b>	
	<b>Sepsis &amp; septic shock: management 5</b>	
	<b>Management of burn 1</b>	
	<b>Management of burn 2</b>	
	<b>Management of burn 3</b>	
	<b>Intracranial hypertension 1</b>	
	<b>Intracranial hypertension 2</b>	
	<b>Coagulation cascade 1</b>	
	<b>Coagulation cascade 2</b>	
	<b>Coagulation cascade 3</b>	
	<b>Thromboelastography 1</b>	
	<b>Thromboelastography 2</b>	
	<b>Thromboelastography 3</b>	
	<b>Fluid &amp; blood components 1</b>	
	<b>Fluid &amp; blood components 2</b>	
	<b>Fluid &amp; blood components 3</b>	
	<b>Diabetic comas 1</b>	
	<b>Diabetic comas 2</b>	
	<b>Management of trauma patients 1</b>	
	<b>Management of trauma patients 2</b>	
	<b>Management of trauma patients 3</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: 4 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 1</b>	
	<b>Airway management techniques 2</b>	
	<b>Airway emergencies 1</b>	
	<b>Airway emergencies 2</b>	
	<b>Obstructive lung diseases</b>	
	<b>Anesthesia of asthmatic patients 1</b>	
	<b>Anesthesia of asthmatic patients 2</b>	
	<b>Anesthesia of COPD patients 1</b>	
	<b>Anesthesia of COPD patients 2</b>	
	<b>Restrictive lung diseases 1</b>	
	<b>Obstructive lung diseases 2</b>	
	<b>Anesthesia of OSAS patients</b>	
	<b>Post-operative pulmonary complications</b>	



## **Ophthalmic anesthesia**

	<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 1</b>	
	<b>Anesthetic considerations for different eye surgeries 2</b>	
	<b>Anesthetic considerations for different eye surgeries 3</b>	
	<b>Rupture globe</b>	

## **Endocrine anesthesia**

	<b>Diabetic patients: pathophysiology</b>	
	<b>DM: anesthetic considerations</b>	
	<b>DM: peri-operative management</b>	
	<b>Diabetic emergencies</b>	
	<b>Hyperthyroidism: pathophysiology</b>	
	<b>Hyperthyroidism: anesthetic management</b>	
	<b>Hyperthyroidism: peri-operative management &amp; crisis</b>	
	<b>Hypothyroidism: pathophysiology</b>	
	<b>Hypothyroidism: anesthetic management</b>	
	<b>Hypothyroidism: peri-operative management &amp; coma</b>	
	<b>Hyperparathyroidism</b>	
	<b>Hypoparathyroidism</b>	



	<b>Cushing syndrome &amp; Conn's disease</b>	
	<b>Adreno-cortical crisis</b>	
	<b>Anesthesia for pheochromocytoma 1</b>	
	<b>Anesthesia for pheochromocytoma 2</b>	
	<b>Other endocrinal disorders</b>	
	<b>Hematological &amp; coagulation disorders 1</b>	
	<b>Hematological &amp; coagulation disorders 2</b>	
	<b>Hematological &amp; coagulation disorders 3</b>	
	<b>Peri-operative anesthetic problems 1</b>	
	<b>Peri-operative anesthetic problems 2</b>	
	<b>Peri-operative anesthetic problems 3</b>	
<b>Pediatric anesthesia</b>		
	<b>Physiological changes in pediatrics</b>	
	<b>Anesthetic 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: 4 Semester: (spring/fall/summer) year.....**

Date	Title of the lecture	Lecturer's signature
	<b>Definitions</b>	
	<b>Pain pathway 1</b>	
	<b>Pain pathway 2</b>	
	<b>Pain physiology 1</b>	
	<b>Pain physiology 2</b>	
	<b>Pain physiology 3</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>Chronic pain 3</b>	
	<b>Chronic pain 4</b>	
	<b>Pharmacological interventions</b>	
	<b>Anatomy of vertebral column, Epidural space &amp; dermatomal distribution 1</b>	



