Specialization	Anesthesia
Course Number	02801111
Course Title	Ambulatory Anesthesia
Credit Hours	2
Theoretical Hours	2
Practical Hours	0

❖ This course provides the anesthesia assistant technician student with basic information regarding the anesthesia outside operating rooms in addition to Day Case surgeries. The course will concentrate on the concepts, rules, and regulations controlling the ambulatory anesthesia and the use of medications in addition to managing the anesthesia tools and controlling patient's factors and the role of the anesthesia assistant technician in the process of medication administration.

Course Objectives:

At the end of this course the students should:

- **1- Know preoperative considerations** regarding anesthesia outside operating rooms in addition to Day Case surgeries.
- 2- know the concepts, rules, and regulations controlling the ambulatory anesthesia
- **3-** know the use of medications in addition to managing anesthesia tools and controlling patient's factors and the role of the anesthesia assistant technician in the process of medication administration

Time Needed	Course Description: Unit Name	Unit Content	Unit Number
1.	Introduction	 Advantages of Ambulatory Anesthesia Contraindications Influence of age 	
2.	Preoperative considerations	 Site considerations Surgical case selection Patient selection Laboratory evaluation Premedication 	
3.	Intraoperative considerations	 Anesthetic techniques and pharmacological consideration General anaesthesia Regional anaesthesia Nerve blocks, Bier's block MAC and Conscious sedation Monitoring Pharmacological considerations Induction agents Inhalational agents Analgesic agents 	
4.	Postoperative considerations	 PACU Complications Nausea and Vomiting Post operative pain Discharge criteria and Home readiness Recovery room discharge criteria PARS score 	
5.	Anesthesia outside operating room locations	 Anesthetic techniques and management Usual procedures Places ICU Radiology (diagnostic, interventional and radiotherapy) ER GI Unit Cardiac Unit ECT Ambulance and transfer of patients 	

Teaching Methodology:

Lectures. Group discussion. Videos. Live patterns & samples. Practical applications. Field Visits (Industries).

Text Books & References:

- 1. Clinical Anesthesiology, 4th edition.
- 2. Day case anesthesia and sedation, Whiteman, Blackwell, 1994
- 3. A Practice of Anesthesia, Wylie and Churchill-Davidson's, 7th edition

Specialization	Anesthesia
Course Number	020801112
Course Title	Anesthesia Instruments
Credit Hours	(2)
Theoretical Hours	(2)
Practical Hours	(0)

Brief Course Description	1:
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This course provides the anesthesia assistant technician student with basic knowledge regarding Anesthesia Instruments. The course will concentrate on Introducing these instrument to the student. It also concentrates on the way such instrument is built and its application in daily clinical practice. It also explains the way such instruments are maintained and make it ready to use.

☐ Course Objectives:

At the end of this course the students should:

- 1-Know the basic knowledge regarding Anesthesia Instruments.
- 2-Know the way such instruments are built and their application in daily clinical practice.
- 3-Be able to explain the way such instruments are maintained and made ready to get in use.



	Course Description:		
Time Needed	Unit Content	Unit Name	Unit Number
1.	Introduction	 Historical Background 	
		 Disposable Elements 	
		– Cannulae	
		Injections	
		– Needles	
		 Multiple Use Elements 	
		Face Masks	
		– Airways	
		 Laryngoscopes 	
		- Forceps	
		• Magill	
		• Ellison	
		Connections.	
2.	Anesthesia Machines	 General Design & Attached Equipments 	
		 Medical Gases 	
		- Central supply	
		- Cylinders	
		 Vaporizers 	
		Flowmeters	
		 CO2 Absorper 	
		Electronic Display Screen	
		Types of Anesthesia Machines	
3.	Anesthesia Circuits	 Closed Systems 	
		Semi closed Systems	
		Check Out List	
		- Elements of Check Out List	
		- Application	
		• Daily	
		Weekly	
		• Monthly	
4.	Patient Monitors	Patient Monitors FOG M. L.:	
		- ECG Machine	
		- Machine	
		- Leads	

