

COURSE INFORMATION					
Course Title	Code	Phase/Semester	L+P Hour	Credits	ECTS
Emergency Medicine (Clinical Clerkship)	MED 413	4/7-8	30+42	2	2*

\* ECTS credits are the university credits of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program

Prerequisites	MED 302
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Language of Instruction	English/Turkish
Course Level	Second-cycle higher education (i.e. QF-EHEA-2, EQF-LLL-7, TYYÇ-7) with Master's Degree/ "Regulated Professions" legislation by EU 2005/36/EC Directive
Course Type	Compulsory
Course Coordinators	Emin Gökhan Gencer, MD. Asst. Prof.
Instructors	Sezgin Sarıkaya, MD. PhD. Prof. Mustafa Ferudun Çelikmen , MD. Asst.Prof. Pınar Tura, MD. Asst. Prof. Mustafa Yazıcıoğlu, MD. Asst. Prof. Cem Şimşek, MD. Asst. Prof. Hande Candemir. MD. Asst. Prof. Gözde Şen, MD. Emergency Med. Specialist. Erman Uygun, MD. Emergency Med. Specialist. Abuzer Kekeç, MD. Emergency Med. Specialist.
Assistants	Yunus Emre Vural MD Behiç Demir MD Ayfer İskender Öykü Çifçi
Goals	<p><b>The aims of this course are:</b></p> <ul style="list-style-type: none"> <li>● <b>convey</b> necessary knowledge to perform basic and advanced life support applications including special circumstances</li> <li>● <b>convey</b> the first and second look requirements in polytrauma patient and apply advanced trauma life support</li> <li>● <b>equip</b> students with knowledge, skills and attitudes required to perform basic and advanced airway management techniques</li> <li>● <b>convey</b> the basic principles of mortal illnesses like acute coronary syndromes, pulmonary emboli, aortic dissection, aortic aneurism, tension pneumothorax and their treatment modalities</li> <li>● <b>convey</b> the knowledge about the type of shocks, do the differentials and know enough knowledge for treatment.</li> </ul>

	<ul style="list-style-type: none"> <li>● <b>Convey the</b> basic principles of disaster management.</li> <li>● To differentiate toxidromes and have enough ability to manage a intoxicated patient.</li> </ul>
<b>Content</b>	Physical examination, mortal diseases presenting with chest pain and dispnea, toxidromes and intoxications, polytrauma patient, tachycardia, bradycardia, basic and advanced life support, advanced trauma life support, disaster management, basic and advanced airway management, shock management, interpretation of EKG

<b>Learning Outcomes</b> Graduate should be able to	<b>Program Outcomes</b>	<b>Teaching Methods</b>	<b>Assessment Methods</b>
<p><b>KNOWLEDGE</b></p> <ul style="list-style-type: none"> <li>● Synthesize chief complaint, history, physical examination, and available medical information to develop a differential diagnosis</li> <li>● Based on all of the available data, narrow and prioritize the list of weighted differential diagnoses to determine appropriate management</li> <li>● Demonstrate clear and concise documentation that describes medical decision- making, ED course, and supports the development of the clinical impression and management plan</li> <li>● Use diagnostic testing based on the pre-test probability of disease and the likelihood of test results altering management.</li> </ul>	1.1, 1.6	1, 2, 4	A, C
<p><b>SKILLS</b></p> <ul style="list-style-type: none"> <li>● Perform basic and advanced airway procedures, basic life support</li> <li>● Perform advanced cardiac and trauma life support for adults and children</li> <li>● Manage with a polytrauma patient</li> <li>● Differentiate the reasons of chest pain and treat acute coronary syndromes</li> <li>● Explain the types of shock, manage with a shock patient, define the differentials, select the proper treatment</li> <li>● Define the rythm on ECG, approach to a patint with tachycardia/bradycardia</li> </ul>	2.1, 2.8	1, 2, 4	A, C