	<b>Anatomy of vertebral column, Epidural space &amp; dermatomal distribution 2</b>	
	<b>Anatomy of vertebral column, Epidural space &amp; dermatomal distribution 3</b>	
	<b>Degenerative changes in back pain</b>	
	<b>How to examine the back</b>	
	<b>Clinical presentation to LBP</b>	
	<b>Medical &amp; interventional treatment of LBP 1</b>	
	<b>Medical &amp; interventional treatment of LBP 2</b>	
	<b>Medical &amp; interventional treatment of LBP 3</b>	
	<b>Failed back surgery syndrome 1</b>	
	<b>Failed back surgery syndrome 2</b>	
	<b>Cancer pain 1</b>	
	<b>Cancer pain 2</b>	
	<b>Cancer pain 3</b>	
	<b>Types of neuropathic pain</b>	
	<b>Post-herpetic neuralgia 1</b>	
	<b>Post-herpetic neuralgia 2</b>	
	<b>Trigeminal neuralgia</b>	
	<b>Glossopharyngeal neuralgia</b>	
	<b>Diabetic neuralgia</b>	
	<b>Complex regional pain syndrome 1</b>	
	<b>Complex regional pain syndrome 2</b>	



	<b>Entrapment syndromes</b>	
	<b>Myofascial pain</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>Peripheral nerve blocks 4</b>	
	<b>Peripheral nerve blocks 5</b>	
	<b>Headache 1</b>	
	<b>Headache 2</b>	
	<b>Palliative care medicine 1</b>	
	<b>Palliative care medicine 2</b>	



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

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

**Credit hours: 2      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 1</b>	
	<b>Principles of U/S 2</b>	
	<b>Principles of U/S 3</b>	
	<b>Chest X-ray 1</b>	
	<b>Chest X-ray 2</b>	
	<b>Chest X-ray 3</b>	
	<b>CT chest 1</b>	
	<b>CT chest 2</b>	
	<b>CT chest 3</b>	
	<b>CT chest 4</b>	
	<b>CT chest 5</b>	
	<b>Brain CT 1</b>	
	<b>Brain CT 2</b>	
	<b>Brain CT 3</b>	
	<b>Brain CT 4</b>	
	<b>Brain CT 5</b>	
	<b>Cervical, thoracic &amp; lumbar X-ray 1</b>	
	<b>Cervical, thoracic &amp; lumbar X-ray 2</b>	
	<b>Cervical, thoracic &amp; lumbar X-ray 3</b>	
	<b>Cervical, thoracic &amp; lumbar X-ray 4</b>	
	<b>CT abdomen 1</b>	
	<b>CT abdomen 2</b>	
	<b>CT abdomen 3</b>	
	<b>FAST 1</b>	
	<b>FAST 2</b>	
	<b>FAST 3</b>	
	<b>FAST 4</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>80</b>
<b>Nasal endotracheal intubation</b>	<b>20</b>			<b>20</b>
<b>Supraglottic airway devices</b>	<b>40</b>			<b>40</b>
<b>Fiberoptic intubation</b>	<b>20</b>	<b>5</b>	<b>5</b>	<b>10</b>
<b>Difficult venous cannulation</b>	<b>30</b>			<b>30</b>
<b>Central vein catheterization</b>	<b>30</b>			<b>30</b>
<b>Pulmonary art. catheterization</b>	<b>5</b>	<b>5</b>		
<b>Arterial cannulation</b>	<b>20</b>			<b>20</b>
<b>Spinal anesthesia</b>	<b>70</b>			<b>70</b>
<b>Epidural anesthesia</b>	<b>40</b>			<b>40</b>
<b>Caudal anesthesia</b>	<b>10</b>			<b>10</b>
<b>Paravertebral anesthesia</b>	<b>15</b>		<b>5</b>	<b>10</b>
<b>U/S brachial plexus block</b>	<b>20</b>			<b>20</b>
<b>U/S regional nerve blocks</b>	<b>50</b>	<b>10</b>	<b>10</b>	<b>30</b>

















































# Section III: Clinical Rotation





## Clinical Rotation

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





## **Section IV: Seminars**






**2- Performance**

Topic	Date	Supervisor signature



# **Section V: Student Teaching Sections**



**List of requirements:**

**Student teaching sections: 5 times**

Date	Section subject	Supervisor's signature



# **Section VI: 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>5</b>	<b>3</b>	<b>1</b>	<b>1</b>



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

**Role:**

- Attendant
- Organizer
- Presenter