		Blood Pressure Monitors
		- Invasive
		- Non-Invasive
		Pulse Oximetery
		- Ear Probe
		- Finger Probe
		Capnography
		- Structure
		- Contents
		- Mechanism of Action
		- Expiry signs
		Bispectral Index (BIS) Monitor
		- Awarness
		- Mechanism
		- Leads Distribution
		DC Shock Machine
		- Structure & Principles
		- Peddles
		- Indication.
5.	Suction Machines	Suction Machines
		- Types
		- Uses
		- Suction Tubes
		Regional Anesthesia Instruments
		- Spinal
		- Epidural
		- Intravenous(Bier's)
		- Peripheral Nerves
		- Nerve Stimulator
		• In Nerve Blocks
		As Muscle Relaxant Action Monitoring
6.	Maintenance	Maintenance:-
0.	iviamice	- Daily
		- Weekly
		- Monthly
		 Rules of How to Handle Various
		Instruments
		The state of the s
		W SUBSECTION OF THE SECOND

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Teaching Methodology:

☐ Lectures.Group discussion.Videos.Live patterns & samples.Practical applications.Field Visits (Industries).

Text Books & References:

- 1. Principle of Measurement for the anesthetist. Stykes & Vickers,
- 2. Monitoring Practice in Clinical Anesthesia, J.S Gravenstein, David A. Poulus, J.B Lippincott



Specialization	Anesthesia
Course Number	020801113
Course Title	Anesthesia Basic Physics
Credit Hours	(2)
Theoretical Hours	(2)
Practical Hours	(0)



This course provides the anesthesia assistant technician student with basic knowledge regarding physics related to Anesthesia. The course will concentrate on the Gas laws, Fluid mechanics, and conditions regarding the gas exchange across lungs and the physical principles that control it. It also concentrate on how some of the machines operate like monitors in OR. It also gives some emphasis on the dangers encountered in OR and how to handle.

Course Objectives:

At the end of this course the students should:

- 1-Know the basic basic knowledge regarding physics related to Anesthesia.
- 2- Know the Gas laws, Fluid mechanics, and conditions regarding the gas exchange across lungs and the physical principles that control it.
- 3- Know how some of the machines operate like monitors in OR and the dangers encountered in OR and how to handle them



	Course Description:		T124
Time Needed	Unit Content	Unit Name	Unit Number
1.	Gases	Physics	
		Laws	
		Applications	
		- Vaporizers	
		- Cylinders & Pipes	
		- Anesthesia Machine	
		Fluids	
		- Mechanics	
		- Laws	
		- Applications	
2.	Gas Exchange	Alveolo-capillary Exchange	
		Diffusion	
		Solubility	
		Partition Coefficient	
3.	Electricity	Static Electricity	
		- How it is formed	
		- Hazards	
		Alternating Currents	
		- Laws	
		- Use in Instruments	
		- Dangers & Precautions	
		Anesthetic Instruments	
		- Design	
4	T	- Safety Standards	
4.	Temperature & Humidity	Regulatory Mechanisms	
		ImportanceMeasuring Instruments	
		\mathcal{E}	
		DiathermyUnipolar	
		- Bipolar	
5.	Hazards		
٥.	Hazarus	Safety Standards in Operating Rooms Burns, Electrical Shock & Ventricular	
		Fibrillation	
		Fires & Explosions	
		Gas Leak in OR.	
		U Gas Leak III OIK.	

Tea	ching Methodology: Lectures.Group disc Visits (Industries)	ussion.Videos.Live	patterns & samp	les.Practical appli	cations.Field

Text Books & References:

- 1. Physics for the Anesthetists, Makintosh, Epstein & Mushin.
- 2. A synopsis of Anesthesia, R.S. Atkinson, G.B. Tushman



Specialty	Anesthesia
Course Number	020801121
Course Title	Basics in Nursing Care
Credit Hours	(2)
Theoretical Hours	(1)
Practical Hours	(3)



This course provides the anesthesia assistant technician student with basic knowledge regarding nursing care of the surgical patients. The course will concentrate on the contents, personnel, and conditions regarding the care of surgical patients in the evening of the operation and on the next morning until the patient once again in the floor. Steralization techniques are mentioned here also.

