

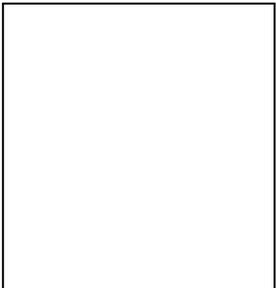


***Department of Anesthesia,
Surgical Intensive Care &
Pain Management***

Logbook of MD



Personal Data



Name:

Department:

Mobile Number:

E-mail Address:

MD Degree:

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

Signature:

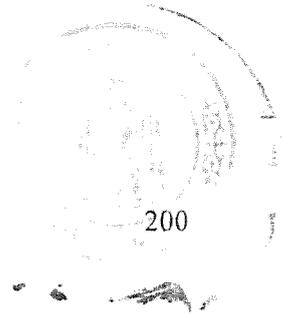
Head of the Department

Vice Dean for Research and Postgraduate Study

نظام الامتحانات وتوزيع الدرجات لمقررات الفصول الدراسية (دكتوراه تخدير وعناية مركزة جراحية وعلاج ألم)

الفصل الدراسي	المقرر	مدة الاختبار النهائي	درجة المقرر		
			أعمال فصلية (%20)	الاختبار النهائي (%80)	الدرجة الاجمالية
الفصل الدراسي الأول	امتحانات المقررات الدراسية الاجبارية المؤهلة والمذكورة في بند اول من الباب الرابع للائحة بمعرفة الدراسات العليا بالكلية.				
الفصول الدراسية الثاني والثالث والرابع	مقرر متقدم في الفيزياء الحيوية والقياسات الإكلينيكية	ساعة ونصف	20	80	100
	مقرر متقدم في التخدير جزء اول	ساعتين ونصف	30	120	150
	مقرر متقدم في التخدير جزء ثاني	ساعتين ونصف	30	120	150
	مقرر متقدم في التخدير جزء ثالث	ساعتين ونصف	30	120	150
	مقرر متقدم في العناية المركزة	ثلاث ساعات	40	160	200
	مقرر متقدم في علاج الألم	ثلاث ساعات	40	160	200
الفصل الدراسي الخامس	- المقرر الاختياري	ساعة ونصف	20	80	100
	المقرر التطبيقي الإكلينيكي التكاملي المتقدم في التخدير والعناية المركزة وعلاج الألم (الامتحان الإكلينيكي النهائي التكاملي المتقدم ويشتمل على: - محطات امتحانات إكلينيكية وشفوية في التخدير والعناية المركزة وعلاج الألم - امتحان شفوي في المقرر الاختياري		100	400	500
			المقرر التطبيقي التكاملي المتقدم في التخدير والعناية المركزة وعلاج الألم (الامتحانات)		

أ. د. عبد الله



38 - درجة الدكتوراة في التخدير والعناية المركزة الجراحية وعلاج الألم

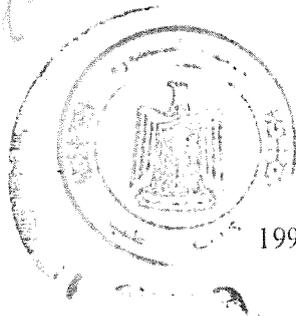
(ANET 628)

القسم الماتح للدرجة: قسم التخدير والعناية المركزة الجراحية وعلاج الألم
مسمى الدرجة: درجة الدكتوراة في التخدير والعناية المركزة الجراحية وعلاج الألم

