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	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 	

Detailed Course Description:

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

Text Books & References: References:

- 1. Clinical Anesthesiology, 4th edition.
- 2. Day case anesthesia and sedation, Whiteman, Blackwell, 1994

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3. A Practice of Anesthesia, Wylie and Churchill-Davidson's, 7th edition

Para-Medical Program

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

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: \square

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.



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 	
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 ECG Machine Machine Leads 	

Detailed Course Description:

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5.	Suction Machines	 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. Suction Machines Types Uses Suction Tubes Regional Anesthesia Instruments Spinal Epidural Intravenous(Bier's) Peripheral Nerves Nerve Blocks
6.	Maintenance	 As Muscle Relaxant Action Monitoring Maintenance:- Daily Weekly Monthly Rules of How to Handle Various Instruments
6.	Maintenance	 Maintenance:- Daily Weekly Monthly Rules of How to Handle Various

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



Para-Medical Program

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



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.	Temperature & Humidity	 Safety Standards Regulatory Mechanisms Importance Measuring Instruments Diathermy Unipolar Bipolar 	
5.	Hazards	 Bipola Safety Standards in Operating Rooms Burns, Electrical Shock & Ventricular Fibrillation Fires & Explosions Gas Leak in OR. 	

Detailed Course Description:

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

Text Books & References:

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



Para-Medical Program

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 	

Detailed Course Description:



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



Para-Medical Program

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



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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		

Detailed Course Description:



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✤ Lectures

Text Books & References:

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



Para-Medical Program

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



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.
Induction	 Positions and Monitors Drugs Intravenous Inhalational Rapid sequence induction Complications encountered
Endotracheal Intubation	 Instruments Indications Contraindications Procedures of different techniques Oral intubation. nasal intubation

- Heller

Detailed Course Description:

4.	Maintenance of Anaesthesia	 Fiberoptic intubation. Retrograde intubations. Tracheostomy. Others. Difficult intubation and management Complications encountered Monitoring 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.



 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)



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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 Age Related	 Gastrointestinal Tract and Laparoscopic Anesthesia Obstetric, Gynaecologic and Urologic Anesthesia. Orthopaedic Anesthesia Oncologic Anesthesia Pediatric Anesthesia 	
5.	Other Topics	 Geriatric Anesthesia Alcoholism Obesity Burns Hypotensive Anesthesia 	

Detailed Course Description:

↔ 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



Para-Medical Program	

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	
3.	Mechanical Ventilators	□ Classification.	
		\Box Modes of Ventilation.	
		□ Attachment and Weaning	
		\Box Drugs used in the ICU.	
4.	Care of patients in the	□ Respiratory and Ventilator care.	
	ICU	\Box Nursing care.	
		□ Feeding,Nutrition and TPN.	
		□ Physiotherapy	
5.	Special Issues	□ Poisoning	
		□ Brain Death	
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Detailed Course Description:

Text Books & References:

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



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



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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 	

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



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Teaching Methodology:

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

Text Books & References:

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



Para-Medical Program

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



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 Classification Aesthetic management of different techniques. 	
3.	Regional Anesthesia	Spinal AnesthesiaEpidural AnesthesiaCaudal Anesthesia	
4.	Plexuses Blocks	Upper limb BlocksLower limb Blocks	
5.	Peripheral Nerves Blocks	 Intravenous(Bier's) Block Upper limb nerves' Blocks Lower limb nerves' Blocks 	
		Intercostal nerves' BlocksPenile BlockVasoconstrictors	

Teaching Methodology:

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

Text Books & References:

Text Books:

References:

- 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.



Para-Medical Program		
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 	

		 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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Teaching Methodology:

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

Text Books & References:

References:

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



Para-Medical Program

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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 	

- 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





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Para-Medical Program

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	
		\Box Wounds and Ulcers.	
		\Box Burns.	
		□ Congenital Anomalies	
.3	Tumor	□ Brain	
		Lungs.	
		□ Gynecologic	
		□ Urologic.	
		□ Breast	
		\Box Prostate	
.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 	

Teaching Methodology:

Text Books & References:

References:

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

Para-Medical Program		
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.

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. 	
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.

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