<ul style="list-style-type: none"> <li>● Explain the toxidromes and approach to an intoxicated patient</li> <li>● Explain the basic principles of disaster management</li> <li>● Arrange necessary consultation with physicians and other professionals when needed</li> </ul>			
<p><b>ATTITUDE</b></p> <ul style="list-style-type: none"> <li>● Consider the expectations of those who provide or receive care in the ED and use communication methods that minimize the potential for stress, conflict, and miscommunication</li> <li>● Establish rapport with and demonstrate empathy toward patients and their families</li> <li>● Recognize and resolve interpersonal conflict in the emergency department including conflicts with patients and family</li> <li>● Communicate information to patients and families using verbal, nonverbal, written, and technological skills, and confirm understanding</li> <li>● Communicate risks, benefits, and alternatives to therapeutic interventions to patients and/or appropriate surrogates, and obtain consent when indicated</li> </ul>	4.3, 4.7, 4.12, 7.2, 9.4	1, 2, 4	Cd, Ee

<p><b>Teaching/Learning Methods:</b></p>	<ul style="list-style-type: none"> <li>● <b>CONTACT HOURS (CH)</b></li> <li>1. Theoretical-Class/Auditorium/Conference Hall/Multimedia <ul style="list-style-type: none"> <li>1.1. Lecture/Tutorial</li> <li>1.2. Case report</li> <li>1.3. Case presentation</li> <li>1.4. Research seminar</li> <li>1.5. Seminar</li> <li>1.6. Student seminar/Journal club</li> <li>1.7. Invited speaker</li> <li>1.8. Hospital conference</li> <li>1.9. Online/Distance or e-learning (paper based or ICT based)</li> <li>1.10. Other:</li> </ul> </li> <li>2. Theoretical-Group Activity/Interactive <ul style="list-style-type: none"> <li>2.1. Case discussion</li> <li>2.2. Discussion class</li> <li>2.3. Small group study session/Problem solving session/Brainstorm session</li> </ul> </li> </ul>
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- 2.4. Exercise class
- 2.5. Oral presentation and criticism
- 2.6. Panel
- 2.7. Workshop
- 2.8. Online/Distance or e-learning (paper based or ICT based)
- 2.9. Other:
- 3. Practice Based-Laboratory/Class
  - 3.1. Demonstration class
  - 3.2. Laboratory teaching
  - 3.3. Clinical skills laboratory
  - 3.4. Small group study session/Problem solving session
  - 3.5. Exercise class
  - 3.6. Workshop (practical class)
  - 3.7. Other:
- 4. Clerkship (Clinical practice and training)
  - 4.1. Field study/Fieldwork
  - 4.2. Outpatient clinic
  - 4.3. Patient bedside
  - 4.4. Imaging round
  - 4.5. Laboratory round
  - 4.6. Work based practice
  - 4.7. Grand round
  - 4.8. Operating room
  - 4.9. Invasive Intervention room
  - 4.10. Night shift at ward
  - 4.11. Night shift at intensive care unit
  - 4.12. Night shift at emergency care unit
  - 4.13. Other:
- 5. Work placement/Internship (Clinical performance under supervision)
  - 5.1. Field study/Fieldwork
  - 5.2. Outpatient clinic
  - 5.3. Patient bedside
  - 5.4. Imaging round
  - 5.5. Laboratory round
  - 5.6. Work based practice
  - 5.7. Grand round
  - 5.8. Operating room
  - 5.9. Invasive intervention room
  - 5.10. Night shift at ward
  - 5.11. Night shift at intensive care unit
  - 5.12. Night shift at emergency care unit
  - 5.13. Other:
- **INDEPENDENT STUDY HOURS (ISH)**
- 6. KNOWLEDGE (Levels: Knowledge, Comprehension, Application, Analysis, Synthesis, Evaluation)
  - 6.1. Theoretical/Written/Oral exam/s
  - 6.2. Presentation
  - 6.3. Seminar
  - 6.4. Discussion

