

COURSE INFORMATION					
Course Title	Code	Semester	L+P Hour	Credits	ECTS
Anesthesiology (Clinical Clerkship)	MED 508	5/9-10	17+26	3	3*

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

Prerequisites	Phase IV MED (MED 402, MED 403, MED 404, MED 405, MED 406, MED 407, MED 408, MED 409, MED 410, MED 411, MED 412, MED 413).
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Language of Instruction	English / Turkish
Course Level	First Cycle, (Bachelor of Science), Undergraduate, Directive 2005/36/EC; "Regulated Profession" (Exempt from EQF Level Scheme)
Course Type	Compulsory Professional/Clinical Clerkship (Professional and Clinical Skills: clinical skills performance at introductory clerkship level)
Course Coordinator	Özge KÖNER, MD, Prof.
Instructors	Sibel Temür, MD Prof. Hatice Türe, MD Prof Ferdi Menda, MD Prof. Tuğhan Utku MD Assoc. Prof. Nurcan Kızılcık, MD Assist. Prof. Ferda Kartufan, MD Assist. Prof.
Assistants	
Goals	The course aims to equip the clerkship attendees with necessary knowledge and skills to: <ul style="list-style-type: none"> • convey necessary knowledge on anesthesia and anesthesia methods, pharmacologic properties of anesthetic agents and their clinical practice. • equip students with skills and attitudes required to manage patients in the intensive care unit.
Content	transport ventilator use, airway management (<i>face mask ventilation, mayo tube -guide airway- insertion, laryngeal mask airway insertion</i>), performing endotracheal intubation on proper patient or on training model, performing cardiopulmonary resuscitation, hemodynamic monitoring practice on patients, preanesthetic patient evaluation.

Learning Outcomes	Program Outcomes (APK)	Teaching Methods	Assessment Methods
Students who take this course will be able to; (APK)			
Knowledge:			
<ul style="list-style-type: none"> define anesthesia and its theories, define the anesthetic agents, describe anesthesia methods and practices, evaluate anatomy of airway, list airway management equipment. 	1.1.	1, 2, 4, 6,9	A, B, D
Skills:			
manage airway (face mask ventilation, mayo tube -guide airway – and, laryngeal mask airway insertion, airway evaluation).	1.1., 1.2, 1.3,		
do endotracheal intubation on proper patient or on training model.	1.5., 1.6., 2.1., 2.2., 2.5., 3.3.	1, 2, 4, 6, 9	A, B, D
perform cardiopulmonary resuscitation.			
perform hemodynamic monitoring and analyse it.			
Attitudes:			
<ul style="list-style-type: none"> approach with right attitude to patients and their relatives value doctor-patient communication and patient privacy be prepared for cardiopulmonary resuscitation process follow clinical reflections of anesthetic drugs analyze which situations and patients require intensive care unit. 	1.2., 2.1., 2.2., 2.5.	1, 2, 4, 6, 9	A, B, D
Competencies:			
<ul style="list-style-type: none"> practice basic and advanced life support. Preanesthetic patient evaluation Airway management 	1.1., 1.2., 1.3., 2.5., 3.3.	1, 2, 4, 6, 9	A, B, D

For further details please see Academic Program Book of Phase V at http://med.yeditepe.edu.tr/sites/default/files/phase_5_0.pdf	
Teaching/Learning Methods:	<ul style="list-style-type: none"> CONTACT HOURS (CH) 1. Theoretical-Class/Auditorium/Conference Hall/Multimedia <ol style="list-style-type: none"> Lecture/Tutorial Case report Case presentation Research seminar Seminar Student seminar/Journal club Invited speaker Hospital conference Online/Distance or e-learning (paper based or ICT based) Other: 2. Theoretical-Group Activity/Interactive <ol style="list-style-type: none"> Case discussion

