	COUR	SE INFORMATO	ON		
Course Title	Code	Semester	L+P Hour	Credits	ECTS
Thoracic Surgery (Clinical Clerkship)	MED 410	4/7-8	19+21	2	2*

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

Prerequisites	This course is mandatory for grade 4 students of Yeditepe University
Prefequisites	Faculty of Medicine.

Language of Instruction	English
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 Coordinator	Sina Ercan, MD. Prof.
	S. Volkan Baysungur, MD. Prof.
	Levent Alpay, MD. Prof.
Instructors	Serdar Evman, MD. Assoc. Prof.
	Aysun Kosif, MD. Assoc. Prof.
Assistants	-
Goals	Aim of this clerkship is to; 1. Equip students with necessary knowledge, skills and attitudes required to recognize emergencies of major airways, pulmonary vascular structures, lungs, chest wall, esophagus and other frequent pathologies, 2. Equip students with necessary knowledge, skills and attitudes required to complete initial workup to confirm diagnosis, 3. Equip students with necessary knowledge, skills and attitudes required to organize initial treatment as well as arranging quick transfer to a next level health center when needed, 4. Provide students with necessary theoretical and practical training.
Content	For further details please see Academic Program Book of Phase IV at https://med.yeditepe.edu.tr/sites/default/files/phase_iv_apk_2021-2022_v5_27.12.2021.pdf

			THORA	ACIC SURGERY Group 1				
	Wednesday <u>08 Dec. 2</u> 021 @Kayışdağı	Thursday 09 Dec 2021 @Sultanbeyli	Friday 10.Dec.2021 @Kayışdağı	Monday <u>13 Dec 2</u> 1 @Kayışdağı	Tuesday 14 Dec 2021 @Sultanbeyli	Wednesday 15 Dec 2021 @Sultanbeyli	Thursday 16 Dec 2021	Friday 17.Dec.2021 @Kayışdağı
08,00-08.45	Introductory Session Welcome & Acquaintance "Introduction to Thoracic Surgery" Sina Ercan	Clinical Experience চেইনট্যের ১৯৯৩ তেওঁ	Lecture Topographical Anatomy of the Thorax and Thoracic Incisions B. Sectial Events	Lecture Thoracic Trauma I Sysuo. Kosti	Clinical Experience Surgical Intensive care unit	Clinical Experience Surgical Intensive care unit B. Soutas Eurass	Independent Learning Preparation for the Exam	
09.00-09.45	Lecture Surgical Pathologies of Trachea and their Treatment Sina Ercan	Clinical Experience Surgical Ĉ esto Cost	Lecture Radiological Evaluation in Thoracic Surgery B-Sectar Everan	Lecture Thoracic Trauma II 89890-Koelf	Clinical Experience Surgical Operating room Avaira, Coall	Clinical Experience Surgical Operating room B.Sector Excert	Independent Learning Preparation for the Exam	Independent Learning Preparation for the Exam
10.00-10.45	Lecture Esophageal Diseases and Surgical Treatment Sina Ercan	Case Presentation (Faculty) Volkan Bassuogue	Lecture Chest Wall Diseses and Surgical Treatment B.Socdar Surgica	Lecture Benign Lung Diseases & Hydatic Cyst of the Lung	Clinical Experience InRatical Avaula Book	Clinical Experience Surgical B. Sector Excurs	Independent Learning Preparation for the Exam	
11.00-11.45	Case Presentation (Faculty)	Case Presentation (Faculty) Pneumothorax Radiology Volkan Source	Case Presentation (Faculty) E.Sectus Estrati	Case Presentation (Faculty) 85505 Cost	Lecture Surgical Treatment of the Pathologies of Pleural Spaces Volkan Bausupous	Lecture Preoperative Evaluation and Diagnostic Procedures in Thoracic Surgery Volkan Baseupasic	Independent Learning Preparation for the Exam	
11.45-13.00				Lunch		2	•	
13.00-13.40	Lecture Interventional Procedures in Thoracic Surgery Lexest Straw	Clinical Experience Surgical Bronchoscopy Levect Alrex	Lecture Spontaneous Pneumothorax and Bullous Disorders AVSUG 50855	Lecture Displayagedicel Displayagedicel Treatment B.Sociax Evolut	Clinical Experience Surgical Volkan Bausuosus	Clinical Skills Training Needle Thoracentesis on a Mannequin with Tension Pneumothorax	Independent Learning Preparation for the Exam	Written Exam
13.50-14.30	Lecture Minimal Invasive Surgical Approaches in Thoracic Diseases Loyeot Airax	Clinical Experience Surgical Tube thoracostomy Loveot black	Lecture Lung Cancers and Other Tumors of Lung อัมรบจ.เรื่องนั้น	Lecture Hemoptysis 6-Secdat Excuso	Clinical Experience InRatical Volkan Bossuodus	Clinical Skills Training Assessment Session Session	Independent Learning Preparation for the Exam	
14,40-15.20	Lecture Tracheobronchial & Esophageal Foreign Bodies Lecot State	Clinical Experience Surgical B.Sector Escret	Lecture Mediastinal Diseases and Surgical Treatment Avsuc. Kosik	Case Presentation (Faculty) B.Sedar Expan	Independent Learning Preparation for the Exam	Independent Learning Preparation for the Exam	Independent Learning Preparation for the Exam	- Oral Exam
15.30-16.10	Independent Learning Preparation for the Exam	Independent Learning Preparation for the Exam	Independent Learning Preparation for the Exam	Independent Learning Preparation for the Exam	Independent Learning Preparation for the Exam	Independent Learning Preparation for the Exam	Independent Learning Preparation for the Exam	Program Evaluat Session Review of the Ex Questions, Evaluation of th

