

COURSE INFORMATON					
Course Title	Code	Semester	L+P Hour	Credits	ECTS
Anesthesiology (Clinical Clerkship)	MED 508	Phase 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

<b>Prerequisites</b>	The student that joins this course, should completed Phase 1, 2 , 3 and 4 year courses of medical faculty.
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<b>Language of Instruction</b>	English
<b>Course Level</b>	Second Cycle including First Cycle Degree (One Tier Programme)
<b>Course Type</b>	Compulsory
<b>Course Coordinator</b>	Özge KÖNER, MD, Prof.
<b>Instructors</b>	Sibel Temür, MD Prof. Hatice Türe, MD Prof Ferdı Menda, MD Prof. Tuğhan Utku MD Assoc. Prof. Nurcan Kızılcık, MD Assist. Prof. Ferda Kartufan, MD Assist. Prof.
<b>Assistants</b>	
<b>Goals</b>	The course aims to equip the clerkship attendees with necessary knowledge and skills to: <ul style="list-style-type: none"> <li>• <b>convey</b> necessary knowledge on anesthesia and anesthesia methods, pharmacologic properties of anesthetic agents and their clinical practice.</li> <li>• <b>equip</b> students <b>with</b> skills and attitudes required to manage patients in the intensive care unit.</li> </ul>
<b>Content</b>	transport ventilator use, airway <b>management</b> ( <i>face mask ventilation, mayo tube -guide airway- insertion, laryngeal mask airway insertion</i> ), <b>performing</b> endotracheal intubation on proper patient or on training model, <b>performing</b> cardiopulmonary resuscitation, hemodynamic monitoring practice on patients, preanesthetic patient evaluation.

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

<b>COURSE CONTENT</b>		
<b>Week</b>	<b>Topics</b>	<b>Study Materials</b>
<b>1</b>	<b>Introductory Session</b> (Introduction to Internal Medicine ) 4 hours	Materials for the course provided by the instructor
<b>1</b>	Clinical Experience (Inpatients / outpatient) 16 hours	Materials for the course provided by the instructor
<b>1</b>	Lecture Introduction to General anaesthesia	Materials for the course provided by the instructor
<b>1</b>	Lecture Fluid-Electrolyte Balance	Materials for the course provided by the instructor
<b>1</b>	Lecture Acute Respiratory Insufficiency	Materials for the course provided by the instructor
<b>1</b>	Lecture Intoxication-I	Materials for the course provided by the instructor
<b>1</b>	Lecture Intoxication-II	Materials for the course provided by the instructor
<b>1</b>	Lecture Sepsis I	Materials for the course provided by the instructor
<b>1</b>	Lecture Sepsis II	Materials for the course provided by the instructor
<b>1</b>	Lecture Acid-Base Disorders and Arterial Blood Gas Evaluation-I	Materials for the course provided by the instructor
<b>1</b>	Lecture Acid-Base Disorders and Arterial Blood Gas Evaluation-II	Materials for the course provided by the instructor
<b>1</b>	Lecture Basic Life Support	Materials for the course provided by the instructor

<b>1</b>	Lecture Advanced Life Support	Materials for the course provided by the instructor
<b>2</b>	Clinical Experience (Inpatient / Outpatient) 20 hours	Materials for the course provided by the instructor
<b>2</b>	Lecture Drowning and Near Drowning	Materials for the course provided by the instructor
<b>2</b>	Lecture Thermoregulation	Materials for the course provided by the instructor
<b>2</b>	Lecture Shock	Materials for the course provided by the instructor
<b>2</b>	Lecture Coma / Brain Death	Materials for the course provided by the instructor
<b>2</b>	Lecture Anaphylaxia	Materials for the course provided by the instructor
<b>2</b>	Lecture Pain	Materials for the course provided by the instructor

<b>NCC 2014 – Essential Medical Procedures (National Core Curriculum)</b>	<b>Performance Level</b>
Preparing medicines appropriately	4
Providing basic life support	3
Providing advanced life support	3
Giving recovery position to patient	4
Removal of foreign body with appropriate maneuver	4
Performing IM, IV enjection	4
Providing oxygen and nebule-inhaler treatment	4
Application and assessment of pulse-oxymer	4
Intubation	3
Starting IV line	4
"Airway" application	4
General condition and vital signs assessment	4
Respiratory system examination	3
Cardiovascular system examination	3