	<ul style="list-style-type: none"> <li>6.5. Session</li> <li>6.6. Research paper writing</li> <li>6.7. Project writing</li> <li>6.8. Report writing</li> <li>6.9. Dissertation writing</li> <li>6.10. Homework</li> <li>6.11. Investigation/Survey study</li> <li>6.12. Other:</li> <li>7. SKILLS: (Levels: Imitation, Manipulation, Precision, Articulation, Naturalization) <ul style="list-style-type: none"> <li>7.1. Oral/practical exam/s</li> <li>7.2. Presentation</li> <li>7.3. Seminar</li> <li>7.4. Discussion</li> <li>7.5. Session</li> <li>7.6. Exercise</li> <li>7.7. Workshop</li> <li>7.8. Imaging round</li> <li>7.9. Laboratory round</li> <li>7.10. Grand round</li> <li>7.11. Other:</li> </ul> </li> <li>8. ATTITUDES (Receiving, Responding, Valuing, Organization, Characterization) <ul style="list-style-type: none"> <li>8.1. Questionnaire (self-assessment)</li> <li>8.2. Paper case</li> <li>8.3. Other:</li> </ul> </li> <li>9. COMPETENCY (Doing/Making, Co-ordinating/Operating, Observing/Analysing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing) <ul style="list-style-type: none"> <li>9.1. Portfolio preparation</li> <li>9.2. Clinical performance at outpatient wards</li> <li>9.3. Clinical performance at inpatient wards</li> <li>9.4. Clinical performance at night shifts (ward, emergency care unit, intensive care unit)</li> <li>9.5. Other: (e.g. mini-clinical exam, etc.)</li> </ul> </li> <li>10. PROFICIENCY (Doing/Making, Co-ordinating/Operating, Observing/Analysing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing) <ul style="list-style-type: none"> <li>10.1. Portfolio preparation</li> <li>10.2. Clinical performance at outpatient wards</li> <li>10.3. Clinical performance at inpatient wards</li> <li>10.4. Clinical performance at night shifts (ward, emergency care unit, intensive care unit)</li> <li>10.5. Other: (e.g. mini-clinical exam, etc.)</li> </ul> </li> </ul>
<b>Assessment Methods:</b>	<ul style="list-style-type: none"> <li>A. Knowledge Assessment <ul style="list-style-type: none"> <li>a. Written Exam (MCQ) (F, S)</li> <li>b. Objectively Structured Oral Examination (S)</li> <li>c. Oral Examination (F)</li> </ul> </li> </ul>

d.	Other: Student Presentations.
B.	Skills Assessment
a.	Practical Examination (F)
b.	Objectively Structured Practical Examination (S)
c.	Mini Clinical Examination (S)
d.	Other:
C.	Attitude Assessment
a.	Mini Clinical Examination (S)
b.	Questionnaire (self-assessment) (F)
c.	Paper case (S)
d.	Observation of behaviour (360°) (F, S)
e.	Other:
D.	Competency Assessment
a.	Mini Clinical Examination (S)
b.	Clerkship/Internship Guide/Checklist Assessment (F, S)
c.	Professional Portfolio Assessment (F)
d.	Presentation Performance Assessment (F)
e.	Seminar Performance Assessment (F)
f.	Project Writing Assessment (S)
g.	Other:
E.	Proficiency Assessment
a.	Mini Clinical Examination (S)
b.	Clerkship/Internship Guide/Checklist Assessment (F, S)
c.	Professional Portfolio Assessment (F)
d.	Presentation Performance Assessment (F)
e.	Seminar Performance Assessment (F)
f.	Other:
*F: Formative, S: Summative	

## COURSE CONTENT

**For Detailed information:**

[https://med.yeditepe.edu.tr/sites/default/files/phase\\_iv\\_apk\\_2021-2022\\_v8\\_26.04.2021.pdf](https://med.yeditepe.edu.tr/sites/default/files/phase_iv_apk_2021-2022_v8_26.04.2021.pdf)

