

## برنامج

# المهن الطبية المساعدة

<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806111
<b>Course Title</b>	Preparatory to Paramedic
<b>Credit Hours</b>	(2)
<b>Theoretical Hours</b>	(2)
<b>Practical Hours</b>	(0)

## **Brief Course Description:**

- ❖ This course will provide the student with conceptual knowledge of the Medical Responsibility to be assumed upon Program completion, Credentialing and Position Placement under Medical Direction. Medico-legal implications will be presented. The essential component of the Emergency Health Care Team, the benefits to the Jordanian people will be introduced. Illness and injury prevention, medical-legal issues and ethics will also be included.

## **Course Objectives:**

Upon completion of this course the student will be able to:

1. Outline key historical events that influenced the development of emergency medical services (EMS) systems.
2. Identify the key elements necessary for effective EMS systems operations.
3. Outline the five components of the EMS Education Agenda for the Future: A Systems Approach.
4. Describe the benefits of continuing education.
5. Differentiate among training and roles and responsibilities of the four nationally recognized levels of EMS.
6. Licensure/certification: Emergency Medical Responder, Emergency Medical Technician, Advanced Emergency Medical Technician, and Paramedic.
7. Differentiate among professionalism and professional licensure, certification, registration, and credentialing.
8. List characteristics of the professional paramedic.
9. Describe the benefits of each component of off-line (indirect) and online (direct) medical direction.
10. Outline the role and components of an effective continuous quality improvement (CQI) program.
11. Describe actions the paramedic may take to reduce the chance of errors related to patient care.
12. Describe components of wellness and associated benefits.

13. Outline the benefits of specific lifestyle choices that promote wellness, including proper nutrition, weight control, exercise, sleep, and smoking cessation.
14. Outline actions to be taken following a significant exposure to a patient's blood or other body fluids.
15. Describe guidelines for working effectively in a diverse workplace.
16. Distinguish between normal and abnormal anxiety and stress reactions.
17. Define common medical-legal terms that apply to prehospital situations involving patient care.
18. Define ethics and bioethics.
19. Distinguish between professional, legal, and moral accountability.
20. Discuss specific prehospital ethical issues including allocation of resources, decisions surrounding resuscitation, confidentiality, and consent.

### Detailed Course Description:

Unite Number	Unite Name	Unit Content	Time needed
1.	<b>EMS System : Roles , responsibility , and Professionalism</b>	<ul style="list-style-type: none"> <li>• Emergency medical services system development.</li> <li>• EMS education.</li> <li>• Emergency medical services personnel level.</li> <li>• Licensure, certification, and registration.</li> <li>• Improving system quality.</li> <li>• Patient safety.</li> </ul>	
2.	<b>Well-being of the paramedic</b>	<ul style="list-style-type: none"> <li>• Wellness component.</li> <li>• Dealing with death, dying, grief, and loss.</li> <li>• Prevention of disease transmission.</li> </ul>	
3.	<b>Injury prevention and public health</b>	<ul style="list-style-type: none"> <li>• Overview of injury prevention.</li> <li>• Basic principles of public health.</li> <li>• Participation in prevention programs.</li> </ul>	
4.	<b>First Exam</b>		
5.	<b>Documentation</b>	<ul style="list-style-type: none"> <li>• Importance of documentation.</li> <li>• Element of a properly written EMS document.</li> <li>• Special consideration in documentation.</li> </ul>	

6.	<b>EMS communication</b>	<ul style="list-style-type: none"> <li>• Phases of communications during a typical EMS event.</li> <li>• Role of communication in emergency medical services.</li> <li>• Communication systems.</li> <li>• Component and functions of dispatch communications systems.</li> <li>• Procedure for EMS communications.</li> </ul>	
7.	<b>Medical and legal issues</b>	<ul style="list-style-type: none"> <li>• The legal system.</li> <li>• Legal accountability of the paramedics.</li> <li>• Resuscitation issues.</li> </ul>	
8.	<b>Second Exam</b>		
9.	<b>Ethics</b>	<ul style="list-style-type: none"> <li>• Ethics overview.</li> <li>• Approach to ethical problems in an emergency.</li> <li>• Ethics issues in paramedic practice.</li> <li>• Consent.</li> <li>• Other ethical principle for patient care situations.</li> </ul>	
10.	<b>Research principle and evidence – based practice</b>	<ul style="list-style-type: none"> <li>• Basic principles of research.</li> <li>• Evidence –based practice.</li> </ul>	

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Interactive lecture for didactic material.
2. Small group for discussing issues related to defining concepts
3. Brain storming, role-play and simulation for teaching.
4. Seminars and student presentations
5. Video Films, Overhead project.

- 
6. Data show
  7. Handouts
  8. Scenarios

## **Text Books & References:**

### **Textbook:**

1. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
2. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P.  
Essentials of Paramedic Care Update (2016) 2nd Edition
3. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.
4. Becknell, John M. (1995). Medic Life – Creating Success in EMS JEMS Communications Mosby, Inc. Missouri, USA.

## برنامج

# المهن الطبية المساعدة

<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806121
<b>Course Title</b>	Pharmacology for paramedic (theory)
<b>Credit Hours</b>	(3)
<b>Theoretical Hours</b>	(3)
<b>Practical Hours</b>	(0)

## Brief Course Description:

- ❖ This course will present the various agents used in the treatment of diseases, characteristics of drugs, types of drugs names, the paramedic responsibilities that relate to drugs administration, allergic reactions to drugs, in addition to the study the category of drugs according to its effect on body systems.

## Course Objectives:

Upon completion of this course the student will be able to:

1. Describe characteristics of drugs.
2. Identify the four different types of drug names.
3. Outline drug standards and legislation and enforcement agencies pertinent to the Paramedic.
4. Describe the paramedic's responsibilities that relate to drug administration.
5. Distinguish among drug forms.
6. Differentiate between the four types of allergic reactions to drugs.
7. Outline autonomic nervous system functions that may be altered with the use of drug therapy
8. Discuss factors that influence drug absorption, distribution, and elimination.
9. Describe how drugs react with receptors to produce desired effects.
10. Outline variables that can influence drug interactions.
11. Identify special considerations for administering pharmacological agents to pregnant patients, pediatric patients, and older patients.
12. Outline drug actions and considerations for care of the patient who is given drugs that affect the nervous, cardiovascular, respiratory, endocrine, and gastrointestinal systems.
13. Explain the meaning of drug terms necessary to safely interpret information in drug reference sources.
14. Describe the drugs that affect nervous system, cardiovascular system, blood, respiratory system, gastrointestinal system, eye and ear, and endocrine system.
15. Describe the drugs that affect reproductive system, neoplastic system, immunologic system and drugs that used in infectious disease an inflammation.

**Detailed Course Description:**

Unite Number	Unite Name	Unit Content	Time needed
1.	<b>Drug Information</b>	<ul style="list-style-type: none"> <li>• Historical Trends in Pharmacology</li> <li>• Drug Names</li> <li>• Sources of drug information</li> <li>• Drug Standards and Legislation</li> <li>• Drug regulatory agencies</li> </ul>	
2.	<b>Mechanisms of Drug action</b>	<ul style="list-style-type: none"> <li>• General Properties of Drugs <ul style="list-style-type: none"> <li>- Overview</li> <li>- Pharmaceutical Phase</li> <li>- Pharmacokinetic Phase</li> <li>- Pharmaco-dynamic Phase</li> </ul> </li> <li>• Drug Interactions <ul style="list-style-type: none"> <li>- Drug forms, preparation, and storage.</li> <li>- Drug Profiles and Special Considerations in drug therapy.</li> </ul> </li> </ul>	
3.	<b>First Exam</b>		
4.	<b>Drugs That Affect the Nervous System</b>	<ul style="list-style-type: none"> <li>• Review of Anatomy and Physiology <ul style="list-style-type: none"> <li>- Nervous System</li> <li>- Narcotic Analgesics and Antagonists</li> <li>- Non-narcotic Analgesics</li> <li>- Anesthetics</li> <li>- Anti-anxiety and Sedative-Hypnotic Agents and Alcohol</li> <li>- Anticonvulsants</li> <li>- Central Nervous System Stimulants</li> <li>- Psychotherapeutic Drugs</li> <li>- Drugs for Specific CNS-Peripheral Dysfunction</li> <li>- Drugs with Central Anticholinergic Activity</li> <li>- Drugs Affecting the Autonomic Nervous System</li> <li>- Skeletal Muscle Relaxants</li> </ul> </li> </ul>	
5.	<b>Drugs That Affect the Cardiovascular</b>	<ul style="list-style-type: none"> <li>• Review of Anatomy and Physiology</li> <li>• Cardiac glycoside</li> </ul>	



		<ul style="list-style-type: none"> <li>• Anti-dysrhythmic</li> <li>• Antihypertensive</li> <li>• Angiotensin II receptor antagonist</li> <li>• Ant hemorrhagic agents</li> </ul>	
6.	<b>Drugs That Affect the Blood</b>	<ul style="list-style-type: none"> <li>• Anticoagulants.</li> <li>• Anti-hemophilic agents</li> <li>• Hemostatic agents</li> <li>• Blood and blood components</li> <li>• Anti-hyperlipidemia drugs.</li> </ul>	
7.	<b>Drugs That Affect the Respiratory</b>	<ul style="list-style-type: none"> <li>• Review of Anatomy and Physiology</li> <li>• Bronchodilators</li> <li>• Other respiratory drugs</li> <li>• Mucokinetic drugs</li> <li>• Oxygen and miscellaneous respiratory agents.</li> </ul>	
8.	<b>Second Exam</b>		
9.	<b>Drugs That Affect the Gastrointestinal System</b>	<ul style="list-style-type: none"> <li>• Review of Anatomy and Physiology</li> <li>• Drugs that affect the stomach</li> <li>• Drugs that affect the lower GI tract.</li> </ul>	
10.	<b>Drugs That Affect the Eye and Ear</b>	<ul style="list-style-type: none"> <li>• Review of Anatomy and Physiology.</li> <li>• Drugs that affect the eye.</li> <li>• Drugs that affect ear.</li> </ul>	
11.	<b>Drugs That Affect the Endocrine System</b>	<ul style="list-style-type: none"> <li>• Review of Anatomy and Physiology</li> <li>• Drugs That Affect the pituitary gland</li> <li>• Drugs That Affect the thyroid and parathyroid glands</li> <li>• Drugs That Affect the adrenal cortex</li> <li>• Drugs That Affect the pancreas</li> <li>• Hormones of the pancreas.</li> </ul>	
12.	<b>Drugs That Affect the Reproductive System</b>	<ul style="list-style-type: none"> <li>• Drugs That Affect the female Reproductive System</li> <li>• Drugs That Affect the sexual behavior</li> </ul>	
13.	<b>Drugs Used in Neoplastic Diseases</b>	<ul style="list-style-type: none"> <li>• Antineoplastic Agents</li> </ul>	
14.	<b>Drugs Used in Infectious Disease and Inflammation</b>	<ul style="list-style-type: none"> <li>• Antibiotics</li> <li>• Anti-fungal and Antiviral Drugs</li> <li>• Other Anti-microbial Drugs and Ant</li> </ul>	

		parasitic <ul style="list-style-type: none"> <li>• Anti-inflammatory and Non-steroidal</li> <li>• Anti-inflammatory Drugs</li> </ul>	
15.	<b>Drugs That Affect the Immunologic System</b>	<ul style="list-style-type: none"> <li>• Review of Anatomy and Physiology</li> <li>• Drugs used to treat the immune system.</li> </ul>	

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Interactive lecture for didactic material.
2. Small group for discussing issues related to defining concepts
3. Brain, storming, role-play and simulation for teaching.
4. Seminars and student presentations
5. Video Films, Overhead project.
6. Data show
7. Handouts
8. Sceneries

### Text Books & References:

#### Textbook:

1. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
2. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.
3. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P. Essentials of Paramedic Care Update (2016) 2nd Edition
4. Bryan E. Bledsoe & Dwayne E. Clayden. Prehospital Emergency Pharmacology (7th Edition), 2011.