Course Objectives:

At the end of this course the students should be able to:

- 1-Know the basic knowledge regarding nursing care which should b provided to the surgical patients.
- 2-Know Morning & Evening Care of Surgical Patients
- 3-Know the principles of Sterility & Sterilization
- 4- Management of some activities of the nursing process



Unit Number	Unit Name	Unit Content	Time Needed
.1	Introduction to Nursing Care	 Definition of Nursing Historical Back Ground Inter-Personal relations Duties of the Nurse 	
.2	Management of some of the nursing process	Vital SignsInjections	
.3	Patient Care	 Preoperative Care & Preparation for Anesthesia & Surgery Receiving the Patient for Operation Confirmation of the Procedure Identity Check Personal Items Morning lab Tests checking Overnight Fasting Care of Pediatric Patients Recovery Room Receiving Post Operative Patient Monitoring Analgesia Patient Discharge 	
.4	Morning & Evening Care of Surgical Patients	 Morning Care Evening Care Nutrition Enemas 	
.5	Sterility & Sterilization	 Sterility in OR Infection Control Disinfectants Methods of Sterilization 	

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Teaching Methodology:

Lectures, handouts, Audiovisuals aids

Text Books & References:

- 1. Fundamentals of Nursing, the art of science & Nursing care, 4th edition.
- 2. Fundamental Skills in Patient Care, 4th edition.
- 3. Handbook for Nurse Anesthesia, 1996



Specialization	Anesthesia
Course Number	020801122
Course Title	Cardiopulmonary Resuscitation
Credit Hours	2
Theoretical Hours	1
Practical Hours	3



This course provides the anesthesia assistant technician student with basic knowledge regarding CPR. The course will concentrate on the various steps governing CPR weather basic life support or advance one; it also explains the role of certain medications in the process of CPR. It also defines some of the conditions that need immediate concern and explains the neonatal resuscitation.

Course Objectives:

At the end of this course the students should be able to:

- 1. Know the basic knowledge of how CPR is done
- 2. Know the conditions that need immediate concern and explains the neonatal resuscitation.



Time Needed	Unit name	Unit Content	Time Needed
1.	Cardio-Respiratory Arrest	 Causes of arrest Principles of Resuscitation Basic Life Support (BLS). Advanced Cardiac Life Support (ACLS). Drugs used in C.P.R. Termination of C.P.R. Outcome and further management D.N.R. 	
2.	Shock	TypesClinical pictureManagement.	
3.	Oxygen	 Cascade Hypoxia Oxygen Therapy Indications Methods Hazards 	
4.	Drowning and Near- drowning		
5.	Neonatal Resuscitation		



Teaching Methodology:

Lectures

Text Books & References:

- 1. Clinical Anesthesiology, 4th edition.
- 2. A Practice of Anesthesia, Wylie and Churchill-Davidson's, 7th edition.



Specialization	Anesthesia
Course Number	020801131
Course Title	General Anesthesia I
Credit Hours	(3)
Theoretical Hours	(1)
Practical Hours	(6)



This course provides the anesthesia assistant technician student with basic knowledge regarding General Anesthesia. The course will concentrate on the preoperative evaluation and the three stages of anesthetic intervention, namely the induction, the maintenance and the emergence periods and finally the role of PACU in OR

Course Objectives:

At the end of this course the students should be able to:

- 1-Know the principles of General Anesthesia
- **2- Know how** the preoperative evaluation is done and the three stages of anesthetic intervention, namely the induction, the maintenance and the emergence periods
- 3- Know the role of PACU in OR



Time Needed	Unit Name	Unit Content	Unit Number
1.	Premedication	 Patient Assessment Preoperative visit History and Physical Examination Drugs of Premedication sedatives antisialagogues analgesics own medications antacids, anti-emetics Others, antibiotics, SBE prophylaxis, etc Patient Preparation rules of fasting shaving and enemas timing for the procedure and drugs administration Drugs and lab tests required in the morning of surgery. 	
2.	Induction	 Positions and Monitors Drugs Intravenous Inhalational Rapid sequence induction Complications encountered 	
3.	Endotracheal Intubation	 Instruments Indications Contraindications Procedures of different techniques Oral intubation. nasal intubation 	

	I	
		- Fiberoptic intubation.
		- Retrograde intubations.
		- Tracheostomy.
		- Others.
		■ Difficult intubation and
		management
		 Complications encountered
4.	Maintenance of	Monitoring
	Anaesthesia	- Non-Invasive
		- Invasive
		Drugs
		- Intravenous Hypnotics
		- Inhalational
		- Muscle relaxants
		- Analgesia
		- Medical Gases
		Techniques
		- Inhalational
		- TIVA
		- Pumps
		 Complications encountered
5.	Emergence and Recovery	Termination of Anaesthesia
		 Analgesia for Postoperative period
		Reversal of drugs' actions
		Extubation
		■ PACU
		 Complications encountered.