Week	Topics					Study Materials	
1	<b>GROUP A</b>					Textbook, Lecture Notes, Guidelines, Case Files	
		<b>Monday</b> 04-Apr-2022	<b>Tuesday</b> 05-Apr-2022	<b>Wednesday</b> 06-Apr-2022	<b>Thursday</b> 07-Apr-2022		<b>Friday</b> 08-Apr-2022
	<b>09:00-12:00</b>	<b>Lecture</b> COVID-19 <i>Erman Uygun</i>	<b>Lecture</b> ACLS/BLS <i>Pinar Tura</i>	<b>Lecture</b> Shock <i>Hande Candemir</i>	<b>Student Presentations</b> Group A1-A2		<b>Student Presentations</b> Group A3-A4
		<b>Lecture</b> Approach to Chest Pain <i>Emin Gökhan Gencer</i>	<b>Lecture</b> Approach to Trauma Patient <i>Sezgin Sarıkaya</i>	<b>Lecture</b> ECG (Case Based) <i>Cem Şimşek</i>			
	<b>12:00-13:00</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>		<b>Lunch</b>
	<b>13:00-17:00</b>	<b>Lecture</b> Management of ACS <i>Mustafa Yazıcıoğlu</i>	<b>Lecture</b> Approach to Dispnea <i>Gözde Şen</i>	<b>Lecture</b> Airway Management <i>Mustafa Yazıcıoğlu</i>	<b>Clinical Experience (Emergency Department)</b>		<b>Clinical Experience (Emergency Department)</b>
		<b>Lecture</b> Disaster Preparedness <i>Mustafa Ferudun Çelikmen</i>	<b>Lecture</b> Stroke <i>Sezgin Sarıkaya</i>	<b>Lecture</b> Approach to the Poisoned Patient <i>Emin Gökhan Gençer</i>			
<b>17:00-21:00</b>	<b>Clinical Experience (Emergency Department)</b>	<b>Clinical Experience (Emergency Department)</b>	<b>Clinical Experience (Emergency Department)</b>	<b>Clinical Experience (Emergency Department)</b>	<b>Clinical Experience (Emergency Department)</b>		

2	<b>GROUP A</b>					Textbook, Lecture Notes, Guidelines, Case Files	
		<b>Monday</b> 11-Apr-2022	<b>Tuesday</b> 12-Apr-2022	<b>Wednesday</b> 13-Apr-2022	<b>Thursday</b> 14-Apr-2022		<b>Friday</b> 15-Apr-2022
	<b>09:00-12:00</b>	Student Presentations Group A5-A6	Student Presentations Group A7-A8	Student Presentations Group A9-A10	Student Presentations Group A11-A12		Theoretical Exam
	<b>12:00-13:00</b>	Lunch	Lunch	Lunch	Lunch		Lunch
	<b>13:00-17:00</b>	Clinical Experience (Emergency Department) (GroupA3a)	Clinical Experience (Emergency Department) (GroupA7a)	Clinical Experience (Emergency Department) (GroupA6a)	Clinical Experience (Emergency Department) (GroupA5a)		Evaluation Session
	<b>17:00-21:00</b>	Experience (Emergency Department) (GroupA3b)	Experience (Emergency Department) (GroupA7b)	Experience (Emergency Department) (GroupA6b)	Experience (Emergency Department) (GroupA5b)		

<b>RECOMMENDED SOURCES</b>	
<b>Textbooks</b>	<ul style="list-style-type: none"> <li>Rosen's Emergency Medicine Concepts and Clinical Practice 9th Edition</li> </ul>
<b>Additional Resources</b>	<ul style="list-style-type: none"> <li><a href="http://www.uptodate.com">www.uptodate.com</a></li> <li><a href="http://www.clinicalkey.com">www.clinicalkey.com</a></li> </ul>



<b>MATERIAL SHARING</b>	
<b>Documents</b>	Shared
<b>Assignments</b>	Shared
<b>Exams</b>	After the theoretical exam; exam questions are going to be discussed but not shared. After performance assessment; individual performance analysis reports/feedbacks will be shared.