<h1>برنامج</h1> <h2>المهنة الطبية المساعدة</h2>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806122
<b>Course Title</b>	Clinical pharmacology for paramedic
<b>Credit Hours</b>	(1)
<b>Theoretical Hours</b>	(0)
<b>Practical Hours</b>	(3)

### **Brief Course Description:**

- ❖ Didactic theory in fluid replacement will be presented to be followed by artificial simulation; IV placement in group interaction .the ability to understand venous access and to prepare and administer prescribed medications is an important part of professional paramedic practice.

### **Course Objectives:**

Upon completion of this course the student will be able to:

1. Review the specific anatomy and physiology pertinent to medication administration.
2. Review mathematical principles and equivalents ,and discuss applying basic principles of mathematics to the calculation problems associated with medication dosage
3. Describe how to perform mathematical conversion from the household system the metric system
4. Compute the correct rate for an infusion of drugs or intravenous fluid
5. List measures for ensuring the safe administration of medications
6. List measures for preserving asepsis during parental administration of drugs
7. Explain drugs administration techniques for the enteral and parenteral routes.
8. Describe the steps for safely initiating an intravenous infusion.
9. Identify complications and adverse effects associated with intravenous access.

**Detailed Course Description:**

Unit Number	Unit Name	Unit Content	Time needed
1.	<b>Drugs dosage measuring system</b>	<ul style="list-style-type: none"> <li>• Metric system</li> <li>• Apothecary system</li> <li>• Household system</li> <li>• Deals with mass, volume units</li> <li>• Physicians use any system ordering drugs.</li> <li>•</li> <li>•</li> </ul>	
2.	<b>Drugs calculation</b>	<ul style="list-style-type: none"> <li>• Calculation methods</li> <li>• Units of measures</li> <li>• Conversion</li> <li>• Infant, children calculation</li> </ul>	
3.	<b>Drugs administration</b>	<ul style="list-style-type: none"> <li>• Safety considerations procedures</li> <li>• Medication errors</li> </ul>	
4.	<b>Medical asepsis</b>	<ul style="list-style-type: none"> <li>• Removal ,destruction of disease causing organism, infected materials, antiseptics,</li> <li>• Disinfectants</li> <li>• Universal precautions.</li> </ul>	
5.	<b>First exam</b>		
6.	<b>Enteral administration</b>	<ul style="list-style-type: none"> <li>• Oral route</li> <li>• Gastric tube administration</li> <li>• Rectal administration</li> </ul>	
7.	<b>Parenteral administration</b>	<ul style="list-style-type: none"> <li>• Equipment for injection used syringes needles</li> <li>• Help prevent blood exposure, needle stick injury</li> <li>• Containers used injection preparation</li> <li>• Mixing medications</li> <li>• Prefilled syringes</li> <li>• Preparing injection site</li> <li>• Intradermal injection</li> <li>• SC injections</li> <li>• Intramuscular injection</li> </ul>	
8.	<b>Intravenous therapy</b>	<ul style="list-style-type: none"> <li>• Cannulation, gain access to body circulation</li> <li>• Route puts drug directly into blood stream</li> </ul>	

		<ul style="list-style-type: none"> <li>• Bypasses all absorption barriers</li> </ul>	
9.	<b>Intravenous fluid administration</b>	<ul style="list-style-type: none"> <li>• Peripheral vein, route of choice, prehospital setting</li> <li>• Common prehospital setting iv fluid</li> </ul>	
10.	<b>Intravenous catheter type</b>	<ul style="list-style-type: none"> <li>• hollow needle</li> <li>• indwelling plastic catheter</li> </ul>	
11.	<b>Peripheral intravenous insertion</b>	<ul style="list-style-type: none"> <li>• common area</li> <li>• other sites</li> </ul>	
12.	<b>EMS for children</b>	<ul style="list-style-type: none"> <li>• Overview</li> </ul>	
13.	<b>Peripheral intravenous insertion</b>	<ul style="list-style-type: none"> <li>• clinical status factors for use steps</li> </ul>	
14.	<b>Complication of intravenous technique</b>	<ul style="list-style-type: none"> <li>• possible complications</li> <li>• local intravenous complications</li> <li>• systemic complication</li> <li>• infiltration</li> <li>• air embolism</li> </ul>	
15.	<b>Intravenous and intraosseous medications</b>	<ul style="list-style-type: none"> <li>• intravenous medications</li> <li>• in line device</li> <li>• drugs pump</li> <li>• intraosseous medications</li> <li>• site choices</li> <li>• intraosseous devices</li> <li>• insertion technique</li> <li>• contraindication</li> <li>• complication</li> </ul>	
16.	<b>Percutaneous medication administration</b>	<ul style="list-style-type: none"> <li>• topical</li> <li>• sublingual</li> <li>• buccal</li> <li>• inhaled</li> <li>• endotracheal</li> <li>• nasal</li> <li>• eye, nose, ear drugs</li> </ul>	
17.	<b>Pediatric patient</b>	<ul style="list-style-type: none"> <li>• administration guidelines</li> </ul>	
18.	<b>Obtaining blood sample</b>	<ul style="list-style-type: none"> <li>• using vacutainer</li> <li>• disposable contaminated items</li> </ul>	

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Interactive lecture for didactic material.
2. Small group for discussing issues related to defining concepts
3. Brain, storming, role-play and simulation for teaching.
4. Video Films, AV presentation
5. Data show
6. Handouts
7. Sceneries

### Text Books & References:

#### Textbook:

1. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
2. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition
3. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P. Essentials of Paramedic Care Update (2016) 2nd Edition
4. Bryan E. Bledsoe & Dwayne E. Clayden. Prehospital Emergency Pharmacology (7th Edition), 2011
5. Alan A. Mikolaj B.S. Licensed Paramedic. (2003). Drug Dosage Calculations for the Emergency Care Provider, 2nd Edition
6. Bertram Katzung & Anthony Trevor (2014). Basic and Clinical Pharmacology 13th Edition

<h1>برنامج</h1> <h2>المهن الطبية المساعدة</h2>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806131
<b>Course Title</b>	Airway Management
<b>Credit Hours</b>	(2)
<b>Theoretical Hours</b>	(1)
<b>Practical Hours</b>	(3)



## Brief Course Description:

- ❖ Didactic theory in basic and advanced airway management to give students the chance to learn, practice and demonstrate their ability in applying many airway skills used in resuscitation. Students increase their awareness of various airway products and skills required.

## Course Objectives:

Upon completion of this course the student will be able to:

1. Describe the anatomy of the airway and respiratory structures.
2. Distinguish between respiration, pulmonary ventilation, and external and internal respiration.
3. Explain the mechanics of ventilation and respiration.
4. Explain the relationship between partial pressures of gases in the blood and lungs to atmospheric gas pressures.
5. Describe pulmonary circulation.
6. Explain the process of exchange and transport of gases in the body.
7. Describe voluntary, nervous, and chemical regulation of respiration.
8. Discuss the assessment and management of airway obstruction.
9. Describe risk factors and preventive measures for pulmonary aspiration.
10. Outline assessment of airway and breathing.
11. Describe the indications, contraindications, and techniques to deliver supplemental oxygen.
12. Discuss the methods of patient ventilation based on the indications, contraindications, potential complications, and use of each method.
13. Describe the use of manual airway maneuvers and mechanical airway adjuncts based on knowledge of their indications, contraindications, potential complications, and techniques for each.
14. Describe effective techniques to verify proper placement of endotracheal and peritracheal airway devices.
15. Explain variations in assessment and management of airway and ventilation problems in pediatric patients.
16. Given a patient scenario, identify possible alterations in oxygenation and ventilation and appropriate interventions to treat those alterations.

**Detailed Course Description:**

Unit Number	Unit Name	Unit Content	Time needed
1.	<b>Airway Anatomy and Mechanics of Respiration</b>	<ul style="list-style-type: none"> <li>Review anatomy of the airway</li> <li>Airway support structures</li> <li>Mechanics of Respiration</li> <li>Work of breathing</li> <li>Measurement of Gases</li> </ul>	
2.	<b>Pulmonary Circulation, Gas Transport, and Chemical Regulation</b>	<ul style="list-style-type: none"> <li>Pulmonary Circulation</li> <li>Exchange and Transport of Body Gases</li> <li>Respiratory Regulation</li> <li>Older Patient Considerations</li> </ul>	
3.	<b>Obstruction, Aspiration, Assessment, and Supplemental Oxygen</b>	<ul style="list-style-type: none"> <li>Upper Airway Obstruction</li> <li>Supplemental Oxygen</li> <li>Oxygen Delivery Devices</li> </ul>	
4.	<b>First Exam</b>		
5.	<b>Augmenting Patient Ventilations</b>	<ul style="list-style-type: none"> <li>Augmenting Patient Ventilations</li> <li>Rescue Breathing and Mechanical Ventilation</li> <li>Automatic Transport Ventilators</li> </ul>	
6.	<b>Airway Management and Confirmation Methods</b>	<ul style="list-style-type: none"> <li>Manual Techniques</li> <li>Suctioning procedures and devices</li> <li>Nasal and gastric tubes</li> <li>Airway Management Mechanical Adjuncts</li> <li>Advanced Airway Procedures</li> <li>Primary and Secondary Confirmation Methods</li> </ul>	
7.	<b>Second Exam</b>		
8.	<b>Special Considerations, Pediatric Patients, and Pharmacological Adjuncts</b>	<ul style="list-style-type: none"> <li>Pediatric Intubations</li> <li>Adjuncts to Aid Confirmation of ET Placement</li> <li>Types of Advanced Airway tubes</li> <li>Pharmacological Adjuncts to Airway Management</li> </ul>	



		<ul style="list-style-type: none"> <li>• Rapid Sequence Intubation</li> <li>• Trans laryngeal Cannula Ventilation</li> <li>• Cricothyrotomy</li> </ul>	
--	--	--	--

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Interactive lecture for didactic material
2. Small group for discussing
3. Role-playing
4. Seminars and student presentations
5. Video Films, AV presentation

### Text Books & References:

#### Textbook:

1. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
2. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P. Essentials of Paramedic Care Update (2016) 2nd Edition
3. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.
4. Andrew Burtenshaw & BristolJerry Nolan. (2015). Emergency Airway Management, 2nd Edition





<b>برنامج المهن الطبية المساعدة</b>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806141
<b>Course Title</b>	Patient Assessment
<b>Credit Hours</b>	(2)
<b>Theoretical Hours</b>	(1)
<b>Practical Hours</b>	(3)

### Brief Course Description:

- ❖ Didactic theory in physical examination contains foundational content to guide students' approaches to history taking, interviewing, and other core assessment skills, as well as fully illustrated, step-by-step techniques that outline correct performance of physical examination. It's designed for students of health professions who are learning to talk with patients, to perform their physical examinations and assessing patient concerns.

### Course Objectives:

Upon completion of this course the student will be able to:

1. Demonstrate communications skills in appropriate manner with patient.
2. Demonstrate the technique and skills of good interviewing and history taking.
3. Explore the clinical physical examination process and how document your evaluation, diagnosis, and plan for patient care.
4. Detail anatomy and physiology, health history, guideline for health promotion.
5. Written and document record relevant to specific body system and region.
6. Extend the adapt element of adult history and physical examination to special populations, newborn, infant, children, pregnant.

### Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time needed
1.	Competencies	<ul style="list-style-type: none"> <li>• The history of the competency-based education movement in medical education</li> <li>• Competency statements from other countries</li> <li>• Good medical practice</li> <li>• Competencies</li> <li>• Summary</li> <li>• References</li> </ul>	
2.	Interpersonal and communication skills	<ul style="list-style-type: none"> <li>• The patient interview :more than asking questions</li> <li>• Verbal skills</li> <li>• Listening skills</li> </ul>	



		<ul style="list-style-type: none"> <li>• Respect</li> <li>• Empathy</li> <li>• Professionalism</li> <li>• Educational and instructional skills</li> <li>• References</li> </ul>	
3.	<b>History taking</b>	<ul style="list-style-type: none"> <li>• Chart review</li> <li>• The pre-encounter screen</li> <li>• Entering the room and introduction</li> <li>• Opening question</li> <li>• Chief complaint</li> <li>• Duration</li> <li>• History of present illness(HPI)</li> <li>• Components of present illness :CODIERS SMASH FM</li> <li>• References</li> </ul>	
4.	<b>The history flows</b>	<ul style="list-style-type: none"> <li>• Flow orientation</li> <li>• Flow summary</li> <li>• Timing</li> <li>• Documentation: the SOAP note</li> </ul>	
5.	<b>Introduction to physical examination</b>	<ul style="list-style-type: none"> <li>• Head -to-toe approach</li> <li>• The target method :absolute ,adjacent ,and associated areas of examination</li> <li>• Beginning the examination</li> <li>• Techniques of examination</li> <li>• Complacency in physical examination</li> </ul>	
6.	<b>General assessment and vital signs</b>	<ul style="list-style-type: none"> <li>• General assessment</li> <li>• Height and weight</li> <li>• Vital signs</li> <li>• References</li> </ul>	
7.	<b>First exam</b>		
8.	<b>Integumentary system</b>	<ul style="list-style-type: none"> <li>• Hair</li> <li>• Skin</li> <li>• Nails</li> <li>• Skin cancer</li> <li>• References</li> </ul>	
9.	<b>Head, Eyes, Ears, Nose and throat examination</b>	<ul style="list-style-type: none"> <li>• Head</li> <li>• Face</li> <li>• Sinuses</li> <li>• Eyes</li> </ul>	





		<ul style="list-style-type: none"> <li>• Nose</li> <li>• Throat</li> <li>• Ears</li> <li>• References</li> </ul>	
10.	<b>Neck and Lymphatic</b>	<ul style="list-style-type: none"> <li>• Neck</li> <li>• Lymphatic</li> <li>• Special testing</li> </ul>	
11.	<b>Cardiovascular</b>	<ul style="list-style-type: none"> <li>• Eyes</li> <li>• Neck</li> <li>• Chest</li> <li>• Abdomen</li> <li>• Extremities</li> <li>• References</li> </ul>	
12.	<b>Respiratory examination</b>	<ul style="list-style-type: none"> <li>• Inspection</li> <li>• Auscultation</li> <li>• Palpation</li> <li>• Percussion</li> <li>• References</li> </ul>	
13.	<b>Abdominal examination</b>	<ul style="list-style-type: none"> <li>• Inspection</li> <li>• Auscultation</li> <li>• Palpation</li> <li>• Percussion</li> <li>• Clinical scenarios</li> </ul>	
14.	<b>Musculoskeletal examination</b>	<ul style="list-style-type: none"> <li>• The seated position</li> <li>• Standing position</li> <li>• Clinical scenario</li> </ul>	
15.	<b>Second Exam</b>		
16.	<b>Neurologic examination</b>	<ul style="list-style-type: none"> <li>• Mental status</li> <li>• General observation</li> <li>• Cranial nerve examination</li> <li>• Motor examination</li> <li>• Muscle stretch examination</li> <li>• Sensory examination</li> <li>• Cerebellar function</li> </ul>	
17.	<b>Sensitive examination</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• sexual maturity rating</li> <li>• Breast anatomy</li> <li>• Breast examination</li> </ul>	



		<ul style="list-style-type: none"> <li>Female genitalia anatomy</li> <li>Pelvic examination</li> <li>Male anatomy</li> <li>Male genitalia and rectal exam</li> <li>References</li> </ul>	
18.	<b>Comprehensive flows</b>	<ul style="list-style-type: none"> <li>Review of the patient data sheet</li> <li>The encounter</li> <li>Differential diagnosis</li> <li>The treatment plan : MOTHRR</li> <li>Ending the encounter</li> <li>Documentation of the encounter</li> <li>Comprehensive floe summary</li> </ul>	
19.	<b>The pregnant patient</b>	<ul style="list-style-type: none"> <li>First prenatal visit</li> <li>Exam based on weeks of gestation</li> </ul>	
20.	<b>Pediatric patient examination</b>	<ul style="list-style-type: none"> <li>General principle of physical examination</li> <li>The newborn</li> <li>Infant well visit</li> <li>Early childhood(1to 4 years)</li> <li>Middle childhood through adolescences</li> <li>References</li> </ul>	
21.	<b>Patient encounter documentation</b>	<ul style="list-style-type: none"> <li>SOAP note documentation</li> <li>Complete history and physical examination</li> </ul>	

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Overhead projector
2. Data show
3. Handouts
4. Scenarios

---

## **Text Books & References:**

### **Textbook:**

1. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
2. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P.  
Essentials of Paramedic Care Update (2016) 2nd Edition
3. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.
4. Mark Kauffman, (2013) History and Physical Examination: A Common Sense Approach.

<b>برنامج</b> <b>المهن الطبية المساعدة</b>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806241
<b>Course Title</b>	Emergencies Paramedicine 1
<b>Credit Hours</b>	(2)
<b>Theoretical Hours</b>	(2)
<b>Practical Hours</b>	(0)

## Brief Course Description:

- ❖ This course will affirm the students' ability to demonstrate and perform Primary and Secondary Patient Assessments, and establish the detailed physical examination process for medical emergencies that commonly occurs in pre & in hospital setting. Review anatomy of the structures and discuss specific findings, symptoms, and management consideration for common diseases.

## Course Objectives:

Upon completion of this course the student will be able to:

1. Label diagram of the eye, ear, nose and oropharynx.
2. Describe the pathophysiology, signs and symptoms, and specific management techniques for disorders of the eye, ear, nose and oropharynx.
3. Distinguish the pathophysiology of respiratory emergencies related to ventilation, diffusion, and perfusion.
4. Outline the assessment process for the patient who has a respiratory emergency.
5. Describe the causes, complications, signs and symptoms, and pre hospital management of patients diagnosed with obstructive airway disease, pneumonia, adult respiratory distress syndrome, pulmonary thromboembolism, upper respiratory infection, spontaneous pneumothorax, hyperventilation syndrome, and lung cancer.
6. Describe anatomy and physiology of nervous system.
7. Outline pathophysiological changes in nervous system that may alter the cerebral perfusion pressure.
8. Describe assessment of patient with nervous system disorder.
9. Describe the pathophysiology, signs and symptoms, and specific management techniques for each of the following neurologic disorders: coma, stroke and intracranial hemorrhage, seizure disorders, headaches, brain neoplasm and brain abscess, and degenerative neurological diseases.

10. Describe how hormones secreted from the endocrine glands help body maintain homeostasis.
11. Describe anatomy and physiology of pancreas and how its hormones maintain normal glucose metabolism.
12. Discuss pathophysiology as a basis for key signs and symptoms, patient assessment, and patient management for diabetes and diabetic emergencies of hypoglycemia, diabetic ketoacidosis, and hyperosmolar hyperglycemic nonketotic syndrome.
13. Discuss pathophysiology as a basis for key signs and symptoms, patient assessment, and patient management for disorders of the thyroid gland
14. Discuss pathophysiology as a basis for key signs and symptoms, patient assessment, and management of emergencies related to Cushing syndrome and Addison disease.
15. Outline the structure of immune system.
16. Describe the antigen-antibody response, pathophysiology of immune system diseases and complication of organ transplantation, signs & symptoms and management of allergic reactions.
17. Identify general public health principles related to infectious disease.
18. Describe the chain of elements necessary for an infectious disease to occur.
19. Explain how internal and external barriers affect susceptibility to infection.
20. Differentiate the four stages of infectious disease: the latent period, the incubation period, the communicability period, and the disease period.
21. Describe the mode of transmission, pathophysiology, pre hospital considerations, and person protective measures for the human immunodeficiency virus (HIV), hepatitis, tuberculosis, meningococcal meningitis rabies or tetanus, sexually transmitted diseases and pneumonia.
22. List the signs, symptoms, and possible secondary complications of influenza, severe acute respiratory syndrome (SARS), mononucleosis, scabies and lice and selected childhood viral diseases.
23. Outline the reporting process for exposure to infectious or communicable diseases.

24. Discuss the paramedic's role in preventing disease transmission.

### Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time needed
1.	Disease of EENT	<ul style="list-style-type: none"> <li>• Diagram of the eye, ear, nose and oropharynx.</li> <li>• Pathophysiology, signs and symptoms, and specific management techniques for disorders of the eye, ear, nose and oropharynx.</li> </ul>	
2.	Respiratory	<ul style="list-style-type: none"> <li>• Overview of the anatomy and physiology of Respiratory system.</li> <li>• Pathophysiology of respiratory emergencies related to ventilation, diffusion, and perfusion.</li> <li>• Assessment process for the patient with respiratory emergency.</li> <li>• Causes, complications, signs and symptoms, and pre hospital management of patients diagnosed with obstructive airway disease, pneumonia, adult respiratory distress syndrome, pulmonary thromboembolism, upper respiratory infection, spontaneous pneumothorax, hyperventilation syndrome, and lung cancer.</li> </ul>	
3.	First Exam		
4.	Neurology	<ul style="list-style-type: none"> <li>• Anatomy and physiology of nervous system.</li> <li>• Pathophysiological changes in nervous system that may alter the cerebral perfusion pressure.</li> <li>• Assessment of patient with nervous system disorder.</li> <li>• Pathophysiology, signs and symptoms, and specific management techniques for each of the following neurologic disorders: coma, stroke and intracranial hemorrhage, seizure disorders, headaches, brain neoplasm and brain abscess, and degenerative neurological diseases.</li> </ul>	

5.	<b>Endocrinology</b>	<ul style="list-style-type: none"> <li>• Hormones secreted from the endocrine glands.</li> <li>• Anatomy and physiology of pancreas.</li> <li>• Pathophysiology as a basis for key signs and symptoms, patient assessment, and patient management for diabetes and diabetic emergencies of hypoglycemia, diabetic ketoacidosis, hyperosmolar and patient management for disorders of the thyroid gland, Cushing syndrome and Addison disease.</li> </ul>	
6.	<b>Second Exam</b>		
7.	<b>Immune System Disorders</b>	<ul style="list-style-type: none"> <li>• Structure of immune system.</li> <li>• The antigen-antibody response, pathophysiology of immune system diseases and complication of organ transplantation, signs &amp; symptoms and management of allergic reactions.</li> </ul>	
8.	<b>Infectious &amp; Communicable Diseases</b>	<ul style="list-style-type: none"> <li>• General public health principles related to infectious disease.</li> <li>• The chain of elements necessary for an infectious disease to occur.</li> <li>• Internal and external barriers affect susceptibility to infection.</li> <li>• The four stages of infectious disease.</li> <li>• the mode of transmission, pathophysiology, pre hospital considerations, and person protective measures for the human immunodeficiency virus (HIV), hepatitis, tuberculosis, meningococcal meningitis rabies or tetanus, sexually transmitted diseases.</li> <li>• Signs, symptoms, and possible secondary complications of influenza, severe acute respiratory syndrome (SARS), mononucleosis, scabies and lice and selected childhood viral diseases.</li> <li>• Exposure to infectious or communicable diseases.</li> <li>• The paramedic's role in preventing disease</li> </ul>	



		transmission.	
--	--	---------------	--

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Interactive lecture for didactic material.
2. Small group for discussing issues related to defining concepts
3. Brain storming, role-play and simulation for teaching.
4. Seminars and student presentations
5. Video Films, Overhead project.
6. Data show
7. Handouts
8. Scenarios

### Text Books & References:

#### Textbook:

1. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry. (2013). Paramedic Care: Principles & Practice, Volume 4: Medicine, 4th Edition
2. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
3. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P. Essentials of Paramedic Care Update (2016) 2nd Edition
4. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.

<h1>برنامج</h1> <h2>المهن الطبية المساعدة</h2>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806242
<b>Course Title</b>	Emergencies Paramedicine 1 /clinical
<b>Credit Hours</b>	(2)
<b>Theoretical Hours</b>	(0)
<b>Practical Hours</b>	(6)

## Brief Course Description:

- ❖ This course will affirm the students' ability to demonstrate and perform Primary and Secondary Patient Assessments, and establish the detailed physical examination process for medical emergencies that commonly occurs in pre & in hospital setting. Discuss specific findings, symptoms, and management consideration for common diseases.

