

COURSE INFORMATION					
Course Title	Code	Semester	L+P+L Hour	Credits	ECTS
Surgical Anatomy(Clinical Clerkship)	MED 552	Phase 5 / 9-10	18 + 4 + 0	2	2*

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

<b>Prerequisites</b>	MED 104 + MED 203
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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>	Area Elective
<b>Course Coordinator</b>	Erdem Söztutar, Aikaterini Panteli
<b>Instructors</b>	Erdem Söztutar, Aikaterini Panteli, Edibe Bilişli Kara, Ahmet Saç
<b>Assistants</b>	
<b>Goals</b>	To develop a deep understanding of the anatomical structures and relationships of the human body, to identify and avoid potential risks and complications, and to improve surgical accuracy and precision
<b>Content</b>	Anatomy related to general, cardiothoracic and transplant surgeries. Anatomy related to gynecology and obstetrics, urology, and pediatric surgery. Anatomy related to neurosurgery and otolaryngology. Anatomy related to orthopedic and plastic and reconstructive surgery.

<b>Learning Outcomes</b> After participating in this clerkship program, students should be able to	<b>Programme Learning Outcomes</b>	<b>Teaching Methods</b>	<b>Assessment Methods</b>
1) <b>Describe</b> anatomy of the organs	1.1.1 – 1.1.3 – 1.1.5 – 2.4.1 - 2.5.1	1,2,3,9,12	A
2) <b>Describe</b> normal anatomy using imaging techniques	1.1.1 – 1.1.3 – 1.1.5 – 2.4.1 - 2.5.1	1,2,3,9,12	A
3) <b>Explain</b> anatomical basis of signs and symptoms of the surgical diseases	1.1.1 – 1.1.2 – 1.1.8 – 1.1.9 – 2.2.1 – 2.2.2 – 2.4.1 – 3.1.2 – 3.1.3 -	1,2,3,9,12	A
4) <b>Outline</b> common surgical interventions	1.1.1 – 1.1.2 – 1.1.4 – 1.1.5- 1.1.6- 1.1.7- 1.1.8- 1.1.9- 2.1.1-	1,2,3,9,12	A

	2.1.3- 2.1.4- 2.2.2- 2.3.1- 2.3.2- 2.4.1- 2.4.2- 2.4.3- 3.1.2- 3.1.4-		
5) <b>Explain</b> anatomical basis of complications	1.1.1- 1.1.3- 1.1.4- 1.1.5- 1.1.6- 1.1.7- 1.1.8- 1.1.9- 2.1.1- 2.1.2- 2.1.3- 2.1.4- 2.2.4- 3.1.2- 3.1.4	1,2,3,9,12	A
6) <b>Shows</b> anatomical structures using anatomical models	1.1.1- 1.1.5- 1.1.7- 2.1.1- 2.4.1- 2.5.1-	1,2,3,9,12	A
7) <b>Research</b> for anatomy related to minor surgical techniques	3.1.1- 3.1.2- 3.1.3- 3.1.4- 3.2.1- 3.2.2- 3.2.3	1,2,3,9,12	B
8) <b>Present</b> the research findings about anatomy related to minor surgical techniques	1.1.1- 1.1.5- 2.2.4- 2.4.1- 2.5.1- 3.1.2- 3.1.4- 3.2.1- 3.2.2- 3.2.3	1,2,3,9,12	B

<b>Teaching Methods:</b>	1: Lecture, 2: Question-Answer, 3: Discussion, 9: Simulation, 12: Case Study
<b>Assessment Methods:</b>	A: Testing B: Presentation

COURSE CONTENT		
Day	Topics	Study Materials
1	Lecture: Introduction to Surgical Anatomy	Lecture notes, Textbook chapters
1	Lecture: Topographic and Radiologic Anatomy of the Thorax	Lecture notes, Textbook chapters
1	Lecture: Topographic and Radiologic Anatomy of the Abdomen	Lecture notes, Textbook chapters
1	Lecture: Signs and Symptoms related to Thoraco-abdominal Organs	Lecture notes, Textbook chapters
1	Lecture: Surgical Approaches to Thoraco-abdominal Organs	Lecture notes, Textbook chapters
1	Practice: Thorax and Abdomen	Anatomy models, Cadaver, Radiographic Images
2	Lecture: Topographic and Radiologic Anatomy of the Pelvis	Lecture notes, Textbook chapters
2	Lecture: Signs and Symptoms related to Pelvic Organs	Lecture notes, Textbook chapters