Learning Outcomes At the end of this term, student should be able to:	Programme Learning Outcomes	Teaching Methods	Assessment Methods
Define anatomy of structures related to thoracic surgery including lungs, thoracic wall, mediastinum, major airways and esophagus,	PO.1.1.5.	1, 3, 4	А
Define necessary workup and invasive procedures in accordance with preliminary diagnosis	PO.1.1.7./PO 1.1.8.	1, 3, 4	А
3.1. Evaluate treatment options for patient according to preliminary diagnosis,	PO.1.1.9./PO .1.1.11.	1, 3, 4	А
3.2. Select appropriate treatment option for patient	PO.1.1.11.	1, 3, 4	А
4.0. Define findings of shock in patients with tension pneumothorax, hemoptysis, or trauma	PO.1.1.3./PO .1.1.6.	1, 3, 4	А
5.0. interpret basic concepts regarding blood transfusion, hemostasis, and coagulation	PO.1.1.10.	1, 3, 4	А
6.0. Interpret basic principles of surgical oncology	PO1.1.9./PO. 1.1.11.	1, 3, 4	А
7.0. Perform Physical Examination of a normal respiratory system and upper digestive system	PO.1.1.5./PO 1.1.6.	3, 4	А

8.0. Perform needle decompression of tension	_		
pneumothorax	PO.1.1.10.	4, 5	A, D
9.0. Assess mallampathy level of patient for a safe airway	PO.1.1.5./PO 1.1.6.	1, 3, 4	А
10.0. Locate appropriate point of drainage on patient, according to chest x-ray findings	PO.1.1.5./PO 1.1.6./PO.1.1 .10.	1, 3, 4	A
11.0. Realize physician's responsibilities to provide counseling and education to patient and patient's relatives regarding general health screening and surveillances (such as smoking cessation, colonoscopy, mammography, etc.) according to patient's sex, age and race if appropriate.	PO.1.1.1./PO .1.2.4./PO.2. 3.2.	1, 3, 4	А
12.0. Respect patient-doctor communication and patient privacy	PO.1.2.3./PO 2.2.1./PO.2.5 .2./PO.2.5.3.	1, 3, 4	A
13.0. Obtain complete history with appropriate communication skills and behaving in a good manner towards patient and patient's relatives.	PO.1.1.4.	1, 3, 4	А
14.0. Value providing appropriate transport conditions in accordance with regulations.	PO.1.1.2./PO .2.1.1.	1, 3, 4	А
15.0. Plan basic approach and treatment to traumatized patent.	PO.1.1.3./PO .1.1.6./PO.1. 1.11./PO.1.2. 2./PO.1.3.1./ PO.3.3.2.	1, 3, 4,	A
16.0. Plan initial management and workup tests of patient presented with respiratory insufficiency	PO.1.1.7./PO. 1.1.8./PO.1.1. 9.	1, 3, 4,	А
17.0. Do preliminary diagnosis in thoracic pathologies by going over differential diagnosis	PO.1.1.7./PO. 1.1.8./PO.1.1. 9.	1, 3, 4,	А
18.0. Realize importance of providing necessary information to patient or patient's relatives	PO.1.2.1./PO. 1.2.4.	1, 3, 4,	А
19.0. Manage postoperative wound care and dressing	PO1.1.10./PO. 1.1.11.	3, 4,	А
20.1. Do followup postoperative patients according to vital parameters, fluid and electrolyte balance, and surgical drain outputs,	PO.1.1.9./PO. 1.1.10./PO.1. 1.11./PO.1.1. 12.	1, 3, 4,	А