Teaching Methodology:

Lectures. Group discussion. Videos. Live patterns & samples. Practical applications. Field Visits (Industries).

Text Books & References:

- 1. Clinical Anesthesiology, 4th edition.
- 2. A Practice of Anesthesia, Wylie and Churchill-Davidson's, 7th edition.
- 3. Introduction to the practice of Anesthesia, Monte Lichtiger & Frank Moya



Specialization	Anesthesia
Course Number	020801231
Course Title	General Anesthesia 2
Credit Hours	(3)
Theoretical Hours	(1)
Practical Hours	(6)



This course provides the anesthesia assistant technician student with basic knowledge regarding General anesthesia for various conditions. The course will also concentrate on the complication encountered with each system it also mention some of the conditions that affect general anesthesia such as alcoholism, obesity and burns.

Course Objectives:

At the end of this course the students should be able to:

- 1- Know the general anesthesia for various conditions
- 2- Know the complications encountered with each system
- 3- Know the conditions that affect general anesthesia such as alcoholism, Obesity and burns.



Time Needed	Unit Name	Unit Content	Unit Number
1.	Cardiovascular Anesthesia	 Cardiopulmonary Bypass (CPB) Pacemakers Thoracic Anaesthesia One Lung Anaesthesia Thoracotomy Bronchoscopy 	
2.	Head and Neck	 Neurosurgical Anaesthesia ENT and Maxillofacial Anesthesia Ophthalmic Anesthesia 	
3.	Other Systems	 Gastrointestinal Tract and Laparoscopic Anesthesia Obstetric, Gynaecologic and Urologic Anesthesia. Orthopaedic Anesthesia Oncologic Anesthesia 	
4.	Age Related	Pediatric AnesthesiaGeriatric Anesthesia	
5.	Other Topics	AlcoholismObesityBurnsHypotensive Anesthesia	

Teaching Methodology:

Lectures. Group discussion. Videos. Live patterns & samples. Practical applications.

Text Books & References:

- 1. Clinical Anesthesiology, 4th edition.
- 2. A Practice of Anesthesia, Wylie and Churchill-Davidson's, 7th edition.
- 3. Oxford Text Book of Anesthesia



Specialization	Anesthesia
Course Number	020801241
Course Title	Intensive Care Unit
Credit Hours	(2)
Theoretical Hours	(1)
Practical Hours	(3)



This course provides the anesthesia assistant technician student with basic knowledge regarding Intensive Care Unit. The course will concentrate on the contents, personnel, and conditions regarding the control of ICU atmosphere, Instruments and with special emphasis on hazards encountered in ICU. It also defines some of the medical conditions that need ICU admission.

Course Objectives:

At the end of this course the students should be able to:

- 1- Know the Intensive Care Unit as a whole
- 2- Know the conditions of the intensive care unit and the management of its atmosphere
- 3- Know the Instruments and with special emphasis on hazards encountered in ICU
- 4- Know how patients Care in the ICU is achieved



Time Needed	Unit Content	Unit Name	Unit Number
1.	Introduction	☐ Arrangement, Contents and Beds.	
		☐ Types of patients admitted to	
		ICU.	
		☐ General Policy in ICU.	
		☐ Legal and Ethical issues	
2.	Monitoring Systems	☐ Non-invasive	
		□ Invasive	
3.	Mechanical Ventilators	☐ Classification.	
		☐ Modes of Ventilation.	
		 Attachment and Weaning 	
		☐ Drugs used in the ICU.	
4.	Care of patients in the	☐ Respiratory and Ventilator care.	
	ICU	☐ Nursing care.	
		☐ Feeding, Nutrition and TPN.	
		☐ Physiotherapy	
5.	Special Issues	□ Poisoning	
		☐ Brain Death	

Text Books & References:

- 1. Clinical Anesthesiology, 4th edition.
- 2. A Practice of Anesthesia, Wylie and Churchill-Davidson's, 7^{th} edition.
- 3. The ICU Book, 3ed edition, 2006, Marino PL



Specialization	Anesthesia
Course Number	020801251
Course Title	Internal Medicine & Anesthesia
Credit Hours	(3)
Theoretical Hours	(3)
Practical Hours	(0)



This course provides the anesthesia assistant technician student with basic information regarding the medical disease. The course will concentrate on the concepts, rules, and regulations controlling the way to handle medical diseases pre, intra and postoperatively.