	<ul style="list-style-type: none"> 2.2. Discussion class 2.3. Small group study session/Problem solving session/Brainstorm session 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 <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> 6.1. Theoretical/Written/Oral exam/s 6.2. Presentation 6.3. Seminar 6.4. Discussion 6.5. Session 6.6. Research paper writing 6.7. Project writing 6.8. Report writing 6.9. Dissertation writing 6.10. Homework 6.11. Investigation/Survey study 6.12. Other: 7. SKILLS: (Levels: Imitation, Manipulation, Precision, Articulation, Naturalization) <ul style="list-style-type: none"> 7.1. Oral/practical exam/s
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	<ul style="list-style-type: none"> 7.2. Presentation 7.3. Seminar 7.4. Discussion 7.5. Session 7.6. Exercise 7.7. Workshop 7.8. Imaging round 7.9. Laboratory round 7.10. Grand round 7.11. Other: 8. ATTITUDES (Receiving, Responding, Valuing, Organization, Characterization) <ul style="list-style-type: none"> 8.1. Questionnaire (self-assessment) 8.2. Paper case 8.3. Other: 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"> 9.1. Portfolio preparation 9.2. Clinical performance at outpatient wards 9.3. Clinical performance at inpatient wards 9.4. Clinical performance at night shifts (ward, emergency care unit, intensive care unit) 9.5. Other: (e.g. mini-clinical exam, etc.) 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"> 10.1. Portfolio preparation 10.2. Clinical performance at outpatient wards 10.3. Clinical performance at inpatient wards 10.4. Clinical performance at night shifts (ward, emergency care unit, intensive care unit) 10.5. Other: (e.g. mini-clinical exam, etc.)
<p>Assessment Methods:</p>	<ul style="list-style-type: none"> A. Knowledge Assessment <ul style="list-style-type: none"> a. Written Exam (MCQ+EMQ+KFQ) (F, S) b. Objectively Structured Oral Examination (S) c. Oral Examination (F) d. Other: B. Skills Assessment <ul style="list-style-type: none"> a. Practical Examination (F) b. Objectively Structured Practical Examination (S) c. Mini Clinical Examination (S) d. Other: C. Attitude Assessment <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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
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COURSE CONTENT

For further details please see Academic Program Book of Phase V at http://med.yeditepe.edu.tr/sites/default/files/phase_5_0.pdf

Week Topics

Study Materials

1	Monday	Tuesday	Wednesday	Thursday	Friday
08.30-12.30	Introductory Session (Introduction to Anesthesia) <i>Özge Köner</i>	Clinical Experience (Inpatient/Outpatient)	Clinical Experience (Inpatient/Outpatient)	Clinical Experience (Inpatient/Outpatient)	Clinical Experience (Inpatient/Outpatient)
12.30-13:50	Lunch	Lunch	Lunch	Lunch	Lunch
14.00-14.50	Lecture Introduction to General Anesthesia <i>Özge Köner</i>	Lecture Intoxications-I <i>Özge Köner</i>	Lecture Sepsis I <i>Sibel Temür</i>	Lecture Acid-Base Disorders and Arterial Blood Gas Evaluation-I <i>Özge Köner</i>	Lecture Basic Life Support <i>Sibel Temür</i>
15.00-15.50	Lecture Fluid-Electrolyte Balance <i>Özge Köner</i>	Lecture Intoxications-II <i>Özge Köner</i>	Lecture Sepsis II <i>Sibel Temür</i>	Lecture Acid-Base Disorders and Arterial Blood Gas Evaluation-II <i>Özge Köner</i>	Lecture Advanced Life Support <i>Sibel Temür</i>
16.00-17.00	Lecture Acute Respiratory Insufficiency <i>Nurcan Kızılcık</i>	Independent Learning	Independent Learning	Independent Learning	Independent Learning