## Course Objectives:

Upon completion of this course the student will be able to:

1. Demonstrate and perform Primary and Secondary Patient Assessments of EENT emergencies in pre & in hospital setting.
2. Demonstrate and perform Primary and Secondary Patient Assessments of respiratory emergencies related to ventilation, diffusion, and perfusion.
3. Management of patients diagnosed with obstructive airway disease, pneumonia, adult respiratory distress syndrome, pulmonary thromboembolism, upper respiratory infection, spontaneous pneumothorax, hyperventilation syndrome, and lung cancer.
4. Demonstrate and perform Primary and Secondary Patient Assessments & Management techniques for each of the following neurologic disorders: coma, stroke and intracranial hemorrhage, seizure disorders, headaches, brain neoplasm and brain abscess, and degenerative neurological diseases.
5. Assessment and patient management for diabetes and diabetic emergencies of hypoglycemia, diabetic ketoacidosis, and hyperosmolar hyperglycemic nonketotic syndrome.
6. Assessment and patient management for disorders of the thyroid gland.
7. Assessment & management of allergic reactions.
8. Assessment & management of infectious disease.

**Detailed Course Description:**

Unit Number	Unit Name	Unit Content	Time needed
1.	Disease of EENT	<ul style="list-style-type: none"> <li>Perform assessment &amp; management techniques for disorders of the eye, ear, nose and oropharynx.</li> </ul>	
2.	Respiratory	<ul style="list-style-type: none"> <li>Assessment process for the patient with respiratory emergency.</li> <li>Pre hospital management of patients diagnosed with obstructive airway disease, pneumonia, adult respiratory distress syndrome, pulmonary thromboembolism, upper respiratory infection, spontaneous pneumothorax, hyperventilation syndrome, and lung cancer.</li> </ul>	
3.	First Exam		
4.	Neurology	<ul style="list-style-type: none"> <li>Assessment of patient with nervous system disorder.</li> <li>Management techniques for each of the following neurologic disorders: coma, stroke and intracranial hemorrhage, seizure disorders, headaches, brain neoplasm and brain abscess, and degenerative neurological diseases.</li> </ul>	
5.	Endocrinology	<ul style="list-style-type: none"> <li>patient assessment and management for diabetes and diabetic emergencies of hypoglycemia, diabetic ketoacidosis, hyperosmolar and patient management for disorders of the thyroid gland, Cushing syndrome and Addison disease.</li> </ul>	
6.	Second Exam		
7.	Immune System Disorders	<ul style="list-style-type: none"> <li>Assessment &amp; management the patient of immune system diseases and management of allergic reactions.</li> </ul>	
8.	Infectious & Communicable Diseases	<ul style="list-style-type: none"> <li>Assessment and management of patients of infectious disease.</li> <li>Protective measures for the human immunodeficiency virus (HIV), hepatitis,</li> </ul>	

		tuberculosis, meningococcal meningitis rabies or tetanus, sexually transmitted diseases.	
--	--	--	--

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Demonstration and re-demonstration (Lab and or / clinical setting hospital).
2. Role-Modeling
3. Simulation.
4. Lab activities
5. Scenarios
6. Models

### Text Books & References:

#### Textbook:

1. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry. (2013). Paramedic Care: Principles & Practice, Volume 4: Medicine, 4th Edition
2. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
3. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P. Essentials of Paramedic Care Update (2016) 2nd Edition
4. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.

<h1>برنامج</h1> <h2>المهن الطبية المساعدة</h2>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806243
<b>Course Title</b>	Emergencies Paramedicine 2
<b>Credit Hours</b>	(3)
<b>Theoretical Hours</b>	(3)
<b>Practical Hours</b>	(0)

### Brief Course Description:

- ❖ This course with various medical emergencies will be presented. Description causes, complications, signs and symptoms, and prehospital management of patients with a diagnosis of gastrointestinal (GI) disorders, signs and symptoms of renal failure, hematologic disorders, emergencies and high-altitude illness, and components of a behavioral emergency. Establish the detailed physical examination process for medical emergencies that commonly occurs in pre & in hospital setting. Review anatomy of the structures and discuss specific findings, symptoms, and management consideration for common diseases.

### Course Objectives:

Upon completion of this course the student will be able to:

1. Label a diagram of the abdominal organs.
2. Describe the function of the abdominal, GI, Genitourinary & Renal organs.
3. Outline prehospital assessment of a patient who is complaining of abdominal pain, GI, Genitourinary & Renal, Hematology, Non Traumatic Musculoskeletal, Toxicology, Behavioral & Psychiatric Disorders and Shock.
4. Describe the pathophysiology, signs and symptoms, and specific management techniques for disorders of the Abdomen, GI, Genitourinary & Renal, Hematology, Non Traumatic Musculoskeletal, Toxicology, Behavioral & Psychiatric Disorders and Shock
5. explore issues related to the compassionate, patient-centered care of special populations including geriatric, abuse and neglect patients, and patients with special challenges, home care and a variety of underserved groups

### Detailed Course Description:

Unite Number	Unite Name	Unit Content	Time needed
--------------	------------	--------------	-------------



1.	<b>Disease of Abdomen &amp; GI</b>	<ul style="list-style-type: none"><li>• Overview of the anatomy and physiology of Abdomen &amp; GI system.</li><li>• Pathophysiology of Abdominal &amp; GI system emergencies.</li><li>• Assessment process for the patient with</li></ul>	
----	------------------------------------	--	--



		<p>Abdominal &amp; GI system emergency.</p> <ul style="list-style-type: none"> <li>• Causes, complications, signs and symptoms, and pre hospital management of patients diagnosed with Abdominal &amp; GI system disease.</li> </ul>	
2.	<b>Genitourinary &amp; Renal</b>	<ul style="list-style-type: none"> <li>• Overview of the anatomy and physiology of Genitourinary &amp; renal system.</li> <li>• Pathophysiology of Genitourinary &amp; renal system emergencies.</li> <li>• Assessment process for the patient with Genitourinary &amp; renal emergency.</li> <li>• Causes, complications, signs and symptoms, and pre hospital management of patients diagnosed with Genitourinary &amp; renal disease.</li> </ul>	
3.	<b>Hematology</b>	<ul style="list-style-type: none"> <li>• Overview of the anatomy and physiology of Blood system.</li> <li>• Pathophysiology of hematologic disorders.</li> <li>• Assessment process for the patient with hematologic emergency.</li> <li>• Causes, complications, signs and symptoms, and pre hospital management of patients diagnosed with hematologic disease.</li> </ul>	
4.	<b>First Exam</b>		
5.	<b>Non Traumatic Musculoskeletal</b>	<ul style="list-style-type: none"> <li>• Overview of the anatomy and physiology of musculoskeletal system.</li> <li>• Pathophysiology of musculoskeletal system disorders.</li> <li>• Assessment process for the patient with non-traumatic musculoskeletal system emergency.</li> <li>• Causes, complications, signs and symptoms, and pre hospital management of patients diagnosed with non-traumatic musculoskeletal system disease.</li> </ul>	
6.	<b>Toxicology</b>	<ul style="list-style-type: none"> <li>• General principles for assessment and management of the patient who has ingested poison, Inhaled toxins, injected toxins and drug abuse.</li> </ul>	
7.	<b>Behavioral &amp;</b>	<ul style="list-style-type: none"> <li>• General principles for assessment and</li> </ul>	

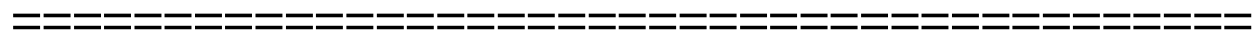


	<b>Psychiatric Disorders</b>	management of the patient who has behavioral and Psychiatric disorders.	
<b>8.</b>	<b>Second Exam</b>		
<b>9.</b>	<b>Shock</b>	<ul style="list-style-type: none"> <li>• Definition, types, pathophysiology, assessment and management of shock.</li> </ul>	
<b>10</b>	<b>Geriatrics</b>	<ul style="list-style-type: none"> <li>• Demographics, Epidemiology, and Societal Issues.</li> <li>• Physiological Changes of Aging.</li> <li>• General Principles in Assessment &amp; Management of the Geriatric Patient.</li> <li>• Toxicology.</li> <li>• Substance Abuse.</li> <li>• Environmental Considerations.</li> <li>• Behavioral and Psychiatric Disorders.</li> <li>• Trauma.</li> <li>• Elder Abuse</li> </ul>	
	<b>Abuse and Neglect</b>	<ul style="list-style-type: none"> <li>• Battering.</li> <li>• Characteristics of Persons in Abusive Relationships.</li> <li>• Identification of Battered Patient.</li> <li>• Scene Safety.</li> <li>• Care of the Victim.</li> <li>• Legal Considerations.</li> <li>• Elder Abuse.</li> <li>• Child Abuse.</li> <li>• Sexual Assault.</li> <li>• Assessment and Patient Care Considerations.</li> </ul>	



	<b>Patients with Special Challenges</b>	<ul style="list-style-type: none"> <li>• Hearing, Visual &amp; Speech Impairments.</li> <li>• Obesity.</li> <li>• Patients with Paraplegia/Quadriplegia.</li> <li>• Mental Challenges.</li> <li>• Arthritis.</li> <li>• Cerebral Palsy.</li> <li>• Cystic Fibrosis.</li> <li>• Multiple Sclerosis.</li> <li>• Muscular Dystrophy.</li> <li>• Poliomyelitis.</li> <li>• Previously Head-Injured Patients.</li> <li>• Spina Bifida.</li> <li>• Myasthenia Gravis.</li> <li>• Culturally Diverse Patients.</li> <li>• Terminally Ill Patients.</li> <li>• Patients with Communicable Diseases.</li> <li>• Financial Challenges.</li> </ul>	
	<b>Acute Interventions for Home Care</b>	<ul style="list-style-type: none"> <li>• Overview of Home Health Care.</li> <li>• Advanced Life Support Response to Home Health Care Patients.</li> <li>• Infection Control.</li> <li>• Types of Home Care Patients.</li> <li>• Assessment &amp; Management of home health care patients.</li> <li>• General Principles in Wound Care Management.</li> <li>• Maternal/Child Conditions.</li> <li>• Hospice/Palliative Care.</li> </ul>	

### Evaluation Strategies:



Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Interactive lecture for didactic material.
2. Small group for discussing issues related to defining concepts
3. Brain storming, role-play and simulation for teaching.
4. Seminars and student presentations
5. Video Films, Overhead project.
6. Data show
7. Handouts
8. Scenarios

### Text Books & References:

#### Textbook:

1. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry. (2013). Paramedic Care: Principles & Practice, Volume 4: Medicine, 4th Edition
2. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
3. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P. Essentials of Paramedic Care Update (2016) 2nd Edition
4. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.

<h1>برنامج</h1> <h2>المهن الطبية المساعدة</h2>	
<b>Specialization</b>	يروفلا فاعسلا
<b>Course Number</b>	020806244
<b>Course Title</b>	Emergencies Paramedicine 2 /clinical
<b>Credit Hours</b>	(4)
<b>Theoretical Hours</b>	(0)
<b>Practical Hours</b>	(12)

## Brief Course Description:

- ❖ This course will demonstrate various medical emergencies with physical exam findings demonstrated interactively thru hands-on situational exercises. Case presentations will be significant demonstrations and will exercise skills and knowledge of differing styles in reporting of clinical information both in verbal and written forms. Prehospital assessment management of patients with a diagnosis of gastrointestinal (GI) disorders, renal failure, hematologic disorders, emergencies and high-altitude illness, and components of a behavioral emergency. Establish the detailed physical examination process for medical emergencies that commonly occurs in pre & in hospital setting.