21.0. Refer patient to further health care centers upon indication	PO.1.1.11./PO .1.2.2./PO.1.4	1	А
20.2. Interpret correctly postoperative chest x-rays in order to plan appropriate management	PO.1.1.9./PO. 1.1.10.	1, 3, 4,	А

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Bedside teaching, 5: Other (OSCE)
Assessment Methods:	A: Testing (Multiple Choice and Extended Matching Questions; Structured Oral Exam), B: Presentation, C: Homework, D: OSCE

	COURSE CONTENT	
eek	Topics	Study Materials
	Introductory Session and Lecture	
1	(Welcome & Acquaintance "Introduction to Thoracic	Materials for the course
_	Surgery and its history)	provided by instructor
1	Lecture	Materials for the course
	Surgical Pathologies of Trachea and Their Treatment	provided by instructor
1	Lecture	Materials for the course
	Esophageal Diseases and Surgical Treatment	provided by instructor
1	Case Presentation (Faculty)	Materials for the course
		provided by instructor
1	Lecture	Materials for the course
	Topographical Anatomy of the Thorax and Thoracic Incision	provided by instructor
1	Lecture	Materials for the course
	Preoperative Evaluation and Diagnostic Procedures in Thoracic Surgery	provided by instructor
1	Lecture	Materials for the course
	Tracheobronchial & Esophageal Foreign Bodies	provided by instructor
1	Lecture	Materials for the course
	Interventional Procedures in Thoracic Surgery	provided by instructor
1	Clinical Experience	Materials for the course
	Inpatient	provided by instructor
1	Case Presentation (Faculty)	Materials for the course
	Pneumothorax Radiology	provided by instructor
1	Case Presentation (Faculty)	Materials for the course
		provided by instructor
1	Lecture	Materials for the course
	Radiological Evaluation in Thoracic Surgery	provided by instructor
1	Lecture	Materials for the course
	Hemoptysis	provided by instructor
1	Lecture	Materials for the course
	Mediastinal Diseases and Surgical Treatment	provided by instructor
1	Clinical Skills Training	Materials for the course
	Performing Needle Thoracentesis on a Mannequin with a Tension Pneumothorax	provided by instructor
1	Clinical Skills Training	Materials for the course
	Assessment Session	provided by instructor

Materials for the course ¹ Clinical Experience provided by instructor Surgical Materials for the course ¹ Lecture provided by instructor Spontaneous Pneumothorax and Bullous Disorders Materials for the course ¹ Lecture provided by instructor Thoracic Trauma I Materials for the course ¹ Lecture provided by instructor Thoracic Trauma II 1 Clinical Experience Materials for the course provided by instructor Inpatient Materials for the course 1 Case Presentation (Faculty) provided by instructor 1 Lecture Materials for the course Lung Cancers and Other Tumors of Lung provided by instructor 1 Lecture Materials for the course Minimal Invasive Surgical Approaches in Thoracic Diseases provided by instructor Materials for the course Benign Lung Diseases & Hydatic Cyst of the Lung provided by instructor Materials for the course 1 Clinical Experience provided by instructor Surgical Intensive Care Unit Materials for the course 1 Clinical Experience provided by instructor Surgical Operating Room 1 Lecture Materials for the course Surgical Treatment of the Pathologies of Pleural Spaces provided by instructor 1 Lecture Materials for the course Chest Wall Diseases and Surgical Treatment provided by instructor 1 Lecture Materials for the course Diaphragmatical Diseases and Surgical Treatment provided by instructor Materials for the course 1 Clinical Experience provided by instructor Surgical 1 Clinical Experience Materials for the course provided by instructor Surgical Tube Thoracostomy Materials for the course 1 Clinical Experience provided by instructor Surgical Materials for the course 1 Clinical Experience provided by instructor Surgical Bronchoscopy Materials for the course ¹ Written Exam

	RECOMMENDED SOURCES
Textbook	Göğüs Cerrahisi (Kırmızı Kitap), 2. Baskı, Editör Prof Dr Mustafa Yüksel, 2015 Nobel Tıp Kitapevi
Additional Resources	Ders sunumları

¹ Oral Exam

1 Program Evaluation Session

Review of the Exam Questions,

Evaluation of the Clerkship Program

provided by instructor Materials for the course

provided by instructor

provided by instructor

Materials for the course

	MATERIAL SHARING
Documents	Photocopy shareable.