### ASSESSMENT

<b>Question Types (Pencil-Paper Tests)</b>	<b>Proportion</b> <i>(in Pencil-Paper Tests)</i>
Multiple Choice Questions	100%
<b>Total</b>	<b>100%</b>
<b>Other Assessment Methods and Tools</b>	<b>Proportion</b> <i>(in Other Assessment Methods and Tools)</i>
Evaluation of Student Presentation	100%
<b>Total</b>	<b>100 %</b>
<b>Pass/Fail Decision</b>	<b>Proportion</b> <i>(in Pass/Fail Decision)</i>
Pencil-Paper Tests	50%
Other Assessment Methods and Tools	50%
<b>Total</b>	<b>100%</b>
<b>Question Types (Pencil-Paper Tests)</b>	<b>Proportion</b> <i>(in Pencil-Paper Tests)</i>
Multiple Choice Questions	100%
<b>Total</b>	<b>100%</b>
<b>Other Assessment Methods and Tools</b>	<b>Proportion</b> <i>(in Other Assessment Methods and Tools)</i>

Evaluation of Student Presentation	100%
<b>Total</b>	<b>100 %</b>
<b>Pass/Fail Decision</b>	<b>Proportion (in Pass/Fail Decision)</b>
Pencil-Paper Tests	50%
Other Assessment Methods and Tools	50%
<b>Total</b>	<b>100%</b>

<b>COURSE CATEGORY</b>
Compulsory

<b>COURSE'S CONTRIBUTION TO PROGRAM</b>					
Program Learning Outcomes (APK)	Contribution				
	1	2	3	4	5
1.1.2			X		
1.1.3			X		
1.1.4					X
1.1.5					X
1.1.6					X
1.1.7					X
1.1.8					X
1.1.9					X
1.1.10					X
1.1.12			X		
1.2.1				X	
1.2.2				X	
1.2.3				X	
1.3.1					X
2.1.1			X		

2.2.2					X
2.5.2					X
2.5.4				X	
3.2.1			X		
3.3.2					X

<b>ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION</b>				
<b>ACTIVITIES</b>	<b>#</b>	<b>Time (hour)</b>	<b>Workload (hour)</b>	
<b>TEACHING/LEARNING ACTIVITIES</b>				
<b>CONTACT HOURS</b>				
<b>Theoretical-Class/Auditorium/Conference Hall/Multimedia</b>				
Lecture/Tutorial	12	3	36	
Case report			0.00	
Case presentation			0.00	
Research seminar			0.00	
Seminar			0.00	
Student seminar/Journal club	12	2	24	
Invited speaker			0.00	
Hospital conference			0.00	
Online/Distance or e-learning (paper based or ICT based)			0.00	
Other:			0.00	
<b>Theoretical-Group Activity/Interactive</b>				
Case discussion			0.00	
Discussion class			0.00	

Small group study session/Problem solving session/Brainstorm session			0.00
Exercise class			0.00
Oral presentation and criticism			0.00
Panel			0.00
Workshop			0.00
Online/Distance or e-learning (paper based or ICT based)			0.00
Other:			0.00
<b>Practice Based-Laboratory/Class</b>			
Demonstration class			0.00
Laboratory teaching			0.00
Clinical skills laboratory			0.00
Small group study session/Problem solving session			0.00
Exercise class			0.00
Workshop (practical class)			0.00
Other:			0.00
<b>Clerkship (Clinical practice and training)</b>			
Field study/Fieldwork			0.00
Outpatient clinic			0.00
Patient bedside			0.00
Imaging round			0.00
Laboratory round			0.00
Work based practice			0.00
Grand round			0.00
Operating room			0.00
Invasive Intervention room	8	1	8
Night shift at ward			0.00
Night shift at intensive care unit			0.00
Night shift at emergency care unit	8	1	8
Other:			0.00
<b>Work placement/Internship (Clinical performance under supervision)</b>			
Field study/Fieldwork			0.00
Outpatient clinic			0.00
Patient bedside			0.00
Imaging round			0.00
Laboratory round			0.00
Work based practice			0.00
Grand round			0.00
Operating room			0.00
Invasive intervention room			0.00
Night shift at ward			0.00
Night shift at intensive care unit			0.00
Night shift at emergency care unit			0.00
Other:			0.00