## Course Objectives:

Upon completion of this course the student will be able to:

1. Demonstrate skills of prehospital management of patients with a diagnosis of specific medical diseases.
2. Demonstrate general prehospital management techniques for the patient with abdominal pain.
3. Perform prehospital management for the gastrointestinal (GI) disorders.
4. Assess emergent conditions associated with renal failure, including prehospital management.
5. Practice general assessment and management of patients with hematologic disorders.
6. Perform the paramedic's role in preventing disease transmission.
7. Perform prehospital assessment of a patient who is complaining of abdominal pain, GI, Genitourinary & Renal, Hematology, Non Traumatic Musculoskeletal, Toxicology, Behavioral & Psychiatric Disorders and Shock.

**Detailed Course Description:**

Unite Number	Unite Name	Unit Content	Time needed
1.	<b>Disease of Abdomen &amp; GI</b>	<ul style="list-style-type: none"> <li>Assessment process for the patient with Abdominal &amp; GI system emergency.</li> <li>Pre hospital management of patients diagnosed with Abdominal &amp; GI system disease.</li> </ul>	
2.	<b>Genitourinary &amp; Renal</b>	<ul style="list-style-type: none"> <li>Assessment process for the patient with Genitourinary &amp; renal emergency.</li> <li>Pre hospital management of patients diagnosed with Genitourinary &amp; renal disease.</li> </ul>	
3.	<b>Hematology</b>	<ul style="list-style-type: none"> <li>Assessment process for the patient with hematologic emergency.</li> <li>Pre hospital management of patients diagnosed with hematologic disease.</li> </ul>	
4.	<b>First Exam</b>		
5.	<b>Non Traumatic Musculoskeletal</b>	<ul style="list-style-type: none"> <li>Assessment process for the patient with non-traumatic musculoskeletal system emergency.</li> <li>Pre hospital management of patients diagnosed with non-traumatic musculoskeletal system disease.</li> </ul>	
6.	<b>Toxicology</b>	<ul style="list-style-type: none"> <li>Assessment and management of the patient who has ingested poison, Inhaled toxins, injected toxins and drug abuse.</li> </ul>	
7.	<b>Behavioral &amp; Psychiatric Disorders</b>	<ul style="list-style-type: none"> <li>Assessment and management of the patient who has behavioral and Psychiatric disorders.</li> </ul>	
8.	<b>Second Exam</b>		
9.	<b>Shock</b>	<ul style="list-style-type: none"> <li>Assessment and management of shock patients.</li> </ul>	

**Evaluation Strategies:**

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

**Teaching Methodology:**

1. Demonstration and re-demonstration (Lab and or / clinical setting hospital.
2. Role-Modeling
3. Simulation.
4. Lab activities
5. Scenarios
6. Models

**Text Books & References:****Textbook:**

1. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry. (2013). Paramedic Care: Principles & Practice, Volume 4: Medicine, 4th Edition
2. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
3. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P. Essentials of Paramedic Care Update (2016) 2nd Edition
4. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.



<h1>برنامج</h1> <h2>المهن الطبية المساعدة</h2>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806144
<b>Course Title</b>	Trauma Emergencies
<b>Credit Hours</b>	(2)
<b>Theoretical Hours</b>	(2)
<b>Practical Hours</b>	(0)

## Brief Course Description:

- ❖ Principles of Trauma Assessment and treatment priorities will be explored in this course. Trauma overview, mechanism of Injury, Injury Prevention, bleeding and soft tissue trauma, buns and several kinds of trauma and Special considerations for Elderly and Pediatric populations will be guided by recognized Standards. Establish the detailed physical examination process for trauma emergencies that commonly occurs in pre & in hospital setting.

## Course Objectives:

Upon completion of this course the student will be able to:

1. Describe the incidence and scope of traumatic injuries and deaths.
2. Identify the role of each component of the trauma system.
3. Predict injury patterns based on knowledge of the laws of physics related to forces involved in trauma.
4. Describe injury patterns that should be suspected when injury occurs related to a specific type of blunt trauma.
5. Describe the role of restraints in injury prevention and injury patterns.
6. Discuss how organ motion can contribute to injury in each body region depending on the forces applied.
7. Identify selected injury patterns associated with motorcycle and all-terrain vehicle collisions.
8. Describe injury patterns associated with pedestrian collisions.
9. Identify injury patterns associated with sports injuries, blast injuries, and vertical falls.
10. Describe factors that influence tissue damage related to penetrating injury, normal structure and function of the skin, the pathophysiological as a basis for key signs and symptoms, and describe the mechanism of injury and signs and symptoms of specific soft tissue injuries.
11. Outline management principles for prehospital care of soft tissue injuries.
12. Describe, in the correct sequence, patient management techniques for control of hemorrhage.

13. Identify the characteristics of general categories of dressings and bandages.
14. Describe prehospital management of specific soft tissue injuries not requiring closure.
15. Discuss factors that increase the potential for wound infection.
16. Describe the incidence, patterns, and sources of burn injury and pathophysiology of local and systemic responses to burn injury.
17. Classify burn injury according to depth, extent, and severity based on established standards.
18. Discuss the pathophysiology of burn shock as a basis for key signs and symptoms and outline the physical examination of the burned patient.
19. Discuss pathophysiology as a basis for key signs, symptoms, and management of the patient with an inhalation, chemical and electrical injury.
20. Outline the general assessment, complication and management of the patient who has inhalation, chemical and electrical injury.
21. Describe the distinguishing features of radiation injury and considerations in the prehospital management of these patients.
22. Describe the mechanisms of injury, assessment, and management of maxillofacial injuries, anterior neck trauma, ear, eye, scalp, cranial vault, or cranial nerves and dental injuries.
23. Distinguish between types of traumatic brain injury based on an understanding of pathophysiology and assessment findings.
24. Outline the prehospital management of the patient with cerebral injury.
25. Calculate a Glasgow Coma Scale, trauma score, Revised Trauma Score, and pediatric trauma score when given appropriate patient information.
26. Predict mechanisms of injury that are likely to cause spinal injury.
27. Describe the incidence, morbidity, and mortality, the anatomy and physiology and prehospital evaluation and assessment of the spine and spinal cord.
28. Outline the general assessment and prehospital management of a patient with suspected spinal injury.
29. Distinguish between types of spinal injury, spinal shock, neurogenic shock, and autonomic hyperreflexia syndrome.
30. Discuss mechanism of injury associated with chest trauma.

31. Describe heart and great vessels, pulmonary trauma, nontraumatic spinal conditions, the mechanism of injury, signs and symptoms, and management of skeletal injuries to the chest.
32. Outline the mechanism of injury, signs and symptoms, and prehospital care of the patient with esophageal and tracheobronchial injury and diaphragmatic rupture.
33. Identify mechanisms of injury associated with abdominal trauma.
34. Describe mechanisms of injury, signs and symptoms, and complications associated with abdominal solid organ, hollow organ, retroperitoneal organ, and pelvic organ injuries.
35. Outline the significance of injury to intraabdominal vascular structures and prehospital care of the patient with abdominal trauma.
36. Describe the prehospital assessment priorities for the patient suspected of having an abdominal injury and features of each class of bursitis, tendonitis, and arthritis and musculoskeletal injury.
37. Given a specific patient scenario, outline the prehospital assessment of the musculoskeletal system.
38. Outline general principles of splinting.
39. Describe the significance and prehospital management principles for selected upper and lower extremity injuries.

### Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time needed
1.	<b>Trauma Overview and Mechanism of Injury</b>	<ul style="list-style-type: none"> <li>• Epidemiology of Trauma</li> <li>• Trauma Systems.</li> <li>• Transportation.</li> <li>• Energy</li> <li>• Kinds of trauma &amp; motor Vehicle collisions.</li> <li>• Child Safety Seats.</li> <li>• Trauma system injuries.</li> <li>• Trauma assessment.</li> </ul>	
2.	<b>Bleeding and Soft Tissue Trauma</b>	<ul style="list-style-type: none"> <li>• Hemorrhage.</li> <li>• Skin Anatomy and Physiology.</li> <li>• Pathophysiology of Hemostasis of Wound Healing.</li> </ul>	

		<ul style="list-style-type: none"> <li>• Pathophysiology and Assessment of Soft Tissue Injuries.</li> <li>• Types of soft tissue injuries.</li> <li>• Management Principles for Soft Tissue Injuries.</li> <li>• Special Considerations for Soft Tissue Injuries.</li> </ul>	
3.	<b>Burns</b>	<ul style="list-style-type: none"> <li>• Incidence and Patterns of Burn Injury.</li> <li>• Types, degrees, severity of burns.</li> <li>• Burn Shock Pathophysiology.</li> <li>• Assessment and General Principles in Burn Management.</li> <li>• Special Considerations.</li> <li>• Assessment and management of inhalation, chemical, electrical, radiation exposure and lightning injuries.</li> </ul>	
4.	<b>First Exam</b>		
5.	<b>Head, Face, and Neck Trauma</b>	<ul style="list-style-type: none"> <li>• Assessment process for the patient with Head, Face, and Neck Trauma.</li> <li>• Pre hospital management of patients of Head, Face, and Neck Trauma.</li> </ul>	
6.	<b>Spine and Nervous System Trauma</b>	<ul style="list-style-type: none"> <li>• Spinal Trauma: Incidence, Morbidity, and Mortality.</li> <li>• Spinal Cord, column and Spinal Nerves.</li> <li>• Traditional Spinal Assessment Criteria.</li> <li>• General Assessment, classifications, evaluation and management of Spinal Injury.</li> <li>• Spinal and neurogenic shock.</li> <li>• Assessment and management of Nontraumatic Spinal Conditions.</li> </ul>	
7.	<b>Chest Trauma</b>	<ul style="list-style-type: none"> <li>• Skeletal injuries to the chest.</li> <li>• Pulmonary trauma.</li> <li>• Injuries to heart and great vessels.</li> <li>• Esophageal and tracheobronchial injury and diaphragmatic rupture.</li> <li>• Assessment and management process to chest trauma.</li> </ul>	
8.	<b>Second Exam</b>		
9.	<b>Abdominal</b>	<ul style="list-style-type: none"> <li>• Review of Abdominal Anatomy.</li> </ul>	



	<b>Trauma</b>	<ul style="list-style-type: none"> <li>Abdominal solid organ, hollow organ, retroperitoneal organ, and pelvic organ injuries.</li> <li>Significance of injury to intraabdominal vascular structures.</li> <li>Prehospital assessment priorities for the patient suspected of having an abdominal injury.</li> <li>Prehospital care of the patient with abdominal trauma.</li> </ul>	
10.	<b>Orthopedic Trauma</b>	<ul style="list-style-type: none"> <li>Review of Musculoskeletal System.</li> <li>Features of each class of musculoskeletal, bursitis, tendonitis and arthritis.</li> <li>Prehospital assessment of the musculoskeletal system.</li> <li>General principles of splinting.</li> <li>Significance and prehospital management principles for selected upper and lower extremity injuries.</li> <li>Prehospital management priorities for open fractures.</li> <li>Principles of realignment of angular fractures and dislocations.</li> </ul>	
11.	<b>Environmental Conditions</b>	<ul style="list-style-type: none"> <li>Physiology of thermoregulation.</li> <li>Risk factors, pathophysiology, assessment findings, and management of specific hyperthermic conditions, diving emergencies, high-altitude illness, frostbite submersion and drowning.</li> <li>Mechanical effects of atmospheric pressure changes on the body based on knowledge of the basic properties of gases.</li> </ul>	

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			

Discussions and lecture Presentations			
--	--	--	--

### Teaching Methodology:

1. Interactive lecture for didactic material.
2. Small group for discussing issues related to defining concepts
3. Brain storming, role-play and simulation for teaching.
4. Seminars and student presentations
5. Video Films, Overhead project.
6. Data show
7. Handouts
8. Scenarios

### Text Books & References:

#### Textbook:

1. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry. (2013). Paramedic Care: Principles & Practice, Volume 5: Trauma, 4th Edition
2. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry. (2013). Paramedic Care: Principles & Practice, Volume 3: Patient Assessment, 4th Edition
3. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
4. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P. Essentials of Paramedic Care Update (2016) 2nd Edition
5. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.