Textbook,
Lecture Notes,
Checklists,
Guidelines,
Case Files

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	Monday	Tuesday	Wednesday	Thursday	Friday
08.30-12.30	Clinical Experience (Inpatient/Outpatient)	Clinical Experience (Inpatient/Outpatient)	Clinical Experience (Inpatient/Outpatient)	Clinical Experience (Inpatient/Outpatient)	Assessment Session (Exam)
12.30-13:50	Lunch	Lunch	Lunch	Lunch	Lunch
14.00-14.50	Lecture Drowning and Near Drowning <i>Hatice Türe</i>	Lecture Shock <i>Tuğhan Utku</i>	Lecture Anaphylaxis <i>Ferdi Menda</i>	Clinical Experience (Inpatient/Outpatient)	Assessment Session
15.00-15.50	Lecture Thermoregulation <i>Hatice Türe</i>	Lecture Coma / Brain Death <i>Tuğhan Utku</i>	Lecture Pain <i>Ferdi Menda</i>	Clinical Experience (Inpatient/Outpatient)	
16.00-17.00	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Program Evaluation Session Review of the Exam Questions Evaluation of the Program <i>Özge KÖNER</i> <i>Sibel TEMÜR</i>

Textbook,
Lecture Notes,
Checklists,
Guidelines,
Case Files

RECOMMENDED SOURCES	
Textbook	<ol style="list-style-type: none"> 1. www.uptodate.com 2. www.clinicalkey.com 3. Morgan & Mikhail's, Clinical Anesthesiology, Lange, McGraw Hill Publishing 2018. 6th Edition.
Additional Resources	

MATERIAL SHARING	
Documents	Shared
Assignments	Shared
Exams	After the exam; exam questions, question discussions, After performance assessment; individual performance analysis reports/feedbacks will be shared.

COURSE CATEGORY	Compulsory Professional (Knowledge and Skills, Competency: clinical knowledge, clinical skills and competency)
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COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes (APK)	Contribution				
		1	2	3	4	5
1	1.1.					X
2	1.2.					X
3	1.3					X
4	1.5					X
5	1.6					X
6	2.1.					X
7	2.2.					X
8	2.5					X
9	3.3					X

ASSESSMENT (APK)	
<p>For further details please see Academic Program Book of Phase V at http://med.yeditepe.edu.tr/sites/default/files/phase_5_0.pdf</p>	
<p>Assessment Approaches, assessment methods and assessment tools that used in Phase V, Clerkship Programs are shown in below table.</p>	
Questions Types (Pencil-Paper Tests)	Proportion (in Pencil-Paper Tests)
Multiple Choice Questions	60%
Extended Matching Questions	20%
Key Features	20%
Total	100 %
Other Assessment Methods and Tools	Proportion (in Other Assessments Methods and Tools)
Structured Oral Exam (SOE)	80%
Portfolio Evaluation	20%
Total	100 %
Pass/Fail Decision	Proportion (in Pass/Fail Decision)
Pencil-Paper Tests	50%
Other Assessments Methods and Tools	50%
Total	100 %

* WEs consists of 50 questions.

Detailed Assessment Tables are shown for each clerkship program in related pages of Academic Program Book.

Assessment details also will be announced and explained in the introductory sessions at the beginning of the clerkship.