Doctorate Degree in Anesthesia, Surgical Intensive care and Pain Management

المقررات الدراسية وتوزيع الساعات المعتمدة للفصول الدراسية

الساعات المعتمدة		الكود	Course	المقرر	الفصل
المقرر	الإجمالي				
8	8	مقررات دراسية اجبارية المذكورة في بند أولا من الباب الرابع من اللائحة			الفصل الدراسي الأول
22	2	ANET 628 ABCN	- Biophysics and Clinical Measurements (Advanced).	- مقرر متقدم في الفيزياء الحيوية والقياسات الإكلينيكية.	الفصول الدراسية الثاني والثالث والرابع
	4	ANET 628 AAN I	- Anesthesia part I (Advanced).	- مقرر متقدم في التخدير جزء أول.	
	3	ANET 628 AAN II	- Anesthesia part II (Advanced).	- مقرر متقدم في التخدير جزء ثاني.	
	3	ANET 628 AAN III	- Anesthesia part III (Advanced).	- مقرر متقدم في التخدير جزء ثالث.	
	5	ANET 628 AIC	- Intensive Care (Advanced).	- مقرر متقدم في العناية المركزة.	
	5	ANET 628 APM	- Pain Management (Advanced).	- مقرر متقدم في علاج الألم.	
10	8	ANET 628 AAAIP	- Applied Anesthesia, Intensive Care and Pain Management (Advanced).	- المقرر التطبيقي الإكلينيكي التكاملي المتقدم في التخدير والعناية المركزة وعلاج الألم. - مقرر اختياري (واحد فقط):	الفصل الدراسي الخامس
	Elective course (only one):				
	2	ANET 628 ARA	- Radiology in Anesthesia (Advanced).	- مقرر متقدم في الأشعة المرتبطة بالتخدير	
		ANET 628 AT	- Trauma (Advanced).	- مقرر متقدم في الاصابات.	
تخصص للرسالة والتدريب العملي والإكلينيكي المتقدم المتخصص					الفصول الدراسية السادس والسابع
20	20 ساعة معتمدة توزع على الفصول الدراسية من الرابع الى السابع				الرسالة
60	إجمالي الساعات المعتمدة				





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.



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

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

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



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	Flow principles and effects	
	Gas laws 1	
	Gas laws 2	
	Humidity 1	
	Humidity 2	
	Transducers 1	
	Transducers 2	
	Gas Chromatography & spectrometry	
	Measurement of O₂, Co₂, anesthetic agents	
	Measurement of H⁺	
	Gas supply system	
	Gas cylinders	
	Anesthesia machine 1	
	Anesthesia machine 2	
	Anesthesia machine 3	
	Anesthesia machine 4	
	Ventilator wave analysis 1	
	Ventilator wave analysis 2	
	Vaporizers 1	
	Vaporizers 2	
	Flowmeters	
	Anesthetic circuits 1	
	Anesthetic circuits 2	
	Oxygen delivery systems	
	Gas scavenging systems	
	ECG 1	
	ECG 2	



	Pulse oximetry	
	Capnography	
	Pulmonary artery catheterization	
	Non-invasive blood pressure monitoring	
	Invasive blood pressure monitoring	
	CVP monitoring	
	Temperature monitoring	
	COP monitoring	
	Blood flow measurement (Doppler)	
	Monitoring of CNS	
	Neuromuscular monitoring	
	Physics of patient positioning 1	
	Physics of patient positioning 2	
	ECHO physics 1	
	ECHO physics 2	
	The Operating Room safety 1	
	The Operating Room safety 2	
	Cardiac pacing and defibrillation 1	
	Cardiac pacing and defibrillation 2	
	Ultrasound 1	
	Ultrasound 2	
	Laser	
	MRI	
	Radiation physics	
	Energy and power	
	Fires and Explosions	



Name of the course: Anesthesia 1

Compulsory/Elective: Compulsory

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

Date	Title of the lecture	Lecturer's signature
Applied Pharmacology related to anesthesia, ICU& pain		
	Inhalational anesthetics 1	
	Inhalational anesthetics 2	
	Nonvolatile anesthetic drugs 1	
	Nonvolatile anesthetic drugs 2	
	Neuromuscular blocking agents	
	Adrenergic agonists& antagonists	
	Anticholinergics& cholinesterase inhibitors	
	Benzodiazepines	
	Opioids	
	Non-opioid analgesics	
	Adjuncts to anesthesia	



