

# Republic of Yemen

Ministry of Higher Education & Scientific Research

21 SEPTEMBER UNIVERSITY for MEDICALS & APPLIED  
SCIENCES



## Faculty of Medicine

Bachelor Program of Medicine and Surgery

### Course Specification

### Emergency medicine

**Course Code.** (A21P423)

2023



T4: This Template is Developed and Approved by CAQA-Yemen, 2023

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. abdulrakib alhanani	Dr. Adnan Al-athori	Dr. Adnan Al-athori	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

## I. General Information:

1.	Course Title:	Emergency medicine				
2.	Course Code:	A21P423				
3.	Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	
			Lecture	Tutorial/ Seminar	Lab	Clinical
		3	2	--		3
4.	Level/ Semester at which this Course is offered:	4 <sup>th</sup> Level / Second Semester				
5.	Pre –Requisite (if any):	Introduction to pharmacology & All Systems				
6.	Co –Requisite (if any):	None				
7.	Program (s) in which the Course is Offered:	Bachelor of medicine and surgery				
8.	Language of Teaching the Course:	English				
9.	Location of Teaching the Course:	Faculty of medicine				
10.	Prepared by:	Dr.Abdulrakib Al-hanani				
١١	Date and Number of Approval by Council:	2023				

## II. Course Description:

This course contributes to develop medical student's knowledge of diseases processes in cardiovascular, respiratory, neurological emergency and capability in providing emergency care to medical and trauma patients.

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III. Course Intended Learning Outcomes (CILOs) : Upon successful completion of the course, students will be able to:		Referenced PILOs		
<b>A. Knowledge and Understanding:</b>		I, P or M/ A		
a1	Mention method for assessment of medical and trauma patient in the emergency department	M	A1	
a2	Recognize the path physiology, clinical manifestations, and intervention for patient with acute cardiovascular, respiratory and neurological ,obstetric emergencies		A2	
a3	Describe the medical intervention for patients with medical and trauma receiving oxygen therapy, intermittent positive-pressure breathing,		A3	
<b>B. Intellectual Skills:</b>				
b1	Compare the various methods of patients monitoring (eg, central venous pressure, and arterial pressure monitoring).	A	B1	
b2	Analyze elements of an ECG rhythm strip: ventricular and atrial rate, ventricular and atrial rhythm, and arterial blood gases .		B2	
<b>C. Professional and Practical Skills:</b>				
c1	Show uses of cardiac monitor (ECG), respiratory devices.	P	C1	
c2	Construct the medical role in providing patients with mechanical ventilation		C2	
<b>D. Transferable Skills:</b>				
d1	Use the clinical process as a framework of care for patients with cardiovascular , pulmonary, neurological emergency	I	D1	

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d2	Recognize the applicability of the Code of Ethics		D3	
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**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	Mention method for assessment of trauma patient in the emergency department	<ul style="list-style-type: none"> <li>Lectures</li> <li>Discussions</li> </ul>	<ul style="list-style-type: none"> <li>Written exam</li> </ul>
a2	Recognize the path physiology, clinical manifestations, and intervention for patient with acute cardiovascular disease, respiratory diseases and neurological emergencies		
a3	Describe the medical intervention for patients receiving oxygen therapy, intermittent positive-pressure breathing, and process of weaning the patient from mechanical ventilation.		

**(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Compare the various methods of hemodynamic monitoring (eg, central venous pressure, pulmonary artery pressure, and arterial	<ul style="list-style-type: none"> <li>Lectures</li> <li>Discussions</li> <li>Video clips</li> <li>Clinical Training</li> </ul>	<ul style="list-style-type: none"> <li>Written exam</li> <li>Clinical Exam</li> </ul>
b2	Analyze elements of an ECG rhythm strip: ventricular and atrial rate, ventricular and atrial rhythm, and arterial blood gases		

**(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Show uses of cardiac monitor (ECG),	<ul style="list-style-type: none"> <li>Lectures</li> </ul>	<ul style="list-style-type: none"> <li>Clinical Exam</li> </ul>

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	respiratory devices.	<ul style="list-style-type: none"> <li>• Clinical Training</li> <li>• Discussions</li> <li>• Video clips</li> </ul>	
c2	Construct the emergency role in providing enteral nutrition, caring of patients with mechanical ventilation		
c3	Demonstrate the interventions of a patient who has emergency trauma	<ul style="list-style-type: none"> <li>▪ Lectures</li> <li>▪ Discussions</li> <li>▪ Demonstration</li> <li>▪ Video clips</li> </ul>	

**(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Use the clinical examination as a framework of care for patients with cardiovascular , pulmonary, neurological emergency	<ul style="list-style-type: none"> <li>• Case Study</li> <li>• Clinical Training</li> </ul>	<ul style="list-style-type: none"> <li>▪ Clinical Exam</li> <li>▪ Oral Discussions</li> </ul>
d2	Recognize the applicability of the Code of Ethics		

