

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.

Learning Outcomes	Programme Learning Outcomes	Teaching Methods	Assessment Methods
After participating in this clerkship program, students should be able to			
1) <b>Describe</b> anatomy of the organs	Contributes to all outcomes.	1,2,3,9,12	A
2) <b>Describe</b> normal anatomy using imaging techniques	Contributes to all outcomes.	1,2,3,9,12	A
3) <b>Explain</b> anatomical basis of signs and symptoms of the surgical diseases	Contributes to all outcomes.	1,2,3,9,12	A
4) <b>Outline</b> common surgical interventions	Contributes to all outcomes.	1,2,3,9,12	A

5) <b>Explain</b> anatomical basis of complications	Contributes to all outcomes.	1,2,3,9,12	A
6) <b>Shows</b> anatomical structures using anatomical models	Contributes to all outcomes.	1,2,3,9,12	A
7) <b>Research</b> for anatomy related to minor surgical techniques	Contributes to all outcomes.	1,2,3,9,12	B
8) <b>Present</b> the research findings about anatomy related to minor surgical techniques	Contributes to all outcomes.	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

<b>COURSE CONTENT</b>		
<b>Day</b>	<b>Topics</b>	<b>Study Materials</b>
1	Lecture: Introduction to Surgical Anatomy	Material for the course provided by the instructor
1	Lecture: Topographic and Radiologic Anatomy of the Thorax	Material for the course provided by the instructor
1	Lecture: Topographic and Radiologic Anatomy of the Abdomen	Material for the course provided by the instructor
1	Lecture: Signs and Symptoms related to Thoraco-abdominal Organs	Material for the course provided by the instructor
1	Lecture: Surgical Approaches to Thoraco-abdominal Organs	Material for the course provided by the instructor
1	Practice: Thorax and Abdomen	Material for the course provided by the instructor
2	Lecture: Topographic and Radiologic Anatomy of the Pelvis	Material for the course provided by the instructor
2	Lecture: Signs and Symptoms related to Pelvic Organs	Material for the course provided by the instructor
2	Lecture: Surgical Approaches to Pelvic Organs	Material for the course provided by the instructor

2	Lecture: Developmental defects and Pediatric Surgery	Material for the course provided by the instructor
2	Practice: Pelvis	Material for the course provided by the instructor
3	Lecture: Topographic and Radiologic Neuroanatomy	Material for the course provided by the instructor
3	Lecture: Signs and Symptoms related to Central Nervous System	Material for the course provided by the instructor
3	Lecture: Surgical Approaches to Central Nervous System	Material for the course provided by the instructor
3	Lecture: Ear, Nose, and Throat Surgical Anatomy	Material for the course provided by the instructor
3	Practice: Central Nervous System, Ear, Nose, and Pharynx	Material for the course provided by the instructor
4	Lecture: Topographic and Radiologic Anatomy of the Head and Neck	Material for the course provided by the instructor
4	Lecture: Topographic and Radiologic Anatomy of the Limbs	Material for the course provided by the instructor
4	Lecture: Signs and Symptoms related to Bones, Joints, Muscles and Peripheral Nervous System	Material for the course provided by the instructor
4	Lecture: Surgical Approaches in Orthopedics and Plastic and Reconstructive Surgery	Material for the course provided by the instructor
4	Practice: Head and Neck, Upper and Lower Limbs	Material for the course provided by the instructor
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

### 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>COURSE'S CONTRIBUTION TO PROGRAMME</b>						
No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
LO.1.1.1.	values preventive health services, offers 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, provides consultancy on these issues.					<b>X</b>
PO.1.1.2.	employs a patient-centered approach in patient management.				<b>X</b>	
PO.1.1.3.	recognizes most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions.					<b>X</b>
PO.1.1.4.	takes medical history from the applicant himself/herself or from the individual's companions. consideration the socio-cultural diversity.				<b>X</b>	
PO.1.1.5.	does general and focused physical and mental examination.				<b>X</b>	
PO.1.1.6.	interprets findings in medical history, physical and mental examination.			<b>X</b>		
PO.1.1.7.	employs diagnostic procedures that are used frequently at the primary health care level. taking into consideration the socio-cultural diversity.				<b>X</b>	
PO.1.1.8.	selects tests that have evidence-based high efficacy at the primary health care level and interprets results.				<b>X</b>	
PO.1.1.9.	makes clinical decisions using evidence-based systematic data in health care service..				<b>X</b>	
PO.1.1.10.	performs medical interventional procedures that are used frequently at the primary health care level.			<b>X</b>		
PO.1.1.11.	manages healthy individuals and patients in the context of health care services.		<b>X</b>			

PO.1.1.12.	keeps medical records in health care provision and uses information systems to that aim.				X
PO.1.2.1.	throughout his/her career, communicates 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.	collaborates 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.	recognizes the protection and privacy policy for health care beneficiaries, co-workers, accompanying persons and visitors.	X			
PO.1.2.4.	communicates with all stakeholders taking into consideration the socio-cultural diversity.			X	
PO.1.3.1.	manages and leads within the health care team in primary health care organization.			X	
PO.1.3.2.	recognizes the principles of health management and health sector economy, models of organization and financing of health care services.	X			
PO.1.3.3.	recognizes the resources in the health care service, the principles for cost-effective use.		X		
PO.1.4.1.	recognizes the health status of the individual and the community and the factors affecting the health, implements the necessary measures to prevent effects of these factors on the health.			X	
PO.1.4.2.	recognizes and manages the health determinants including conditions that prevent access to health care.	X			
PO.1.5.1.	develops, prepares and presents research projects.		X		
PO.1.6.1.	provides consultancy services and organizes health education for the community to sustain and promote the health of individual and community.			X	
PO.2.1.1.	performs medical practices in accordance with the legal framework which regulates the primary health care service.	X			
PO.2.2.1.	recognizes basic ethical principles completely, and distinguishes ethical and legal problems.	X			
PO.2.2.2.	pays importance to the rights of patient, patient's relatives and physicians, and provides services in this context.	X			
PO.2.3.1.	relates historical, anthropological and philosophical evolution of medicine, with the current medical practice.			X	
PO.2.3.2.	recognizes the individual's behavior and attitudes and factors that determine the social dynamics of the community.			X	
PO.2.4.1.	leads 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, develops projects directed towards health care services.	X			
PO.2.5.1.	displays a patient-centered and holistic (biopsychosocial) approach to patients and their problems.				X

PO.2.5.2.	respects patients, colleagues and all stakeholders in health care delivery.				X
PO.2.5.3.	displays the proper behavior in case of disadvantaged groups and situations in the community.			X	
PO.2.5.4.	takes responsibility for the development of patient safety and healthcare quality..				X
PO.2.5.5.	evaluates own performance as open to criticism, realizes the qualifications and limitations			X	
PO.3.1.1.	embraces the importance of lifelong self-learning and implements.				X
PO.3.1.2.	embraces the importance of updating knowledge and skills; searches current advancements and improves own knowledge and skills.				X
PO.3.1.3.	uses English language at least at a level adequate to follow the international literature and to establish communication related to the profession				X
PO.3.2.1.	recognizes and investigates postgraduate work domains and job opportunities.			X	
PO.3.2.2.	recognizes the application requirements to postgraduate work/job domains, and distinguishes and plans any requirement for further training and work experience.			X	
PO.3.2.3.	prepares a resume, and recognizes job interview methods.	X			
PO.3.3.1.	implements the rules of healthy living.		X		
PO.3.3.2.	displays appropriate behavior specific to work under stressful conditions.			X	
PO.3.3.3.	uses self-motivation factors	X			

<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
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