Date	Title of the lecture	Lecturer's signature
Obstetric anesthesia		
	Changes during pregnancy 1	
	Changes during pregnancy 2	
	Anesthesia for normal labor 1	
	Anesthesia for normal labor 2	
	Anesthesia for cesarian section 1	
	Anesthesia for cesarian section 2	
	Preeclampsia: pathophysiology	
	Preeclampsia: management 1	
	Preeclampsia: management 2	
	Eclampsia	
	Pre-partum hemorrhage: placenta previa	
	Pre-partum hemorrhage: types	
	Pre-partum hemorrhage:management	
	Post-partum hemorrhage: types	
	Post-partum hemorrhage: management	
	Obstetric patient & CVS diseases 1	
	Obstetric patient & CVS diseases 2	
	Obstetric emergencies 1	
	Obstetric emergencies 2	
	Anesthesia of pregnant for non-obstetric surgery 1	
	Anesthesia of pregnant for non-obstetric surgery 2	
CVS anesthesia& Cardio-thoracic surgery		
	Cardiac cycle	



	Coronary circulation	
	Waveform analysis	
	Drugs acting on CVS system	
	Pharmacology of anesthetic drugs related for cardiac surgery	
	Pharmacology of anticoagulants&antiplatelet drugs related for cardiac surgery	
	Anesthetic considerations of HTN	
	Anesthetic considerations of IHD	
	Anesthetic considerations of HF	
	Anesthetic considerations of cardiomyopathy	
	Anesthetic management of valvular diseases 1	
	Anesthetic management of valvular diseases 2	
	Anesthetic management of congenital heart diseases	
	Anesthetic management of pulmonary HTN	
	Cardiopulmonary bypass machine 1	
	Cardiopulmonary bypass machine 2	
	PH& alpha state	
	Anesthetic management for valve replacement surgery 1	
	Anesthetic management for valve replacement surgery 2	
	Anesthetic management for CABG surgery	
	Anesthesia for pediatric cardiac surgery	
	Anesthetic management for congenital heart surgery	



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



Name of the course: Anesthesia 2

Compulsory/Elective: Compulsory

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

Date	Title of the lecture	Lecturer's signature
Neuro-anesthesia		
	Neuro-anatomy	
	Radiology of CNS	
	Neurophysiology	
	Neuro-physiologic monitoring	
	Effect of anesthetic drugs on CNS physiology	
	Blood brain barrier	
	Brain protection	
	CSF physiology	
	Intra-cranial pressure	
	Head trauma 1	
	Head trauma 2	
	Anesthesia of supra-tentorial tumors	
	Anesthesia of infra-tentorial tumors	
	Anesthesia of posterior fossa tumors	
	Anesthesia of cerebral aneurysm 1	
	Anesthesia of cerebral aneurysm 2	
	Pituitary tumours	
	Spinal cord trauma	



	Anesthesia of spine surgery	
	Anesthesia of carotid end-arterectomy	
	Neuromuscular transmission&monitoring	
	Patient positioning	
	Awake craniotomy	
	Pediatric neuro-anesthesia 1	
	Pediatric neuro-anesthesia 2	
	Neuro-psychiatry: physiology	
	Anesthetic consideration for psychiatric diseases	

GIT& Bariatric anesthesia

	Hepatic physiology	
	Drugs acting on GIT	
	Anesthesia for laparoscopy 1	
	Anesthesia for laparoscopy 2	
	Anesthetic consideration for LCF 1	
	Anesthetic consideration for LCF 2	
	Anesthetic considerations for hepatic transplant patient 1	
	Anesthetic considerations for hepatic transplant patient 2	
	Anesthetic considerationsfor Intestinal obstruction	
	Physiological changes in morbid obesity 1	
	Physiological changes in morbid obesity 2	
	Anesthetic consideration for bariatric surgery	



Orthopedic anesthesia

	Geriatric physiology	
	Spinal anesthesia	
	Epidural & caudal anesthesia	
	Complications of neuro-axial anesthesia	
	Regional anesthesia 1	
	Regional anesthesia 2	
	Anesthesia for myasthenia gravis	
	Anesthesia for other musculoskeletal diseases	
	Malignant hyperthermia	
	Anesthetic considerations for trauma patients 1	
	Anesthetic considerations for trauma patients 2	
	Total hip and knee replacement surgery	
	Bone cement syndrome	

ENT anesthesia

	Post-tonsillectomy bleeding	
	Anesthetic considerations for surgeries on nose and para-nasal sinuses	
	Anesthetic considerations for ear surgeries	
	Anesthetic considerations for laryngeal surgeries	
	Anesthesia for surgeries on upper air way 1	
	Anesthesia for surgeries on upper air way 2	
	Post-extubation laryngeal edema & croup	
	Hypotensive anesthesia	



	Maxillofacial & dental anesthesia	
	Anesthetic considerations for Laser surgery	
	Special equipments for ENT surgeries	





Name of the course: ICU

Compulsory/Elective: Compulsory

Credit hours: 5 Semester: (spring/fall/summer) year.....