Course Objectives:

At the end of this course the students should be able to:

- 1-Get an idea about the human diseases such as :" Respiratory System, Cardiovascular System, Endocrine System, Hepatic System and Central Nervous System
- **2-** Know the concepts, rules, and regulations controlling the way to handle medical diseases pre, intra and postoperatively



Unit Number	Unit Name	Unit Content	Time Needed
1.	Respiratory System:-	 □ Vitalogram □ Acute Infections - Upper Respiratory Tract Infections - Acute Epiglottitis - Pneumonia □ chronic Lung Diseases - Chronic Bronchitis. - Emphysema. - Restrictive Lung Diseases - Bronchial Asthma □ Pleural Diseases - Pleural Effusion. - Pneumothorax □ Others - Pulmonary Embolism. - Respiratory Failure and ARDS. 	
2.	Cardiovascular System	 ☐ Heart Failure ☐ Ischemic Heart Diseases - Atherosclerosis - Angina - Myocardial Infarction ☐ Hypertension 	
3.	Endocrine System	 □ Pituitary Gland □ Thyroid Gland. □ Parathyroid Glands □ Adrenal Glands. □ Pancreas 	

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4.	Hepatic System	☐ Jaundice.		
		☐ Hepatitis		
		☐ Renal System:-		
		- Renal Stones		
		- Acute Renal Failure		
		- Chronic Renal Failure		
		- Acid-Base balance.		
5.	Central Nervous System	☐ Intracranial Pressure.		
		☐ Trauma and GCS		
		☐ Haemorrhage		



Lectures. Group discussion. Videos. Live patterns & samples. Practical applications. Field Visits (industries).

Text Books & References:

- 1. Davidson's Principles and practice of Medicine, John McLeod
- 2. Clinical Anesthesiology, 4th edition.
- 3. A Practice of Anesthesia, Wylie and Churchill-Davidson's, 7th edition



Specialization	Anesthesia
Course Number	020801232
Course Title	Local & Regional Anesthesia
Credit Hours	(2)
Theoretical Hours	(1)
Practical Hours	(3)



This course provides the anesthesia assistant technician student with basic knowledge regarding local & regional anesthesia. The course will concentrate on the concepts, rules, and regulations controlling local & regional anesthesia and the use of medications in addition to managing the anesthesia tools and controlling patient's factors and the role of the anesthesia assistant technician in the process of instruments knowledge and preparations

Course Objectives:

At the end of this course the students should be able to:

- 1-Have an idea of local and regional anesthesia
- 2- Know the rules, and regulations controlling local & regional anesthesia and the use of medications
- 3- Know how to manage the anesthesia tools
- 4-Realize the role of the anesthesia assistant technician in the process of instruments knowledge and preparations



Detailed Course Description:			
Unit Number	Unit Name	Unit Content	Time Needed
1.	Introduction	Theories of L.A. action	
		Pharmacokinetics &Pharmacodynamics	
		Structure activity relationship	
2.	General Principles	Pharmacology of L.A. Drugs	
2.	General i incipies	 Classification 	
		 Aesthetic management of 	
		different techniques.	
3.	Regional Anesthesia	Spinal Anesthesia	
		Epidural Anesthesia	
4.	Plexuses Blocks	Caudal AnesthesiaUpper limb Blocks	
₹•	T ICAUSES DIOCKS	 Lower limb Blocks 	
5.	Peripheral Nerves Blocks	Intravenous(Bier's) Block	
	¥ 1 11 11 11 11 11 11 11 11 11 11 11 11	 Upper limb nerves' Blocks 	
	***************************************	 Lower limb nerves' Blocks 	
		 Intercostal nerves' Blocks 	
		Penile Block	
		 Vasoconstrictors 	



Lectures. Group discussion. Videos. Live patterns & samples. Practical applications. Field Visits (Industries).

Text Books & References:

Text Books:

- 1. Regional Anesthesia, W. Hoerster, H. Kreuscher and M. Zenz, 4th edition.
- 2. Clinical Anesthesiology, 4th edition.
- 3. A Practice of Anesthesia, Wylie and Churchill-Davidson's, 7th edition.