**IV. Course Contents:**

**A. Theoretical Aspect:**

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1.	<b>Introduction to emergency care</b>	<ul style="list-style-type: none"> <li>▪ Emergency medical services</li> <li>▪ Triage</li> </ul>	1	2	a1,a2
2.	<b>Life support</b>	<ul style="list-style-type: none"> <li>▪ Basic life support</li> <li>▪ Advanced life support</li> </ul>	2	4	a1,a2 c2,c3
3.	<b>Basic and advanced trauma life support</b>	<ul style="list-style-type: none"> <li>▪ Basic trauma life support</li> <li>▪ Advanced trauma life support</li> </ul>	2	2	a1,a3
4.	<b>emergency Cardiovascular disorders</b>	<ul style="list-style-type: none"> <li>▪ Acute coronary syndromes</li> <li>▪ Angina pectoris</li> <li>▪ Pericarditis</li> </ul>	2	4	a1,b1

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
5.	Mid-Term Theoretical Exam		1	2	a1, a2,a3, b1
6.	Emergency Respiratory disorders	<ul style="list-style-type: none"> <li>▪ Acute respiratory failure</li> <li>▪ Acute respiratory distress syndrome</li> <li>▪ Pulmonary embolism</li> <li>▪ Blood gases analysis</li> </ul>	2	4	a3,b2
7.	Mechanical ventilation	<ul style="list-style-type: none"> <li>▪ Positive pressure ventilation</li> </ul>	1	2	c2,c3
8.	emergency Neurological disorder	<ul style="list-style-type: none"> <li>▪ Traumatic brain injury &amp;</li> <li>▪ Stroke</li> <li>▪ Spinal cord injury</li> </ul>	2	4	a3,b3
9	Emergency Renal disorders	<ul style="list-style-type: none"> <li>▪ Acute renal failure</li> <li>▪ Fluid and electrolytes</li> </ul>	1	2	c1,c3
10	Obstetric emergency	<ul style="list-style-type: none"> <li>▪ Ectopic emergency</li> <li>▪ Abortion</li> </ul>	1	2	a1,a3
11	Final Theoretical Exam	...	1	2	a1, a2,a3, b1,b2
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

### B. Practical Aspect (Clinical) (Case Study):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Patient Assessment <i>Student Sheets</i>	3	9	a1,a2,b1
2	Patient Monitoring	3	9	c1,b2

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No.	Tasks/ Experiments	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
3	Therapeutic Devices	3	9	c2,c3,a3
4	End Tracheal Intubation	3	9	c3,d1,d2
5	Clinical Exam	1	3	b1,b2,c1,c2,c3,d1,d2
<b>Number of Weeks /and Units Per Semester</b>		<b>13</b>	<b>39</b>	

### C. Tutorial Aspect (if any):

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	NA			
<b>Number of Weeks /and Units Per Semester</b>				

### VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs(symbols)
1	Assignment 1: NA			
<b>Total</b>				

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Oral Discussions	5 <sup>th</sup> , 12 <sup>th</sup>	10	10%	d1,d2
2	Mid-Term Theoretical Exam	8 <sup>th</sup>	10	10%	a1, a2,a3, b1,b2
3	Final Clinical Exam	15 <sup>th</sup>	30	30%	b1,b2,c1,c2,c3,d1, d2
4	Final Theoretical Exam	16 <sup>th</sup>	50	50%	a1, a2,a3, b1,b2
<b>Total</b>			<b>100</b>	<b>100%</b>	

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## IX. Learning Resources:

### 1- Required Textbook(s):

1. John, Md. Marx, Robert, Md. Hockberger 2002 .Rosen's Emergency Medicine: Concepts And Clinical Practice 5th Edition By Mosby.....
2. George R. Schwartz 2000 .Principles And Practice Of Emergency Medicine 4th Edition, By Lippincott, Williams & Wilkins

## X. Course Policies: (Based on the Uniform Students' By law (2007))

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	<b>Other policies:</b> The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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## Faculty of Medicine

### Bachelor Program of Medicine and Surgery

## Course Plan (Syllabus) of Emergency medicine

**Course Code. A21P423**

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member:		Office Hours					
Location & Telephone No.:	-----						
E-mail:	--@--.--	SAT	SUN	MON	TUE	WED	THU

2023

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## II. Course Identification and General Information:

<b>Course Title:</b>	Emergency medicine				
<b>Course Code:</b>	A21P423				
<b>Credit Hours:</b>	<b>Credit Hours</b>	<b>Theory Contact Hours</b>		<b>Practical Contact Hours</b>	<b>Clinical</b>
		<b>Lecture</b>	<b>Tutorial/Seminar</b>	<b>Lab</b>	
	3	2	--		
<b>Level/ Semester at which this Course is offered:</b>	4th Level / Second Semester				
<b>Pre –Requisite (if any):</b>	Introduction to pharmacology & All Systems				
<b>Co –Requisite (if any):</b>	None				
<b>Program (s) in which the Course is Offered:</b>	Bachelor of medicine and surgery				
<b>Language of Teaching the Course:</b>	English				
<b>Location of Teaching the Course:</b>	Faculty of medicine				
<b>Prepared by:</b>	Dr.Abdulrakib Al-hanani				
١١ <b>Date and Number of Approval by Council:</b>	2023				

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### III. Course Description:

This course contributes to develop medical student's knowledge of diseases processes in cardiovascular, respiratory, neurological emergency and capability in providing emergency care to medical and trauma patients.

### IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

	<b>A. Knowledge and Understanding:</b>
a1	Mention method for assessment of medical and trauma patient in the emergency department
a2	Recognize the path physiology, clinical manifestations, and intervention for patient with acute cardiovascular, respiratory and neurological ,obstetric emergencies
a3	Describe the medical intervention for patients with medical and trauma receiving oxygen therapy, intermittent positive-pressure breathing,
	<b>B. Intellectual Skills:</b>
b1	Compare <b>the various methods</b> of patients monitoring (eg, central venous pressure, and arterial pressure monitoring).
b2	Analyze elements of an ECG rhythm strip: ventricular and atrial rate, ventricular and atrial rhythm, and arterial blood gases .
	<b>C. Professional and Practical Skills:</b>
c1	Show uses of cardiac monitor (ECG), respiratory devices.
c2	Construct the medical role in providing patients with mechanical ventilation
	<b>D. Transferable Skills:</b>
d1	Use <b>the clinical process</b> as a framework of care for patients with cardiovascular , pulmonary, neurological emergency
d2	Recognize the applicability of the Code of Ethics

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## IV. Course Contents:

### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1.	Introduction to emergency care	<ul style="list-style-type: none"> <li>Emergency medical services</li> <li>Triage</li> </ul>	1	2
2.	Life support	<ul style="list-style-type: none"> <li>Basic life support</li> <li>Advanced life support</li> </ul>	2	4
3.	Basic and advanced trauma life support	<ul style="list-style-type: none"> <li>Basic trauma life support</li> <li>Advanced trauma life support</li> </ul>	2	2
4.	emergency Cardiovascular disorders	<ul style="list-style-type: none"> <li>Acute coronary syndromes</li> <li>Angina pectoris</li> <li>Pericarditis</li> </ul>	2	4
5.	Mid-Term Theoretical Exam		1	2
6.	Emergency Respiratory disorders	<ul style="list-style-type: none"> <li>Acute respiratory failure</li> <li>Acute respiratory distress syndrome</li> <li>Pulmonary embolism</li> <li>Blood gases analysis</li> </ul>	2	6
7.	Mechanical ventilation	<ul style="list-style-type: none"> <li>Positive pressure ventilation</li> </ul>	1	2
8.	emergency Neurological disorder	<ul style="list-style-type: none"> <li>Traumatic brain injury &amp;</li> <li>Stroke</li> <li>Spinal cord injury</li> </ul>	2	4
9	Emergency Renal disorders	<ul style="list-style-type: none"> <li>Acute renal failure</li> <li>Fluid and electrolytes</li> </ul>	1	2
10	Obstetric emergency	<ul style="list-style-type: none"> <li>Ectopic emergency</li> <li>Abortion</li> </ul>	1	2

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
11	Final Theoretical Exam	...	1	2
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>

### B. Practical Aspect (Clinical) (Case Study):

No.	Tasks/ Experiments	Number of Weeks	Contact Hours
1	Patient Assessment <i>Student Sheets</i>	3	9
2	Patient Monitoring	3	9
3	Therapeutic Devices	3	9
4	End Tracheal Intubation	3	9
5	Clinical Exam	1	3
<b>Number of Weeks /and Units Per Semester</b>		<b>13</b>	<b>39</b>

### C. Tutorial Aspect (if any):

No.	Tutorial	Number of Weeks	Contact Hours
1	NA		
<b>Number of Weeks /and Units Per Semester</b>			

### VII. Assignments:

No.	Assignments	Week Due	Mark
1	Assignment 1: NA		
<b>Total</b>			

### VI. Teaching Strategies of the Course:

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خطأ! لم يتم العثور على مصدر المرجع.

## VII. Assessment Methods of the Course:

خطأ! لم يتم العثور على مصدر المرجع.

## VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Oral Discussions	5 <sup>th</sup> , 12 <sup>th</sup>	10	10%
2	Mid-Term Theoretical Exam	8 <sup>th</sup>	10	10%
3	Final Practical Exam	15 <sup>th</sup>	30	30%
4	Final Theoretical Exam	16 <sup>th</sup>	50	50%
Total			100	100%

## IX. Learning Resources:

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