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



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	Enteral and parenteral nutrition 6	
	Acid–base balance 1	
	Acid–base balance 2	
	Acid–base balance 3	
	Acid–base balance 4	
	Acid–base balance 5	
	Fluid & electrolyte disturbances 1	
	Fluid & electrolyte disturbances 2	
	Fluid & electrolyte disturbances 3	
	Fluid & electrolyte disturbances 4	
	Fluid & electrolyte disturbances 5	
	Arrhythmia 1	
	Arrhythmia 2	
	Arrhythmia 3	
	Acute coronary syndrome 1	
	Acute coronary syndrome 2	
	Pulmonary embolism 1	
	Pulmonary embolism 2	
	Pulmonary embolism 3	
	ARDS 1	
	ARDS 2	
	ARDS 3	
	Aspiration pneumonitis 1	
	Aspiration pneumonitis 2	
	Sepsis & septic shock: pathophysiology 1	
	Sepsis & septic shock: pathophysiology2	
	Sepsis & septic shock: management 1	



	Sepsis & septic shock: management 2	
	Sepsis & septic shock: management 3	
	Sepsis & septic shock: management 4	
	Sepsis & septic shock: management 5	
	Management of burn 1	
	Management of burn 2	
	Management of burn 3	
	Intracranial hypertension 1	
	Intracranial hypertension 2	
	Coagulation cascade 1	
	Coagulation cascade 2	
	Coagulation cascade 3	
	Thromboelastography 1	
	Thromboelastography 2	
	Thromboelastography 3	
	Fluid & blood components 1	
	Fluid & blood components 2	
	Fluid & blood components 3	
	Diabetic comas 1	
	Diabetic comas 2	
	Management of trauma patients 1	
	Management of trauma patients 2	
	Management of trauma patients 3	
	Delirium	
	Post-operative complications 1	
	Post-operative complications 2	



Name of the course: Anesthesia 3

Compulsory/Elective: Compulsory

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

Date	Title of the lecture	Lecturer's signature
Respiratory anesthesia		
	Respiratory physiology 1	
	Respiratory physiology 2	
	Interpretation of PFTs	
	Drugs acting on respiratory systems	
	Difficult airway: assessment	
	Difficult airway: management	
	Airway management techniques 1	
	Airway management techniques 2	
	Airway emergencies 1	
	Airway emergencies 2	
	Obstructive lung diseases	
	Anesthesia of asthmatic patients 1	
	Anesthesia of asthmatic patients 2	
	Anesthesia of COPD patients 1	
	Anesthesia of COPD patients 2	
	Restrictive lung diseases 1	
	Obstructive lung diseases 2	



	Anesthesia of OSAS patients	
	Post-operative pulmonary complications	

Ophthalmic anesthesia

	Anatomy of the eye	
	Techniques of local ocular anesthesia	
	Effect of anesthesia on IOP	
	Oculo-cardiac reflex	
	Anesthetic considerations for different eye surgeries 1	
	Anesthetic considerations for different eye surgeries 2	
	Anesthetic considerations for different eye surgeries 3	
	Rupture globe	

Endocrine anesthesia

	Diabetic patients: pathophysiology	
	DM: anesthetic considerations	
	DM: peri-operative management	
	Diabetic emergencies	
	Hyperthyroidism: pathophysiology	
	Hyperthyroidism: anesthetic management	
	Hyperthyroidism: peri-operative management & crisis	
	Hypothyroidism: pathophysiology	
	Hypothyroidism: anesthetic management	
	Hypothyroidism: peri-operative management & coma	