Specialization	Anesthesia
Course Number	020801242
Course Title	Operating Rooms
Credit Hours	(3)
Theoretical Hours	(1)
Practical Hours	(6)



This course provides the anesthesia assistant technician student with basic knowledge regarding operating rooms. The course will concentrate on the contents, personnel, and conditions regarding the control of OR atmosphere, sterility and scavenging systems with special emphasis on hazards encountered in OR. It also defines the duties of each worker in the area and the interpersonal relationships and their relevance to team work

Course Objectives:

At the end of this course the students should be able to:

- 1- Have complete knowledge of operating rooms
- 2- Know the principles of the patient receiving in the holding area
- **3-** Get accustomed with the contents, personnel, and conditions regarding the control of OR atmosphere, sterility and scavenging systems
- 4- Realize hazards encountered in OR.



Unit Number	Unit Name	Unit Name	Time Needed
1.	Introduction	 History and Development Construction and Design of OR Contents Rules in ORs Medical Gases in OR 	
2.	The Patient	 Receiving the patient in the holding area Procedures to be confirmed Assessment Operation List Patient ID identification Patient evaluation Chart Review Transport 	
3.	The Team	 Persons and Duties Anaesthesia team Surgical team Nursing team Teams Interactions Incident Reporting Continuous Medical Education within OR 	
4.	OR Environment	 Sterlity Personnel OR Instruments Surgical field Anesthetic Instruments and Circuits Atmosphere 	

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		 Temperature Humidity Ventilation Pollution and Scavenging Anesthetic Gases Disinfectants 	
5.	Hazards	 Drugs Electricity and Equipments Standards Cautaries Unipolar Bipolar Fires and Explosions Infections Blood Products Surgical Incidents Needles Blades Laser Prevention and Management 	



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Lectures. Group discussion. Videos. Live patterns & samples. Practical applications. Field visits (industries).

Text Books & References:

- 1. Clinical Anesthesiology, 4th edition.
- 2. A Practice of Anesthesia, Wylie and Churchill-Davidson's, 7th edition



Specialization	Anesthesia
Course Number	020801151
Course Title	Pain Management
Credit Hours	(2)
Theoretical Hours	(1)
Practical Hours	(3)



This course provides the anesthesia assistant technician student with basic knowledge regarding causes of acute pain and chronic pain and the ways to treat them it also mentions the postoperative pain causes and management. It also emphasizes the labor pain and the way to deal with it.

Course Objectives:

At the end of this course the students should be able to:

- **1-** Know the causes of acute pain and chronic pain
- **2-** Know the ways to treat pain and how to deal with it



Time Needed	Unit Name	Unit Content	Unit Number
1	Introduction	 Receptors, Nerve Fibers, Neurotransmitters and Modulation Pathways Theories of Pain Perception Pain Terminology 	
2	Methods of Treatment	 Main Groups of drugs Opioid. NSAID's Non-analgesic drugs Non-pharmacological methods. 	
3	Acute Pain	 Definition and Causes. Body Response Management Chronic Pain Definition and Classification. Body Response Management 	-
4	Postoperative Pain	 Variation of Analgesic Requirements. Management. Labor Pain Stages of Labour Management. Epidural Analgesia 	-
5	Pain Clinic	 Pain Assessment. Conditions Referred to pain clinic Management Neural Blocks 	

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Laboratory

Text Books & References:

- 1. Acute Pain, Graham Smith, & Benjamin Cavino
- 2. The control of Chronic Pain, Sampson Lipton
- 3. Clinical Anesthesiology, 4th edition.
- 4. A Practice of Anesthesia, Wylie and Churchill-Davidson's, 7th edition





Specialization	Anesthesia
Course Number	020800151
Course Title	Surgical Principles
Credit Hours	(2)
Theoretical Hours	(1)
Practical Hours	(3)

This course provides the anesthesia assistant technician student with basic knowledge regarding the surgical patient. It sheds light on surgical conditions encountered in floor and OR, with special emphasis on infection control in OR. Multi trauma patients are mentioned with the ways to handle them effectively

Course Objectives:

At the end of this course the students should be able to:

- 1-Know Surgical Principles, Surgical Instruments and Operating Tables
- 2-Know Emergency and Elective Surgery
- 3-Multiple Trauma Patients and how Assessment t is done