<h1>برنامج</h1> <h2>المهن الطبية المساعدة</h2>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806145
<b>Course Title</b>	Trauma Emergencies /clinical
<b>Credit Hours</b>	(2)
<b>Theoretical Hours</b>	(0)
<b>Practical Hours</b>	(6)



## Brief Course Description:

- ❖ Trauma assessment and treatment priorities are essential skills to be learned through individual and small group practice. Scenarios will be executed and group critique will enhance the Learners' knowledge. Additionally, assignments in writing scenarios and evaluation techniques will be mandatory. Skills will be actively pursued in varying situations and environmental conditions.
- ❖ This specialty program will emphasize the rapid assessment and life-threatening interventional skills in a scenario based venue. Critical thinking skills will be sharpened by practical scenarios conducted in out-of-hospital settings. Alternative Invasive techniques such as Cricothyrotomy, Pericardiocentesis, Needle Thorocostomy and Chest Tube placement will be introduced. Basic Radiographic interpretation of trauma related injuries will be presented with identification of common fracture sites associated with varying mechanisms of injury, cervical compromise, Endotracheal Intubation verification as well as pneumo-, hemo-pneumo and atelectasis recognition. Specific Specialized Rescue situations will be addressed. Burns, Hypothermia and Hyperthermia treatment modalities will be included in this course.

## Course Objectives:

Upon completion of this course the student will be able to:

1. The student will participate in Injury Prevention practices.
2. The student will demonstrate proficiency in Rapid Trauma Assessment and management practices (e.g. Scene safety, projecting potential injuries based on mechanism of injury).
3. The student will be able to verbalize Mechanisms of Injury and patterns in energy forces contributing to suspected bodily injuries and provide appropriate treatment accordingly.
4. The student will demonstrate knowledge in Trauma System design by providing appropriate transport decisions. Students will exhibit triage and trauma management capabilities.

**Detailed Course Description:**

Unit Number	Unit Name	Unit Content	Time needed
1.	<b>Trauma System and Mechanism of Injury</b>	<ul style="list-style-type: none"> <li>• Blunt Trauma.</li> <li>• Restraints.</li> <li>• Penetrating Trauma.</li> <li>•</li> </ul>	
2.	<b>Bleeding and Soft Tissue Trauma</b>	<ul style="list-style-type: none"> <li>• Assessment &amp; Management of Patients with Hemorrhage and shock.</li> <li>• Assessment &amp; Management Principles for Soft Tissue Injuries.</li> <li>• Special Considerations for Soft Tissue Injuries.</li> </ul>	
3.	<b>Burns</b>	<ul style="list-style-type: none"> <li>• Assessment and General Principles in Burn Management.</li> <li>• Special Considerations.</li> <li>• Assessment and management of inhalation, chemical, electrical, radiation exposure and lighting injuries.</li> </ul>	
4.	<b>First Exam</b>		
5.	<b>Head, Face, and Neck Trauma</b>	<ul style="list-style-type: none"> <li>• Assessment and management process for the patient with Head, Face, and Neck Trauma.</li> </ul>	
6.	<b>Spine and Nervous System Trauma</b>	<ul style="list-style-type: none"> <li>• Assessment and management of Spinal and neurogenic shock.</li> <li>• Assessment and management of Nontraumatic Spinal Conditions.</li> </ul>	
7.	<b>Chest Trauma</b>	<ul style="list-style-type: none"> <li>• Assessment and management process to chest trauma.</li> </ul>	
8.	<b>Second Exam</b>		
9.	<b>Abdominal Trauma</b>	<ul style="list-style-type: none"> <li>• Prehospital assessment priorities for the patient suspected of having an abdominal injury.</li> <li>• Prehospital care of the patient with abdominal trauma.</li> </ul>	
10.	<b>Orthopedic Trauma</b>	<ul style="list-style-type: none"> <li>• Prehospital assessment of the musculoskeletal system injuries.</li> <li>• General principles of splinting.</li> </ul>	

		<ul style="list-style-type: none"> <li>• Prehospital management priorities for open fractures.</li> <li>• Principles of realignment of angular fractures and dislocations.</li> </ul>	
11.	<b>Environmental Conditions</b>	<ul style="list-style-type: none"> <li>• Assessment and management of specific hyperthermic conditions, diving emergencies, high-altitude illness, frostbite submersion and drowning.</li> </ul>	

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Demonstration and re-demonstration (Lab and or / clinical setting hospital).
2. Role-Modeling
3. Simulation.
4. Lab activities
5. Scenarios
6. Models

### Text Books & References:

#### Textbook:

1. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry. (2013). Paramedic Care: Principles & Practice, Volume 5: Trauma, 4th Edition
2. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry. (2013). Paramedic Care: Principles & Practice, Volume 3: Patient Assessment, 4th Edition
3. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
4. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P. Essentials of Paramedic Care Update (2016) 2nd Edition
5. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.

<h1>برنامج</h1> <h2>المهن الطبية المساعدة</h2>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806251
<b>Course Title</b>	Cardiology and Electro-Cardiographic Interpretation
<b>Credit Hours</b>	(3)
<b>Theoretical Hours</b>	(2)
<b>Practical Hours</b>	(3)

## Brief Course Description:

- ❖ Didactic theory in this Course is designed to instruct the student in Basic ECG Interpretation, Cardiac function, electrophysiology, conduction disturbances, treatment and Resuscitation modalities will highlight in this course. Focusing in impaired cardiovascular function resulting in life threatening arrhythmias. Preparing student to clinical component related to cardiac emergencies.

## Course Objectives:

Upon completion of this course the student will be able to:

1. Identify risk factors and prevention strategies associated with cardiovascular disease.
2. Describe the normal anatomy and physiology of the heart.
3. Discuss electrophysiology as it relates to the normal electrical and mechanical events in the cardiac cycle.
4. Outline the activity of each component of the electrical conduction system of the heart.
5. Describe basic monitoring techniques that permit electrocardiogram (ECG) interpretation.
6. Explain the relationship of the electrocardiogram tracing to the electrical activity of the heart.
7. Describe in sequence the steps in electrocardiogram interpretation.
8. Identify the characteristics of normal sinus rhythm.
9. When shown an electrocardiogram tracing, identify the rhythm, site of origin, possible causes, clinical significance, and prehospital management that is indicated.
10. Outline the appropriate assessment of a patient who may be experiencing a cardiovascular disorder.
11. Describe prehospital assessment and management of patients with selected cardiovascular disorders based on knowledge of the pathophysiology of the illness.
12. Describe the cause and nature of selected congenital cardiovascular defects.
13. List indications, contraindications, and prehospital considerations when

using selected cardiac interventions, including basic life support, monitor-

- defibrillators, defibrillation, implantable cardioverter defibrillators, synchronized cardioversion, and transcutaneous cardiac pacing.
14. List indications, contraindications, dose, and mechanism of action for pharmacological agents used to manage cardiovascular disorders.
15. Identify appropriate actions to take in the prehospital setting to terminate resuscitation.

### Detailed Course Description:

Unite Number	Unite Name	Unit Content	Time needed
1.	<b>Cardiovascular Disease Risk Factors, Heart Anatomy, and Physiology</b>	<ul style="list-style-type: none"> <li>• Risk factors and prevention strategies associated with cardiovascular disease.</li> <li>• Anatomy and physiology of the heart.</li> </ul>	
2.	<b>Electrophysiology and the Electrical Conduction System</b>	<ul style="list-style-type: none"> <li>• Heart Electrophysiology</li> <li>• Electrical conduction system of the heart.</li> </ul>	
3.	<b>ECG Interpretation</b>	<ul style="list-style-type: none"> <li>• ECG Monitoring.</li> <li>• ECG Graph Paper.</li> <li>• Steps in Rhythm Analysis.</li> </ul>	
4.	<b>First Exam</b>		
5.	<b>Rhythm, Site of Origin, Causes, Clinical Significance, and Prehospital Management</b>	<ul style="list-style-type: none"> <li>• Dysrhythmias.</li> <li>• Use of Algorithms for Classification.</li> <li>• Conduction Dysrhythmia Disorders.</li> <li>• Common ECG Findings.</li> <li>• 12-Lead Monitoring.</li> </ul>	
6.	<b>Second Exam</b>		
7.	<b>Assessment</b>	<ul style="list-style-type: none"> <li>• The appropriate assessment of a patient who may be experiencing a cardiovascular disorder.</li> </ul>	
8.	<b>Cardiovascular Disorders Management</b>	<ul style="list-style-type: none"> <li>• Specific Cardiovascular Diseases.</li> <li>• Management of specific cardiovascular diseases.</li> </ul>	

9.	<b>Interventions and Pharmacology</b>	<ul style="list-style-type: none"> <li>• Specific Heart Disease.</li> <li>• Basic Cardiac Life Support.</li> <li>• Mechanical CPR Devices.</li> <li>• Monitor-Defibrillators, Defibrillation and AEDs.</li> <li>• Defibrillation Procedure.</li> <li>• Implantable Cardioverter Defibrillators.</li> <li>• Special Care Considerations.</li> <li>• Advanced Cardiac Emergency Care.</li> <li>• Post Cardiac Arrest Care.</li> </ul>	
----	---------------------------------------	---	--

**Evaluation Strategies:**

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

**Teaching Methodology:**

1. Overhead projector
2. Data show
3. Handouts
4. Scenarios

**Text Books & References:****Textbook:**

1. Brenda M. Beasley. (2014). Understanding EKGs: A Practical Approach (4th Edition)
2. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
3. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P. Essentials of Paramedic Care Update (2016) 2nd Edition
4. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.







1..

<h1>برنامج</h1> <h2>المهن الطبية المساعدة</h2>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806261
<b>Course Title</b>	Obstetrics & Gynecology
<b>Credit Hours</b>	(2)
<b>Theoretical Hours</b>	(1)
<b>Practical Hours</b>	(3)

## Brief Course Description:

- ❖ Didactic theory of obstetrics and gynecology emergencies with physical exam findings through situational exercises during pregnancy. Case presentations will be significant demonstrations and will exercise skills and knowledge of differing styles in reporting of theory and clinical information both in verbal and written forms. Patient Demographics in relation to common disease processes will be included along with Childbirth, Gynecology and Obstetrics emergencies.

## Course Objectives:

Upon completion of this course the student will be able to:

1. Describe the physiological processes of menstruation and ovulation.
2. Describe the pathophysiology of the following nontraumatic causes of abdominal pain in females: pelvic inflammatory disease, Bartholin's abscess, vaginitis, ruptured ovarian cyst, ovarian torsion, cystitis, dysmenorrhea, mittelschmerz, endometriosis, ectopic pregnancy, vaginal bleeding, uterine prolapse, and vaginal foreign body.
3. Outline the prehospital assessment and management of the female with abdominal pain or bleeding.
4. Outline specific assessment and management for the patient who has been sexually assaulted.
5. Describe specific prehospital measures to preserve evidence in sexual assault cases.
6. Describe the basic anatomy and physiology of the female reproductive system.
7. Outline fetal development from ovulation through birth.
8. Explain normal maternal physiological changes that occur during pregnancy and how they influence prehospital patient care and transportation.
9. Describe appropriate information to be elicited during the obstetrical patient's history.
10. Describe specific techniques for assessment of the pregnant patient.
11. Describe the general prehospital care of the pregnant patient.
12. Discuss the special implications of trauma in pregnancy.

13. Outline principles of care for a pregnant patient in cardiac arrest or peri-arrest.
14. Recognize and begin treatment for complications of pregnancy such as hyperemesis gravidarum, Rh sensitization, diabetes mellitus, and infection.
15. Describe the assessment and management of patients with preeclampsia and eclampsia.
16. Explain the pathophysiology, signs and symptoms, and management of vaginal bleeding in pregnancy.
17. Outline the physiological changes that occur during the stages of labor.
18. Describe the role of the paramedic during normal labor and delivery.
19. Compute an Apgar score.
20. Describe assessment and management of postpartum hemorrhage.
21. Discuss the identification, implications, and prehospital management of complicated deliveries.