2	Lecture: Surgical Approaches to Pelvic Organs	Lecture notes, Textbook chapters
2	Lecture: Developmental defects and Pediatric Surgery	Lecture notes, Textbook chapters
2	Practice: Pelvis	Anatomy models, Cadaver, Radiographic Images
3	Lecture: Topographic and Radiologic Neuroanatomy	Lecture notes, Textbook chapters
3	Lecture: Signs and Symptoms related to Central Nervous System	Lecture notes, Textbook chapters
3	Lecture: Surgical Approaches to Central Nervous System	Lecture notes, Textbook chapters
3	Lecture: Ear, Nose, and Throat Surgical Anatomy	Lecture notes, Textbook chapters
3	Practice: Central Nervous System, Ear, Nose, and Pharynx	Anatomy models, Cadaver, Radiographic Images
4	Lecture: Topographic and Radiologic Anatomy of the Head and Neck	Lecture notes, Textbook chapters
4	Lecture: Topographic and Radiologic Anatomy of the Limbs	Lecture notes, Textbook chapters
4	Lecture: Signs and Symptoms related to Bones, Joints, Muscles and Peripheral Nervous System	Lecture notes, Textbook chapters
4	Lecture: Surgical Approaches in Orthopedics and Plastic and Reconstructive Surgery	Lecture notes, Textbook chapters
4	Practice: Head and Neck, Upper and Lower Limbs	Anatomy models, Cadaver, Radiographic Images
5	Discussion: Minor Surgeries and Medical Esthetics	Research material

### RECOMMENDED SOURCES

<b>Textbook</b>	Moore Clinically Oriented Anatomy; Snell's Clinical Anatomy by Regions; Netter's Clinical Anatomy; Gray's Anatomy: The Anatomical Basis of Clinical Practice
<b>Additional Resources</b>	Lecture notes, Netter's Human Anatomy Atlas

### MATERIAL SHARING

<b>Documents</b>	Google Classroom
<b>Assignments</b>	Google Classroom

<b>ASSESSMENT</b>		
<b>IN-TERM STUDIES</b>	<b>NUMBER</b>	<b>PERCENTAGE</b>
Presentation	1	40
Exam (open ended questions)	1	60
<b>Total</b>		<b>100</b>
<b>CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE</b>		100
<b>Total</b>		<b>100</b>

<b>COURSE CATEGORY</b>	Expertise/Field Courses
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<b>COURSES CONTRIBUTION TO PROGRAM</b>					
<b>COMPETENCE AREA-1 / Professional Practices</b>	<b>Contribution</b>				
<b>COMPETENCE 1.1. Health Service Provider</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Competency 1.1.1.</b> Integrates knowledge, skills, and attitudes acquired from basic and clinical medical sciences, behavioral sciences, and social sciences to provide health services.					<b>X</b>
<b>Competency 1.1.2.</b> Demonstrates a biopsychosocial approach that considers the individual's sociodemographic and sociocultural background without discrimination based on language, religion, race, or gender in patient management.		<b>X</b>			
<b>Competency 1.1.3.</b> Prioritizes the protection and improvement of individuals' and community's health in the delivery of healthcare services.	<b>X</b>				
<b>Competency 1.1.4.</b> Performs the necessary actions in the direction of maintaining and improving the state of health as considering the individual, social, social and environmental factors affecting health.	<b>X</b>				
<b>Competency 1.1.5.</b> Provides health education to healthy/ill individuals and their families, as well as to other healthcare professionals, by recognizing the characteristics, needs, and expectations of the target audience.	<b>X</b>				
<b>Competency 1.1.6.</b> Demonstrates a safe, rational, and effective approach in the processes of protection, diagnosis, treatment, follow-up, and rehabilitation in health service delivery.			<b>X</b>		
<b>Competency 1.1.7.</b> Performs interventional and/or non-interventional procedures safely and effectively for the patient in the processes of diagnosis, treatment, follow-up, and rehabilitation.			<b>X</b>		
<b>Competency 1.1.8.</b> Provides healthcare services considering patient and employee health and safety.			<b>X</b>		
<b>Competency 1.1.9.</b> Considers changes related to the physical and socio-economic environment at both regional and global scales that affect health, as well as changes in the individual characteristics and behaviors of those who seek healthcare services.	<b>X</b>				
<b>COMPETENCE AREA-2 / Professional Values and Approaches</b>	<b>Contribution</b>				
<b>COMPETENCE 2.1. Adopting Professional Ethics and Principles</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Competency 2.1.1.</b> Considers good medical practices while performing the profession.			<b>X</b>		
<b>Competency 2.1.2.</b> Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession.				<b>X</b>	