	Hyperparathyroidism	
	Hypoparathyroidism	
	Cushing syndrome & Conn's disease	
	Adreno-cortical crisis	
	Anesthesia for pheochromocytoma 1	
	Anesthesia for pheochromocytoma 2	
	Other endocrinal disorders	
	Hematology physiology	
	Hematological & coagulation disorders 1	
	Hematological & coagulation disorders 2	
	Hematological & coagulation disorders 3	
	Peri-operative anesthetic problems 1	
	Peri-operative anesthetic problems 2	
	Peri-operative anesthetic problems 3	
Pediatric anesthesia		
	Physiological changes in pediatrics	
	Anesthetic considerations for pediatric surgery	
	Congenital diaphragmatic hernia	
	Trachea-esophageal fistula	
	Pyloric stenosis	
	Anesthesia for cleft lip & palate	
	Neonatal anesthesia	
	Day case surgery	
	Sedation	



	Pediatric emergencies	
	Upper airway endoscopy	
	Upper GIT endoscopy	

Name of the course: Pain

Compulsory/Elective: Compulsory

Credit hours: 5 Semester: (spring/fall/summer) year.....

Date	Title of the lecture	Lecturer's signature
	Definitions	
	Pain pathway 1	
	Pain pathway 2	
	Pain physiology 1	
	Pain physiology 2	
	Pain physiology 3	
	Pain measurement	
	Acute post-operative pain1	
	Acute post-operative pain 2	
	Stress response	
	Chronic pain 1	
	Chronic pain 2	
	Chronic pain 3	
	Chronic pain 4	



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



	Complex regional pain syndrome 1	
	Complex regional pain syndrome 2	
	Entrapment syndromes	
	Myofascial pain	
	Sympathetic blocks	
	Stellate ganglion block	
	Celiac plexus block	
	Splanchnic nerve block	
	Hypogastric plexus block	
	Ganglion impar block	
	Paravertebral block	
	Neurolytic blocks & radiofrequency ablation	
	Somatic blocks 1	
	Somatic blocks 2	
	Brachial plexus block	
	Bier block	
	Peripheral nerve blocks 1	
	Peripheral nerve blocks 2	
	Peripheral nerve blocks 3	
	Peripheral nerve blocks 4	
	Peripheral nerve blocks 5	
	Headache 1	
	Headache 2	



Name of the course: Radiology related to anesthesia

Compulsory/Elective: Elective

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

Date	Title of the lecture	Lecturer's signature
	Principles of X-ray	
	Principles of CT scan	
	Principles of MRI	
	Principles of U/S 1	
	Principles of U/S 2	
	Principles of U/S 3	
	Chest X-ray 1	
	Chest X-ray 2	
	Chest X-ray 3	
	CT chest 1	
	CT chest 2	
	CT chest 3	
	CT chest 4	
	CT chest 5	
	Brain CT 1	
	Brain CT 2	
	Brain CT 3	
	Brain CT 4	
	Brain CT 5	
	Cervical, thoracic & lumbar X-ray 1	
	Cervical, thoracic & lumbar X-ray 2	
	Cervical, thoracic & lumbar X-ray 3	
	Cervical, thoracic & lumbar X-ray 4	
	CT abdomen 1	
	CT abdomen 2	
	CT abdomen 3	
	FAST 1	
	FAST 2	
	FAST 3	
	FAST 4	



Section II: Procedures



List of requirements

Name of the procedure	Total number required	Observer	Assistant	Independent
Oral endotracheal intubation	80			80
Nasalendotracheal intubation	20			20
Supraglottic airway devices	40			40
Fiberoptic intubation	20	5	5	10
Difficult venouscannulation	30			30
Central vein catheterization	30			30
Pulmonary art. catheterization	5	5		
Arterial cannulation	20			20
Spinal anesthesia	70			70
Epidural anesthesia	40			40
Caudal anesthesia	10			10
Paravertebral anesthesia	15		5	10
U/S brachial plexus block	20			20
U/S regional nerve blocks	50	10	10	30