### Detailed Course Description:

Unit Number	Unit Name	Unit Content	Time needed
1.	Gynecology	<ul style="list-style-type: none"> <li>• Female Anatomy.</li> <li>• Menstruation.</li> <li>• Gynecological Emergencies.</li> <li>• Gynecological Emergencies:</li> <li>• Assessment and Management.</li> </ul>	
2.	First Exam		
3.	Obstetrics	<ul style="list-style-type: none"> <li>• Female Reproductive Anatomy.</li> <li>• Normal Events in Pregnancy.</li> <li>• Infant Adaptations after Birth.</li> <li>• Pregnancy Terminology.</li> <li>• Patient Assessment.</li> <li>• General Management of the Obstetrical Patient.</li> </ul>	
4.	Second Exam		
5.	Obstetrics	<ul style="list-style-type: none"> <li>• Trauma during Pregnancy.</li> <li>• Special Management Considerations.</li> <li>• Complications in Pregnancy.</li> <li>• Labor and Delivery.</li> <li>• Evaluation of the Infant.</li> </ul>	

	Complication after delivery.	
--	------------------------------	--

**Evaluation Strategies:**

Exams	Percentage	Date
Exams	First Exam	20%
	Second Exam	20%
	Final Exam	50%
Homework and Projects		
Discussions and lecture Presentations		

**Teaching Methodology:**

1. Interactive lecture for didactic material.
2. Small group for discussing issues related to defining concepts
3. Brain storming, role-play and simulation for teaching.
4. Seminars and student presentations
5. Video Films, Overhead project.
6. Data show
7. Handouts
8. Scenarios

**Text Books & References:****Textbook:**

1. Sara Paterson-Brown & Charlotte Howell (2016), Managing Obstetric Emergencies and Trauma 3<sup>rd</sup> edition
2. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
3. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P. Paramedic Care: Principles & Practice (2016), Volume 5, 5th Edition
4. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.





<h1>برنامج</h1> <h2>المهنة الطبية المساعدة</h2>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806271
<b>Course Title</b>	Neonatal Care & Dynamic of Pediatric Emergency Care
<b>Credit Hours</b>	(3)
<b>Theoretical Hours</b>	(2)
<b>Practical Hours</b>	(3)



## Brief Course Description:

- ❖ This course is designed to provide a well-rounded knowledge base in the care of Neonate and Pediatric patients. Life span development and specific age-related illnesses and injuries will be highlighted. Anatomical differences in the Neonate, Child and Teenager will be reviewed to support alternative techniques in Assessment and Medical Management. In addition to that this course is designed to provide a clinical base in which to care for Neonate and Pediatric patients. Clinical sites within hospitals will include all available Neonate and Pediatric Units. Neonatal Resuscitation Program (NRP) and Pediatric Advanced Life Support (PALS) will be provided.

## Course Objectives:

Upon completion of this course the student will be able to:

1. Identify risk factors associated with the need for neonatal resuscitation.
2. Describe physiological adaptations at birth.
3. Describe pathophysiology and implications of selected genetic anomalies present in some neonates.
4. Outline the prehospital assessment and management of the neonate.
5. Describe resuscitation of the distressed neonate.
6. Discuss post resuscitative management and transport.
7. Describe signs and symptoms and prehospital management of specific neonatal resuscitation situations.
8. Identify injuries associated with birth.
9. Describe appropriate interventions to manage the emotional needs of the neonate's family.
10. Identify the role of the Emergency Medical Services for Children program.
11. Identify age-related illnesses and injuries in pediatric patients.
12. Outline the general principles of assessment and management of the pediatric patient.
13. Identify modifications in patient assessment techniques that assist in the examination of patients at different developmental levels.
14. Describe the pathophysiology, signs and symptoms, and management of selected respiratory, shock, dysrhythmias, hypoglycemia, hyperglycemia, infectious & seizures pediatric emergencies.

15. Identify common causes of poisoning and toxic exposure in the pediatric patient.
16. Describe special considerations for assessment and management of specific injuries in children.
17. Outline the pathophysiology and management of sudden infant death syndrome.
18. Describe the risk factors, key signs and symptoms, and management of injuries or illness resulting from child abuse and neglect.
19. Identify prehospital considerations for the care of infants and children with special needs.

### Detailed Course Description:

Unite Number	Unite Name	Unit Content	Time needed
1.	Neonatal Care	<ul style="list-style-type: none"> <li>• Risk Factors Associated with the Need for Resuscitation.</li> <li>• Physiological Adaptations at Birth.</li> <li>• Congenital Anomalies.</li> <li>• Assessment and Management of Neonate.</li> <li>• Specific Situations.</li> <li>• Common Birth Injuries.</li> <li>• Neonatal Resuscitation,</li> <li>• Post resuscitation, and Stabilization.</li> <li>• Psychological and Emotional Support.</li> </ul>	
2.	First Exam		
3.	Pediatrics	<ul style="list-style-type: none"> <li>• Paramedic's Role in Caring for Pediatric Patients.</li> <li>• EMS for Children.</li> <li>• Newborn (First Few Hours of Life).</li> <li>• Neonate (First 28 Days of Life).</li> <li>• Infant (2 to 12 Months).</li> <li>• Toddler (1 to 3 Years).</li> <li>• Preschooler (3 to 5 Years).</li> <li>• School Age (6 to 12 Years).</li> <li>• Adolescent (13 to 18 Years).</li> </ul>	
4.	Second Exam		
5.	Pediatrics	<ul style="list-style-type: none"> <li>• General Principles of Pediatric Assessment &amp; Management.</li> </ul>	



		<ul style="list-style-type: none"> <li>• Pediatric disorders.</li> <li>• Pediatric trauma.</li> <li>• Special Considerations for Specific Injuries.</li> <li>• Trauma Management Considerations for Pediatric Patients.</li> <li>• Sudden Infant Death Syndrome.</li> <li>• Child Abuse and Neglect.</li> <li>• Infants and Children with Special Needs.</li> </ul>	
--	--	---	--

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Interactive Lecture and situational discussion
2. AV Presentations – NRP & PALS
3. Individual and Team role-playing of scenario based simulations

### Text Books & References:

#### Textbook:

1. American Academy of Pediatrics and American Heart Association (2016), Textbook of Neonatal Resuscitation, 7th Edition
2. American Heart Association (2015), Pediatric Advanced Life Support Provider Manual.
3. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
4. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P. Essentials of Paramedic Care Update (2016) 2nd Edition
5. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson, (2015) Emergency Care Textbook, 13th Edition.

















<h1>برنامج</h1> <h2>المهن الطبية المساعدة</h2>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806245
<b>Course Title</b>	EMS Operations
<b>Credit Hours</b>	(2)
<b>Theoretical Hours</b>	(2)
<b>Practical Hours</b>	(0)

## Brief Course Description:

- ❖ Provides knowledge necessary to safely manage multi-casualty incidents and rescue situations, utilize air medical resources and identify hazardous materials, perform vehicle extrication, and minimize the associated risks related to terrorism and disaster.

## Course Objectives:

Upon completion of this course the student will be able to:

1. List standards that govern ambulance performance and specifications.
2. Discuss the tracking of equipment, supplies, and maintenance on an ambulance.
3. Outline the components that define a major incident.
4. Identify the components of an effective incident command system.
5. Outline the activities of the preplanning, scene management, and post disaster follow-up phases of an incident.
6. Outline each phase of a rescue operation.
7. Identify the appropriate personal protective equipment (PPE) for rescue operations.
8. List five types of weapons of mass destruction (WMDs).
9. Identify actions, signs and symptoms, biological weapons of mass destruction.
10. Identify actions, signs and symptoms, methods of distribution, and management of nuclear weapons of mass destruction.
11. Define hazardous materials terminology.
12. Describe resources to assist in identification and management of hazardous materials incidents.
13. Discuss how assessment-based management contributes to effective patient and scene assessment.
14. Describe factors that affect assessment and decision making in the prehospital setting.

## Detailed Course Description:

Unit	Unit Name	Unit Content	Time
------	-----------	--------------	------

Number			needed
1.	<b>Ground and Air Ambulance Operations</b>	<ul style="list-style-type: none"> <li>• Ambulance Standards.</li> <li>• Checking Ambulances.</li> <li>• Ambulance Stationing.</li> <li>• Safe Ambulance Operation.</li> <li>• Aeromedical Transportation.</li> </ul>	
2.	<b>Medical Incident Command</b>	<ul style="list-style-type: none"> <li>• Incident Command System.</li> <li>• Mass Casualty Incidents.</li> <li>• Principles and Technology of Triage.</li> <li>• Critical Incident Stress Management.</li> </ul>	
3.	<b>First Exam</b>		
4.	<b>Rescue Awareness and Operations</b>	<ul style="list-style-type: none"> <li>• Appropriate Training for Rescue Operations.</li> <li>• Rescuer Personal Protective Equipment.</li> <li>• Surface Water Rescue.</li> <li>• Hazardous Atmospheres.</li> <li>• Highway Operations.</li> <li>• Hazardous Terrain.</li> <li>• Assessment Procedures during Rescue.</li> </ul>	
5.	<b>Crime Scene Awareness</b>	<ul style="list-style-type: none"> <li>• Approaching the Scene.</li> <li>• Dangerous Residence.</li> <li>• Dangerous Highway Encounters.</li> <li>• Violent Street Incidents.</li> <li>• Violent Groups and Situations.</li> <li>• Safety Tactics.</li> <li>• Tactical Patient Care.</li> <li>• EMS at Crime Scenes.</li> </ul>	
6.	<b>Second Exam</b>		
7.	<b>Hazardous Materials Awareness</b>	<ul style="list-style-type: none"> <li>• Scope of Hazardous Materials</li> <li>• Laws and Regulations.</li> <li>• Identification of Hazardous Materials.</li> <li>• Personal Protective Clothing and Equipment.</li> <li>• Health hazards.</li> <li>• Response to Hazardous Materials Emergencies.</li> <li>• Rehabilitation and Medical Monitoring.</li> <li>• Emergency Management of Contaminated Patients.</li> <li>• Decontamination of Rescue Personnel and</li> </ul>	



		Equipment.	
8.	<b>Bioterrorism and Weapons of Mass Destruction</b>	<ul style="list-style-type: none"> <li>• History of Biological Weapons.</li> <li>• Critical Biological Agents and Responder Databases.</li> <li>• Methods of Dissemination.</li> <li>• Specific Biological Threats.</li> <li>• Nuclear and Radiological Threats.</li> <li>• Incendiary Threats.</li> <li>• Specific Chemical Threats.</li> <li>• Explosive threats.</li> <li>• Department of homeland security</li> <li>• Emergency Response General Guidelines.</li> </ul>	
9.	<b>Assessment-based management</b>	<ul style="list-style-type: none"> <li>• Effective Assessment.</li> <li>• The right stuff.</li> <li>• Optional "Take-In" Equipment.</li> <li>• General Approach to the Patient.</li> </ul>	

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Interactive lecture for didactic material.
2. Small group for discussing issues related to defining concepts
3. Brain storming, role-play and simulation for teaching.
4. Seminars and student presentations
5. Video Films, Overhead project.
6. Data show
7. Handouts
8. Scenarios

---

## Text Books & References:

### Textbook:

1. Jeffrey T. Lindsey Ph.D (2014) EMS Special Operations 1st Edition
2. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
3. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P.  
Essentials of Paramedic Care Update (2016) 2nd Edition
4. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.







<b>برنامج المهنة الطبية المساعدة</b>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806181
<b>Course Title</b>	Paramedic Protocol
<b>Credit Hours</b>	(1)
<b>Theoretical Hours</b>	(1)
<b>Practical Hours</b>	(0)

### Brief Course Description:

- ❖ This intensive study program will focus on the analysis of Medical Protocols, with a thorough emphasis on 'Standing Orders vs. Protocol' utilization. Medical Direction capabilities on-line, off-line and medical communications will be the focus.

### Course Objectives:

Upon completion of this course the student will be able to:

1. Recite various protocols and establish what medical treatment may be given without Medical Direction and under what circumstances.
2. Provide appropriate medical treatment based on the guidelines of Medical Direction.
3. Consider situations in which on-line Medical Direction is required but not possible or feasible and therefore identify those patients whom may be at risk.
4. Consider legal implications of Protocol use and violation of Medical Direction.