<b>Competency 2.1.3.</b> Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity.					
<b>Competency 2.1.4.</b> Evaluates own performance in professional practices by considering own emotions and cognitive characteristics.	X				
<b>COMPETENCE 2.2. Health Advocate</b>					
<b>Competency 2.2.1.</b> Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health.	X				
<b>Competency 2.2.2.</b> Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health.		X			
<b>Competency 2.2.3.</b> Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality.					
<b>Competency 2.2.4.</b> Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it.			X		
<b>COMPETENCE 2.3. Leader-Manager</b>					
<b>Competency 2.3.1.</b> Demonstrates exemplary behavior and leadership within the healthcare team during service delivery.	X				
<b>Competency 2.3.2.</b> Utilizes resources in a cost-effective, socially beneficial, and compliant manner with regulations in the planning, implementation, and evaluation processes of healthcare services as the manager in the healthcare institution.			X		
<b>COMPETENCE 2.4. Team Member</b>					
<b>Competency 2.4.1.</b> Communicates effectively within the healthcare team and takes on different team roles as necessary.			X		
<b>Competency 2.4.2.</b> Displays appropriate behaviors while being aware of the duties and responsibilities of healthcare workers within the healthcare team.		X			
<b>Competency 2.4.3.</b> Works collaboratively and effectively with colleagues and other professional groups in professional practice.			X		
<b>COMPETENCE 2.5. Communicator</b>					
<b>Competency 2.5.1.</b> Communicates effectively with patients, their families, healthcare professionals, and other occupational groups, institutions and organizations.				X	
<b>Competency 2.5.2.</b> Communicates effectively with individuals and groups who require a special approach and have different sociocultural characteristics.					
<b>Competency 2.5.3.</b> Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes.					
<b>COMPETENCE AREA-3 / Professional and Personal Development</b>	<b>Contribution</b>				
<b>COMPETENCE 3.1. Scientific and Analytical Approach</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Competency 3.1.1.</b> Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as well as those from other research, for the benefit of the community.		X			
<b>Competency 3.1.2.</b> Accesses and critically evaluates current literature related to their profession.					X
<b>Competency 3.1.3.</b> Applies evidence-based medicine principles in the clinical decision-making process.		X			
<b>Competency 3.1.4.</b> Uses information technologies to enhance the effectiveness of healthcare, research, and education activities.					X
<b>COMPETENCE 3.2. Lifelong Learner</b>					
<b>Competency 3.2.1.</b> Manages effectively individual study processes and career development.			X		
<b>Competency 3.2.2.</b> Demonstrates skills in acquiring, evaluating, integrating new information with existing knowledge, applying to					X

professional situations, and adapting to changing conditions throughout professional career.				
<b>Competency 3.2.3.</b> Selects the right learning resources to improve the quality of health care and organizes the learning process.			<b>X</b>	

<b>ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION</b>			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Lecture	5	3.5	17.5
Practice	4	1	4
Hours for off-the-classroom study (Pre-study, practice, review/week)	5	3	15
Research	4	5	20
Presentation	1	10	10
<b>Total Work Load</b>			66.5
<b>Total Work Load / 30 (h)</b>			2.22
<b>ECTS Credit of the Course</b>			2