<b>RECOMMENDED SOURCES</b>	
<b>Textbook</b>	<ol style="list-style-type: none"> <li>1. <a href="http://www.uptodate.com">www.uptodate.com</a></li> <li>2. <a href="http://www.clinicalkey.com">www.clinicalkey.com</a></li> <li>3. Morgan &amp; Mikhail's, Clinical Anesthesiology, Lange, McGraw Hill Publishing 2018. 6<sup>th</sup> Edition.</li> </ol>

## Additional Resources

### ASSESSMENT (APK)

**For further details please see Academic Program Book of Phase V at**  
[http://med.yeditepe.edu.tr/sites/default/files/phase\\_5\\_0.pdf](http://med.yeditepe.edu.tr/sites/default/files/phase_5_0.pdf)

Assessment Approaches, assessment methods and assessment tools that used in Phase V, Clerkship Programs are shown in below table.

<b>Questions Types (Pencil-Paper Tests)</b>	<b>Proportion (in Pencil-Paper Tests)</b>
Multiple Choice Questions	60%
Extended Matching Questions	20%
Key Features	20%
<b>Total</b>	<b>100 %</b>
<b>Other Assessment Methods and Tools</b>	<b>Proportion (in Other Assessments Methods and Tools)</b>
Structured Oral Exam (SOE)	80%
Portfolio Evaluation	20%
<b>Total</b>	<b>100 %</b>
<b>Pass/Fail Decision</b>	<b>Proportion (in Pass/Fail Decision)</b>
Pencil-Paper Tests	50%
Other Assessments Methods and Tools	50%
<b>Total</b>	<b>100 %</b>

\* 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.

### 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

Expertise / Field Courses

COURSE'S CONTRIBUTION TO PROGRAM						
	PODG.1. Basic Professional Competencies	Contribution				
	POD.1.1. Clinical Competencies	1	2	3	4	5
PO.1.1.1.	<b>values</b> preventive health services, <b>offers</b> primary prevention (i.e. prevention of diseases for the protection of health), secondary prevention (i.e. early diagnosis and treatment) tertiary prevention (i.e. rehabilitation) and quaternary prevention (i.e. prevention of excessive and unnecessary diagnosis and treatment) services, <b>provides</b> consultancy on these issues.			X		
PO.1.1.2.	<b>employs</b> a patient-centered approach in patient management.			X		
PO.1.1.3.	<b>recognizes</b> most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions.			X		
PO.1.1.4.	<b>takes</b> medical history from the applicant himself/herself or from the individual's companions.			X		
PO.1.1.5.	<b>does</b> general and focused physical and mental examination.			X		
PO.1.1.6.	<b>interprets</b> findings in medical history, physical and mental examination.			X		
PO.1.1.7.	<b>employs</b> diagnostic procedures that are used frequently at the primary health care level.			X		
PO.1.1.8.	<b>selects</b> tests that have evidence-based high efficacy at the primary health care level and <b>interprets</b> results.			X		
PO.1.1.9.	<b>makes</b> clinical decisions using evidence-based systematic data in health care service.			X		
PO.1.1.10.	<b>performs</b> medical interventional procedures that are used frequently at the primary health care level.			X		
PO.1.1.11.	<b>manages</b> healthy individuals and patients in the context of health care services.			X		
PO.1.1.12.	<b>keeps</b> medical records in health care provision and <b>uses</b> information systems to that aim.			X		
	<b>POD.1.2. Competencies related to Communication</b>					
PO.1.2.1.	throughout his/her career, <b>communicates</b> effectively with health care beneficiaries, co-workers, accompanying persons, visitors, patient's relatives, care givers, colleagues, other individuals, organizations and institutions.			X		
PO.1.2.2.	<b>collaborates</b> as a team member with related organizations and institutions, with other professionals and health care workers, on issues related to health.			X		
PO.1.2.3.	<b>recognizes</b> the protection and privacy policy for health care beneficiaries, co-workers, accompanying persons and visitors.			X		
PO.1.2.4.	<b>communicates</b> with all stakeholders taking into consideration the socio-cultural diversity.			X		
	<b>POD.1.3. Competencies Related to Leadership and Management</b>					
PO.1.3.1.	<b>manages</b> and <b>leads</b> within the health care team in primary health care organization.			X		
PO.1.3.2.	<b>recognizes</b> the principles of health management and health sector economy, models of organization and financing of health care services.			X		
PO.1.3.3.	<b>recognizes</b> the resources in the health care service, the principles for cost-effective use.			X		
	<b>POD.1.4. Competencies related to Health Advocacy</b>					