Section III: Clinical Rotation



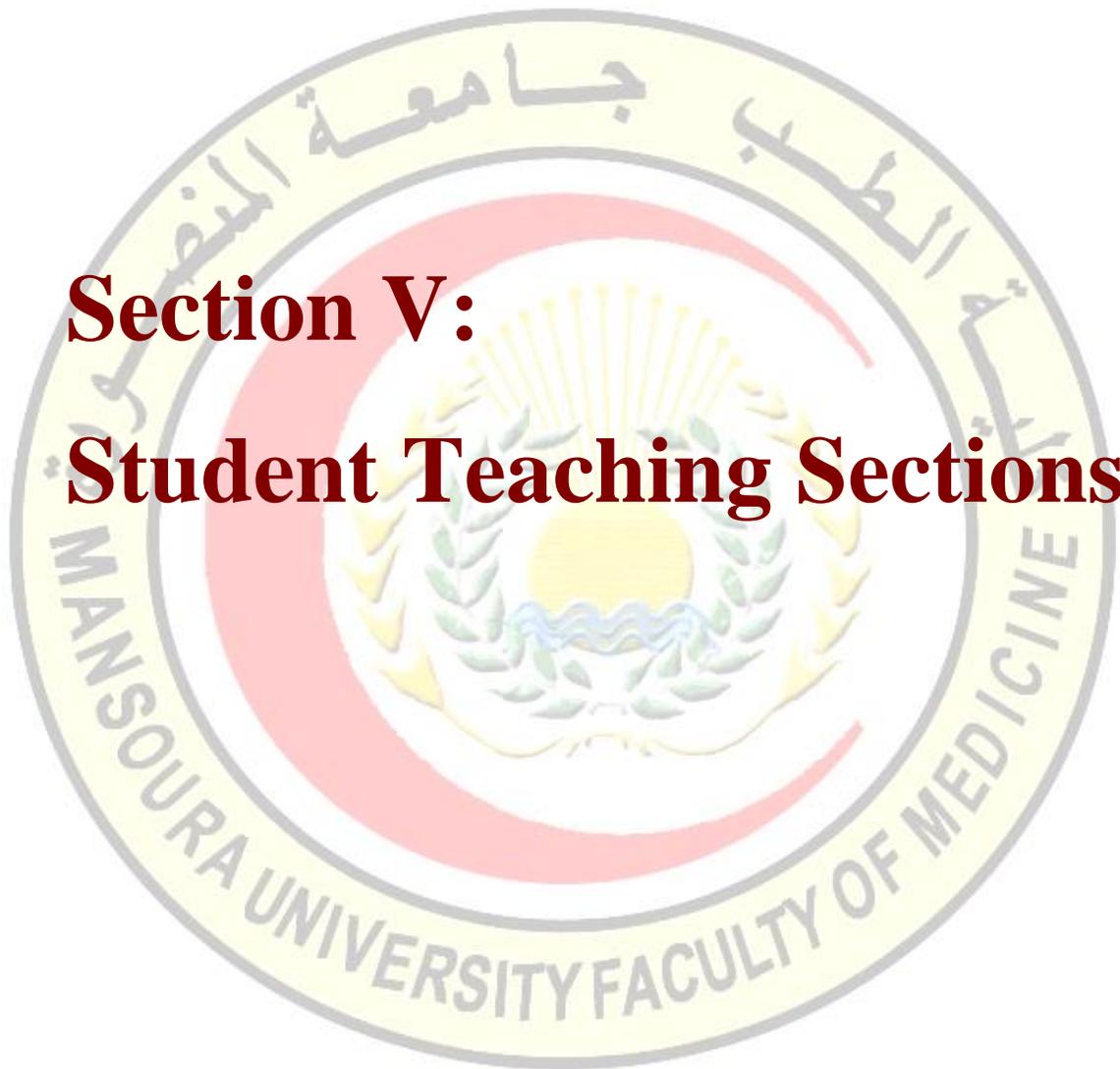


Section IV: Seminars



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:

Conferences			
Total number required	Attendance	Organization	Presentation
3	3		
Workshops			
Total number required	Attendance	Organization	Presentation
5	3	1	1



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

Role:

- Attendant
- Organizer
- Presenter