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION

MED Anesthesiology (7 Student Groups: From 1 to 7.) For further details please see Academic Program Book of Phase V at http://med.yeditepe.edu.tr/sites/default/files/phase_5_0.pdf			
ACTIVITIES	#	Time (hour)	Workload (hour)
TEACHING/LEARNING ACTIVITIES			
CONTACT HOURS			
Theoretical-Class/Auditorium/Conference Hall/Multimedia			
	19	1.0-1.5	23.50
Lecture/Tutorial			0.00
Case report			0.00
Case presentation			0.00
Research seminar			0.00
Seminar			0.00
Student seminar/Journal club			0.00
Invited speaker			0.00
Hospital conference			0.00
Online/Distance or e-learning (paper based or ICT based)			0.00
Other:			0.00
Theoretical-Group Activity/Interactive			
	1	3	3.00
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
Practice Based-Laboratory/Class			
Demonstration class			0.00
Laboratory teaching			0.00
Clinical skills laboratory	1	2	2.00
Small group study session/Problem solving session			0.00
Exercise class			0.00
Workshop (practical class)			0.00
Other:			0.00
Clerkship (Clinical practice and training)			
Field study/Fieldwork			
Outpatient clinic	1	4.00	4.00
Patient bedside	2	4.00	8.00
Imaging round			0.00
Laboratory round			0.00
Work based practice	1	4	4.00
Grand round			0.00
Operating room	4	4.00	16.00
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
Work placement/Internship (Clinical performance under supervision)			
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
INDEPENDENT STUDY HOURS			
KNOWLEDGE (Levels: Knowledge, Comprehension, Application, Analysis, Synthesis, Evaluation)			
Theoretical/Written/Oral exam/s	1	8	8.00
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
SKILLS: (Levels: Imitation, Manipulation, Precision, Articulation, Naturalization)			
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
ATTITUDES (Receiving, Responding, Valuing, Organization, Characterization)			
Questionnaire (self-assessment)			0.00
Paper case			0.00
Other:			0.00
COMPETENCY (Doing/Making, Coordinating/Operating, Observing/Analyzing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing)			
Portfolio preparation	1	4	4.00
Clinical performance at outpatient wards	1	4	4.00
Clinical performance at inpatient wards	4	4	16.00
Clinical performance at night shifts (ward, emergency care unit, intensive care unit)			0.00
Other: (e.g. mini-clinical exam, etc.)			0.00
PROFICIENCY (Doing/Making, Coordinating/Operating, Observing/Analyzing/Listening to/ Controlling/Driving, Choosing/Communicating/Enhancing, Conceiving/Visioning/Foreseeing)			
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
ASSESSMENT/APPRaisal MODES (F: Formative, S: Summative)			
Knowledge Assessment			
Written Exam (MCQ+EMQ+KFQ) (F, S)	1.00	1.00	1.00
Objectively Structured Oral Examination (S)			0.00
Oral Examination (F)			0.00
Other:			0.00
Skills Assessment			

Practical Examination (F)	1.00	1.00	1.00
Objectively Structured Practical Examination (S)			
Mini Clinical Examination (S)			0.00
Other: Objectively Structured Clinical Examination (OSCE) (S)			0.00
Attitude Assessment			
Mini Clinical Examination (S)			0.00
Questionnaire (self-assessment) (F)			0.00
Paper case (S)			0.00
Observation of behavior (360°) (F, S)			0.00
Other:			0.00
Competency Assessment			
Mini Clinical Examination (S)			0.00
Clerkship/Internship Guide/Checklist Assessment (F, S)			0.00
Professional Portfolio Assessment (F)	1	0,5	0.5
Presentation Performance Assessment (F)			0.00
Seminar Performance Assessment (F)			0.00
Project Writing Assessment (S)			0.00
Other:			0.00
Proficiency Assessment			
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)			0.00
Seminar Performance Assessment (F)			0.00
Other:			0.00
Total Workload per Course			96
ECTS Credits per Course (Exact)			3.2
ECTS Credits per Course (Rounded)			3.0
Course Dates Group 3 (Beginning)			09.09.2019

408

13.6

14.00

8 Eylül 2014

Course Dates Group 3 (Completion)	20.09.2019
Course Dates Group 4 (Beginning)	04.11.2019
Course Dates Group 4 (Completion)	15.11.2019
Course Dates Group 5 (Beginning)	09.12.2019
Course Dates Group 5 (Completion)	20.12.2019
Course Dates Group 6 (Beginning)	13.01.2020
Course Dates Group 6 (Completion)	24.01.2020
Course Dates Group 7 (Beginning)	17.02.2020
Course Dates Group 7 (Completion)	28.02.2020
Course Dates Group 1 (Beginning)	23.03.2020
Course Dates Group 1 (Completion)	03.04.2020
Course Dates Group 2 (Beginning)	27.04.2020
Course Dates Group 2 (Completion)	08.05.2020

14.kasım 2014

01.aralık.2014

6.şubat.2015

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity/ day	Duration (Hour)	Total Workload (Hour)
Course Duration (2 weeks)	10	4,5	45
Hours for off-the-classroom study (Pre-study, practice, review/week)	10	3	30
Homework	-	-	-
Exam	2	2	4
Total Work Load			79
Total Work Load / 30 (h)			2.63
ECTS Credit of the Course			3