<b>PO.1.4.1.</b>	<b>recognizes</b> the health status of the individual and the community and the factors affecting the health, <b>implements</b> the necessary measures to prevent effects of these factors on the health.					
<b>PO.1.4.2.</b>	<b>recognizes</b> and <b>manages</b> the health determinants including conditions that prevent access to health care.					
	<b>POD.1.5. Competencies related to Research</b>					
<b>PO.1.5.1.</b>	<b>develops, prepares</b> and <b>presents</b> research projects			X		
	<b>POD.1.6. Competencies related to Health Education and Counseling</b>					
<b>PO.1.6.1.</b>	<b>provides</b> consultancy services and <b>organizes</b> health education for the community to sustain and promote the health of individual and community.		X			
	<b>PODG.2. Professional Values and Perspectives</b>					
	<b>POD.2.1. Competencies related to Law and Legal Regulations</b>					
<b>PO.2.1.1.</b>	<b>performs</b> medical practices in accordance with the legal framework which regulates the primary health care service.		X			
	<b>POD.2.2. Competencies Related to Ethical Aspects of Medicine</b>					
<b>PO.2.2.1.</b>	<b>recognizes</b> basic ethical principles completely, and <b>distinguishes</b> ethical and legal problems.			X		
<b>PO.2.2.2.</b>	<b>pays importance to</b> the rights of patient, patient's relatives and physicians, and <b>provides</b> services in this context.			X		
	<b>POD.2.3. Competencies Related to Social and Behavioral Sciences</b>					
<b>PO.2.3.1.</b>	<b>relates</b> historical, anthropological and philosophical evolution of medicine, with the current medical practice.					
<b>PO.2.3.2.</b>	<b>recognizes</b> the individual's behavior and attitudes and factors that determine the social dynamics of the community.					
	<b>POD.2.4. Competencies Related to Social Awareness and Participation</b>					
<b>PO.2.4.1.</b>	<b>leads</b> community with sense of responsibility, behavior and attitudes in consideration of individual behaviors and social dynamics of the community, and if there is a necessity, <b>develops</b> projects directed towards health care services.					
	<b>POD.2.5. Competencies Related to Professional Attitudes and Behaviors</b>					
<b>PO.2.5.1.</b>	<b>displays</b> a patient-centered and holistic (biopsychosocial) approach to patients and their problems.		X			
<b>PO.2.5.2.</b>	<b>respects</b> patients, colleagues and all stakeholders in health care delivery.		X			
<b>PO.2.5.3.</b>	<b>displays</b> the proper behavior in case of disadvantaged groups and situations in the community.		X			
<b>PO.2.5.4.</b>	<b>takes</b> responsibility for the development of patient safety and healthcare quality.		X			
<b>PO.2.5.5.</b>	<b>evaluates</b> own performance as open to criticism, <b>realizes</b> the qualifications and limitations.		X			
	<b>PODG.3. Professional Development and Self-Worth</b>					
	<b>PODG.3.1. Personal Development and Values</b>					
<b>PO.3.1.1.</b>	<b>embraces</b> the importance of lifelong self-learning and <b>implements</b> .					

<b>PO.3.1.2.</b>	<b>embraces</b> the importance of updating knowledge and skills; <b>searches</b> current advancements and <b>improves</b> own knowledge and skills.					
<b>PO.3.1.3.</b>	<b>uses</b> English language at least at a level adequate to follow the international literature and to establish communication related to the profession.					
<b>POD.3.2. Competencies Related to Career Management</b>						
<b>PO.3.2.1.</b>	<b>recognizes</b> and <b>investigates</b> postgraduate work domains and job opportunities.					
<b>PO.3.2.2.</b>	<b>recognizes</b> the application requirements to postgraduate work/job domains, and <b>distinguishes</b> and <b>plans</b> any requirement for further training and work experience.					
<b>PO.3.2.3.</b>	<b>prepares</b> a resume, and <b>recognizes</b> job interview methods.					
<b>POD.3.3. Competencies Related to Protection and Development of Own Physical and Mental Health</b>						
<b>PO.3.3.1.</b>	<b>implements</b> the rules of healthy living.			X		
<b>PO.3.3.2.</b>	<b>displays</b> appropriate behavior specific to work under stressful conditions.			X		
<b>PO.3.3.3.</b>	<b>uses</b> self-motivation factors.			X		

<b>ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION</b>			
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
<b>Total Work Load</b>			79
<b>Total Work Load / 30 (h)</b>			2.63
<b>ECTS Credit of the Course</b>			3