### Detailed Course Description:

Unite Number	Unite Name	Unit Content	Time needed
1.	General Patient Care (GPC) Protocol	<ul style="list-style-type: none"> <li>• General Patient Care (GPC) Protocol.</li> </ul>	
2.	Airway management protocols	<ul style="list-style-type: none"> <li>• General principles of airway management protocol.</li> <li>• Airway suctioning adult &amp; pediatric.</li> <li>• Bag valve mask adult.</li> <li>• Supraglottic airway adult &amp; pediatric.</li> <li>• Combitube Easy Tube Supraglottic Airway.</li> <li>• Oral intubation adult.</li> <li>• Nasal intubation adult.</li> <li>• Cryothyrotomy adult.</li> <li>• Laryngeal Mask Airway (LMA).</li> <li>• Rapid Sequence Intubation (RSI).</li> </ul>	

3.	<b>Medical Emergency protocols</b>	<ul style="list-style-type: none"> <li>• Altered mental status / Coma.</li> <li>• Altered mental status / Seizures.</li> <li>• Anaphylaxis / Allergic reaction.</li> <li>• Diabetic emergencies / Hypoglycemia.</li> <li>• Diabetic emergencies / Hyperglycemia (Ketoacidosis).</li> <li>• Overdose / Poisoning: absorption.</li> <li>• Overdose / Poisoning: ingestion.</li> <li>• Overdose / Poisoning: inhalation.</li> <li>• Overdose / Poisoning: injection.</li> <li>• Nausea &amp; vomiting + motion sickness.</li> <li>• Syncope.</li> <li>• Non traumatic shock / Hypo perfusion.</li> <li>• Asthma.</li> <li>• Stroke / Neurological emergencies.</li> </ul>	
4.	<b>First Exam</b>		
5.	<b>Trauma protocols</b>	<ul style="list-style-type: none"> <li>• Multiple trauma overviews.</li> <li>• Abdominal trauma.</li> <li>• Amputation.</li> <li>• Chest injury.</li> <li>• Extremities injury.</li> <li>• Face and neck trauma.</li> <li>• Head trauma.</li> <li>• Spinal Trauma.</li> <li>• Shock: Traumatic.</li> <li>• Eye injury.</li> <li>• Triage: Multiple patient assessments.</li> </ul>	
6.	<b>Cardiac emergency protocols</b>	<ul style="list-style-type: none"> <li>• Acute coronary syndrome.</li> <li>• ST – Segment elevation myocardial infarction (STEMI).</li> <li>• Bradycardia.</li> <li>• Tachycardia.</li> <li>• Asystole / Pulseless electrical activity (PEA).</li> <li>• VF / Pulseless VT.</li> <li>• Post cardiac arrest care.</li> <li>• Death in field.</li> <li>• Congestive heart failure / pulmonary edema.</li> <li>• Chest pain.</li> <li>• Pulmonary embolism.</li> </ul>	



7.	<b>Second Exam</b>		
8.	<b>Pediatric emergency protocols</b>	<ul style="list-style-type: none"> <li>• Pediatric general patient care.</li> <li>• Pediatric acute respiratory distress.</li> <li>• Croup / laryngo tracheal bronchitis.</li> <li>• Epiglottitis.</li> <li>• Pediatric altered mental status.</li> <li>• Pediatric seizures (active).</li> <li>• Pediatric shock and hypotension.</li> <li>• Pediatric allergic reaction.</li> <li>• Pediatric smoke inhalation.</li> <li>• Pediatric pain management.</li> <li>• Pediatric bradycardia.</li> <li>• Pediatric tachycardia.</li> <li>• Pediatric VF/ Pulseless VT.</li> <li>• Pediatric Asystole / PEA.</li> <li>• Pediatric trauma.</li> </ul>	
9.	<b>Environmental emergency protocols</b>	<ul style="list-style-type: none"> <li>• Bite and stings.</li> <li>• Burns.</li> <li>• Decompression / Diving injury.</li> <li>• Drowning.</li> <li>• High altitude illness.</li> <li>• Hyperthermia.</li> <li>• Hypothermia and frostbite.</li> <li>• Snake bites.</li> </ul>	
10.	<b>Gynecology and obstetrics emergency protocols</b>	<ul style="list-style-type: none"> <li>• Child birth.</li> <li>• Vaginal bleeding.</li> <li>• Pregnant trauma patient.</li> <li>• Preeclampsia.</li> <li>• Postpartum hemorrhage.</li> </ul>	
11.	<b>Hazardous material emergency protocols</b>	<ul style="list-style-type: none"> <li>• Approach to hazardous material.</li> <li>• Medical monitoring.</li> <li>• General medical approach.</li> <li>• Cyanide.</li> <li>• Methemoglobinemia.</li> <li>• Sulfides.</li> <li>• Fluoride.</li> <li>• Hydrocarbons.</li> </ul>	

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Interactive lecture for didactic material.
2. Small group for discussing issues related to defining concepts
3. Brain storming, role-play and simulation for teaching.
4. Seminars and student presentations
5. Video Films, Overhead project.
6. Data show
7. Handouts
8. Scenarios

### Text Books & References:

#### Textbook:

1. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
2. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P.  
Essentials of Paramedic Care Update (2016) 2nd Edition
3. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.
4. Jordanian Royal Medical Services Protocol (2016)

<h1>برنامج</h1> <h2>المهنة الطبية المساعدة</h2>	
<b>Specialization</b>	الاسعاف الفوري
<b>Course Number</b>	020806291
<b>Course Title</b>	Field training
<b>Credit Hours</b>	(3)
<b>Theoretical Hours</b>	(0)
<b>Practical Hours</b>	

### Brief Course Description:

- ❖ This field training course provides an opportunity to develop and apply clinical knowledge and skills to the actual treatment of emergency patients. As students are instructed in the theoretical practice of emergency medicine, they participate in various supervised clinical experiences. These experiences are designed to refine the skills involved in patient care. During field training, students have an opportunity to rotate through RMS hospitals. The field training enables students to apply their knowledge and clinical skills in the out-of-hospital environment. Students are assigned an experienced paramedic who will serve as a preceptor and mentor during each term.

### Course Objectives:

1. At the completion of Field Internship, the paramedic student will be able to comprehend, apply and evaluate clinical information while demonstrating technical proficiency in all skills and behavior necessary to fulfill the role as an entry level paramedic, and in a simulated patient care scenario.
2. At the completion of the unit, the paramedic student will have participated as team leader on at least 50 ambulance calls, performing patient assessment, developing and implementing an appropriate treatment plan and transport plan while under the direct supervision of Jordanian certified paramedic instructor.

### Detailed Course Description:

Unite Number	Unite Name	Unit Content	Time needed
1.	<b>Phase 1 Introduction &amp; Orientation to the Field Internship Service.</b>	<ul style="list-style-type: none"> <li>• At the completion of phase 1 of the field internship experience the paramedic student will be able to identify his/her preceptors, understand departmental rules as they apply to the station, the vehicle, safety, documentation, and QA/QI policies, and become familiar with the individual locations of emergency</li> </ul>	





		<p>equipment both in the station and the ambulance. This phase of internship will last at least 5 ambulance calls:</p> <ol style="list-style-type: none"> <li>Describe the 3 basic types of ambulance calls: medical emergencies, trauma emergencies, and transfers.</li> <li>Identify his/her role responsibility during calls.</li> <li>Determine what equipment is to be brought in on each call.</li> <li>Understand how to approach a call in terms of patient care.</li> <li>Understand service policy on infection control, safety, documentation, and QA/QI policies.</li> <li>Understand the documentation expectations of each ambulance call.</li> <li>Accurately perform a complete unit check at the beginning of each shift.</li> </ol>	
2.	<b>Phase 2: Task Responsibilities/Team Activities</b>	<ul style="list-style-type: none"> <li>At the completion of phase 2 of the field internship experience the paramedic student will be able to practice team cooperation in patient care delivery to include communication with co-workers, appropriate equipment operation, obtaining accurate vital signs, successful initiation of IVs on any patient requiring this therapy and reciting the dosages, indications and contraindications for all medications carried by the field internship site. This phase of internship should last at least 10 ambulance calls.</li> <li>Continue to perform all skills acquired during phase 1 while also: <ol style="list-style-type: none"> <li>Successful communication between the student and preceptors.</li> <li>Demonstration of appropriate and accurate operation, location, maintenance and various uses of equipment.</li> <li>Obtain a full and accurate set of vital signs to include respirations, heart rate,</li> </ol> </li> </ul>	



		<p>blood pressure, pupil status and skin condition.</p> <p>d. Perform a thorough patient assessment appropriate to patient's presentation and chief complaint.</p> <p>e. Formulate an accurate working impression utilizing information gathered to include age, physical exam and patient history, and communicate to the preceptor a triage consistent with the patient's condition.</p> <p>f. Decide upon a course of action and implement a team approach to carrying out a treatment plan.</p> <p>g. Given the opportunity, demonstrate knowledge of proper skill techniques and utilize all equipment to include IV initiation, ECG interpretation, ET intubation, medication administration and any other intervention appropriate to the patient's condition and the service protocol.</p> <p>h. Recite all dosages, indications and contraindications for any of the medications carried by the field internship site.</p> <p>i. Demonstrate a knowledge base consistent with information presented to the student to this point in the field internship experience.</p>	
3.	<b>Phase 3: Team Leader Responsibilities/Team Coordination</b>	<ul style="list-style-type: none"> <li>At the conclusion of phase 3 of the student's field internship experience, the student will be able to coordinate patient care and assign tasks to be able to comprehend, apply and evaluate clinical information while demonstrating technical proficiency in all skills and behavior necessary to fulfill the role as an entry level paramedic, and in a simulated patient care scenario.</li> <li>Continue to perform all skills acquired</li> </ul>	



		<p>during phases 1 and 2 while also:</p> <ul style="list-style-type: none"><li>a. Demonstrate appropriate scene management of any situation and function competently under stressful situations to include appropriate assessment, treatment and transportation priorities when multiple patients are encountered.</li><li>b. Demonstrate the ability to perform a thorough patient interview and physical assessment.</li><li>c. Demonstrate the ability to develop a treatment management plan and perform the necessary skills, or delegation of tasks when appropriate, related to emergency management of the patient.</li><li>d. Demonstrate effective communication between the student and preceptors, patients, family members, bystanders, public service personnel and other healthcare providers either orally, in writing or by radio.</li><li>e. Demonstrate the ability to accurately complete all the necessary reports associated with the patient contact.</li><li>f. Demonstrate integrity, self-motivation, self-confidence, appropriate appearance and personal hygiene, teamwork, diplomacy, appropriate communication, time management, respect, empathy, patient advocacy and careful delivery of service consistent with affective objectives outlined in the Cowley affective evaluation.</li></ul>	
--	--	---	--

### Evaluation Strategies:

Exams		Percentage	Date
Exams	First Exam	20%	--/--/----
	Second Exam	20%	--/--/----
	Final Exam	50%	--/--/----
Homework and Projects			
Discussions and lecture Presentations			

### Teaching Methodology:

1. Interactive lecture for didactic material.
2. Small group for discussing issues related to defining concepts
3. Brain storming, role-play and simulation for teaching.
4. Seminars and student presentations
5. Video Films, Overhead project.
6. Data show
7. Handouts
8. Scenarios

### Text Books & References:

#### Textbook:

1. Mick, J., & Kim, M. (2010). Mosby's Paramedic Textbook, 4th Edition.
2. Bryan E. Bledsoe, Robert S. Porter & Richard A. Cherry MS EMT-P.  
Essentials of Paramedic Care Update (2016) 2nd Edition
3. Daniel Limmer, Michael F. O'Keefe, Harvey Grant, Bob Murray, J. David Bergeron & Edward T. Dickinson. (2015) Emergency Care Textbook, 13th Edition.
4. Jordanian Royal Medical Services Protocol (2016)