<b>INDEPENDENT STUDY HOURS</b>			
<b>KNOWLEDGE (Levels: Knowledge, Comprehension, Application, Analysis, Synthesis, Evaluation)</b>			
Theoretical/Written/Oral exam/s			0.00
Presentation			0.00
Seminar			0.00
Discussion			0.00
Session			0.00
Research paper writing			0.00
Project writing			0.00
Report writing			0.00
Dissertation writing			0.00
Homework			0.00
Investigation/Survey study			0.00
Other:			0.00
<b>SKILLS: (Levels: Imitation, Manipulation, Precision, Articulation, Naturalization)</b>			
Oral/practical exam/s			0.00
Presentation			0.00
Seminar			0.00
Discussion			0.00
Session			0.00
Exercise			0.00
Workshop			0.00
Imaging round			0.00
Laboratory round			0.00
Grand round			0.00
Other:			0.00
<b>ATTITUDES (Receiving, Responding, Valuing, Organization, Characterization)</b>			
Questionnaire (self-assessment)			0.00
Paper case			0.00
Other:			0.00
<b>COMPETENCY (Doing/Making, Coordinating/Operating, Observing/Analyzing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing)</b>			
Portfolio preparation			0.00
Clinical performance at outpatient wards			0.00
Clinical performance at inpatient wards			0.00
Clinical performance at night shifts (ward, emergency care unit, intensive care unit)			0.00
Other: (e.g. mini-clinical exam, etc.)			0.00

<b>PROFICIENCY (Doing/Making, Coordinating/Operating, Observing/Analyzing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing)</b>			
Portfolio preparation			0.00
Clinical performance at outpatient wards			0.00
Clinical performance at inpatient wards			0.00
Clinical performance at night shifts (ward, emergency care unit, intensive care unit)			0.00
Other: (e.g. mini-clinical exam, etc.)			0.00
<b>ASSESSMENT/APPRaisal MODES (F: Formative, S: Summative)</b>			
<b>Knowledge Assessment</b>			
Written Exam (MCQ+EMQ+KFQ) (F, S)	10	1	10
Objectively Structured Oral Examination (S)			0.00
Oral Examination (F)			0.00
Other: (Case based oral presentation)	8	2	16
<b>Skills Assessment</b>			
Practical Examination (F)			0.00
Objectively Structured Practical Examination (S)			0.00
Mini Clinical Examination (S)			0.00
Other: Objectively Structured Clinical Examination (OSCE) (S)			0.00
<b>Attitude Assessment</b>			
Mini Clinical Examination (S)			0.00
Questionnaire (self-assessment) (F)			0.00
Paper case (S)			0.00
Observation of behavior (360°) (F, S)	1	8	10
Other:			0.00
<b>Competency Assessment</b>			
Mini Clinical Examination (S)			0.00
Clerkship/Internship Guide/Checklist Assessment (F, S)			0.00
Professional Portfolio Assessment (F)			0.00
Presentation Performance Assessment (F)	8	1	8
Seminar Performance Assessment (F)	8	1	8
Project Writing Assessment (S)			0.00
Other:			0.00
<b>Proficiency Assessment</b>			
Mini Clinical Examination (S)			0.00
Clerkship/Internship Guide/Checklist Assessment (F, S)			0.00
Professional Portfolio Assessment (F)			0.00
Presentation Performance Assessment (F)	8	1	8
Seminar Performance Assessment (F)	8	1	8
Other:			0.00

<b>ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION</b>			
Activities	Quantity day	Duration (Hour)	Total Workload (Hour)
Course Duration (2 weeks)	8	9	72
Hours for off-the-classroom study (Pre-study, practice, review/week)	2	4	8
Homework	-	-	-
Exam	1	3	3
<b>Total Work Load</b>			83
<b>Total Work Load / 35 (h)</b>			2.3
<b>ECTS Credit of the Course</b>			2