Unit Number	Unit Name	Unit Content	Time Needed	
.1	Introduction	6. Surgical Principles		
		7. Gowns		
		8. Sterilization		
		9. Surgical steps		
		10. Surgical Instruments:-		
		11. Forceps		
		12. Scissors		
		13. Sutures		
		14. Operating Tables:-		
		Movements.		
		Illumination		
.2	Surgical diseases	☐ Infections.		
		☐ Abscesses		
		☐ Wounds and Ulcers.		
		□ Burns.		
		☐ Congenital Anomalies		
.3	Tumor	☐ Brain		
		☐ Lungs.		
		☐ Gynecologic		
		☐ Urologic.		
		☐ Breast		
		□ Prostate		
		☐ Orthopedic		
.4	Emergency and Elective	☐ Classification		
	Surgery	☐ Patient management		
		☐ Surgical Operations:-		
		- Fractures		
		- Chest		
		- Obstetric		
		 Head and Neck 		
		– Abdomen		
		Genito-urinary		

.5	Multiple Trauma Patients	Introduction	
	-	Assessment	
		Management	

Text Books & References:

- 1. Basic Clinical Surgery for Nurses& Medical Students, John Farland & others.
- 2. The Principles & Practice of Surgery for Nurses & Allied Professions, Ellison Nash

Specialization	Anesthesia
Course Number	020801291
Course Title	Field Training
Credit Hours	(3)
Theoretical Hours	(0)
Practical Hours	(8 weeks)

This course provides the Anesthesia and Recovery students with basic training regarding occupational ethics, operation rooms annexes, importance of sterilization, how to deal with special instruments, and patient reception and supervision before Anesthesia. Moreover, it provides the students with the knowledge regarding medical history & patient preparation and the way to deal with him on operation table. The course will concentrate on the student practical training, especially on giving drugs, clinical observation, instruments control, filling anesthesia forms and the surgeries name in common and their emergency diagnosis. and training students on the supervising of the Trachea and tabulation, to be able later on to manage doing veno – Catheterization. It also concentrates on the training students on how patient recovery is done, mostly on the ideal supervision after surgery, and how to transfer patient to I.C.U. Moreover this course will provide the student with the knowledge on checking the readiness of the instruments of anesthesia and the control of these instruments while working on patient.

Course Objectives:

At the end of this course the students should:

- 1- Know occupational ethics and how to use them in practice.
- 2- Know methods of patient preparation and dealing with him on operation able.
- **3-** Be able to give drugs through I.V and inhalation.
- **4-** Be able to fill anesthesia forms

	Detailed Course Description:		
Time Needed	Unit Name	Unit Content	Unit Number
1.		 Occupational Ethics. To know operation rooms & Annexes, and to know the importance of sterilization and cleanliness. Dealing with Anesthesia Instruments. To know operation rooms. To know basic knowledge regarding Anesthesia instruments and medical papers. To know occupational hierarchy of operations staffs and how to deal with staffs. 	
2.		 Patient reception and observation before Anesthesia Patient reception. Patient reception. To know basic knowledge regarding medical observation Patient medical history. Application of Anesthesia instruments. Patient preparation Dealing with Patient on operation table, and knowing the positions on operation table. Medical observation To assist in patient preparation and dealing with him perfectly from practical points of view. 	

3.	 Giving drugs. Clinical observation and instruments control. Filling Anesthesia forms. Acquaintance with surgeries names and their common and emergency diagnosis. Training on how to manage giving drugs as inhalation and through I.V. Training on how to manage instrumental and clinical monitoring when giving drugs. To be able to manage Anesthesia forms.
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Time Needed	Unit Name	Unit Content	Unit Number
4.		 Supervise trachea training process. Apply tracheal tabulation. Apply Veno – catheterization process. Patient recovery methods Patients supervise after surgery. Patient Transfer to I.C.U. -Perfectly do Veno –catheterization. -Perfectly do tracheal intubations. -Perfectly do recovery processes after all surgery types and emergency patients. -Closed patient observation after surgeries, specially the major ones. -Patient medical care during transferring him to I.C.U. -Save patient transfer to R.R or I.C.U. 	
5.		 Check anesthesia instrument before starting anesthesia. Patient monitoring after instruments installation. How to prepare and use anesthesia instruments and circuits. Monitoring manually and automatically. Blood pressure. -E.C.G. 	

6.		 Training in recovery room and I.C.U: -Recovery room skills. -I.C.U.skills 	
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- **Teaching Methodology:**1. Practical training inside operation room.
 - 2. Group Discussion.
 - 3. Reports.