Assignments	Not Shareable
Exams	Not shareable

ASSESSMENT

Question Types (Pencil.Paper Tests)	Proportion of Questions
Multiple Choice Questions	45%
Total	45%
Other Assessment Methods and Tools	Proportion
Oral Exam (OE)	50%
Objective Structured Clinical Exam (OSCE)	5%
Total	55%
Pass/Fail Decision	Proportion (in Pass/Fail Decision)
Pencil-Paper Tests	45%
Other Assessments Methods and Tools	55%
Total	100%

COURSE CATEGORY Compulsory

	COURSE'S CONTRIBUTION TO PROGRAMME						
No	Program Learning Outcomes	Contribution					
-	3	1	2	3	4	5	
PO.1.1.1.	<i>values</i> preventive health services, <i>offers</i> 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, <i>provides</i> consultancy on these issues.					X	
PO.1.1.2.	<i>employs</i> a patient-centered approach in patient management.				X		
PO.1.1.3.	<i>recognizes</i> most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions.				X		
PO.1.1.4.	<i>takes</i> medical history from the applicant himself/herself or from the individual's companions.				X		
PO.1.1.5.	<i>does</i> general and focused physical and mental examination.				X		
PO.1.1.6.	<i>interprets</i> findings in medical history, physical and mental examination.					X	

PO.1.1.7.	<i>employs</i> diagnostic procedures that are used frequently at the primary health care level.	Х
PO.1.1.8.	<i>selects</i> tests that have evidence-based high efficacy at the primary health care level and <i>interprets</i> results.	Х
PO.1.1.9.	<i>makes</i> clinical decisions using evidence-based systematic data in health care service.	Χ
PO.1.1.10.	<i>performs</i> medical interventional procedures that are used frequently at the primary health care level.	Х
PO.1.1.11.	<i>manages</i> healthy individuals and patients in the context of health care services.	Х
PO.1.1.12.	<i>keeps</i> medical records in health care provision and <i>uses</i> information systems to that aim.	X
	throughout his/her career, <i>communicates</i> effectively with health care beneficiaries, co-workers,	
PO.1.2.1.	accompanying persons, visitors, patient's relatives, care givers, colleagues, other individuals, organizations and institutions.	Х
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.	Х
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.	<i>communicates</i> with all stakeholders taking into consideration the socio-cultural diversity.	Х
PO.1.3.1.	<i>manages</i> and <i>leads</i> within the health care team in primary health care organization.	Χ
PO.1.4.1.	<i>recognizes</i> the health status of the individual and the community and the factors affecting the health, <i>implements</i> the necessary measures to prevent effects of these factors on the health.	Х
PO.2.1.1.	<i>performs</i> medical practices in accordance with the legal framework which regulates the primary health care service.	Х
PO.2.2.1.	<i>recognizes</i> basic ethical principles completely, and <i>distinguishes</i> ethical and legal problems.	X
PO.2.3.2.	<i>recognizes</i> the individual's behavior and attitudes and factors that determine the social dynamics of the community.	X
PO.2.5.2.	<i>respects</i> patients, colleagues and all stakeholders in health care delivery.	Х
PO.2.5.3.	<i>displays</i> the proper behavior in case of disadvantaged groups and situations in the community.	Х
PO.3.3.2.	<i>displays</i> appropriate behavior specific to work under stressful conditions.	Χ

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION							
Activities	Quantity	Duration (Hour)	Total Workload (Hour)				
Course Duration (1.5 weeks)	7	6	42				

Hours for off-the-classroom study (Pre-study, practice, review/week)	20	1	20
Homework	-	-	-
Exam	1	3	3
Total Work Load	65		
Total Work Load / 30 (h)	2.17		
ECTS Credit of the Course			2