			C	OURSE INFORMA	TON		
	Course	e Title	Code	Semester	L+P Hour	Credits	ECTS
	Thorac Clerksł	ic Surgery (C nip)	linical MED 41	0 Phase 4/7-8	3 19+21	2	2*
			e university credit al Education Progr	s of the courses in am	Yeditepe Univers	sity, Faculty of	Medicine,
	Prerec	quisites	The student the courses of me	nat joins this cours dical faculty.	e, should comple	eted Phase 1, 2	2 and 3
Langua Instruc		English					
Course	Level	Second Cycle	e including First Cy	/cle Degree (One 1	ier Programme)		
Course	Туре	Compulsory					
Course Coordir	nator	Sina Ercan, I	MD. Prof.				
Instruc	tors	Head of the <u>Süreyyapaşı</u> S. Volkan Ba Serdar Evma Aysun Kosif		of.			ospital
Assista	nts	-					
Goals		 Equip sture recognize e chest wall, e Equip sture complete in 3. Equip sture organize initicenter when 	mergencies of maj esophagus and oth idents with necess itial workup to cont idents with necess tial treatment as w n needed,	ary knowledge, ski or airways, pulmor her frequent patholo ary knowledge, ski firm diagnosis, ary knowledge, ski ell as arranging qu ssary theoretical ar	ary vascular struc ogies, Is and attitudes re Is and attitudes re ck transfer to a ne	ctures, lungs, equired to equired to ext level health	1
Conten	t	For further	details please so	ee Academic Pro tes/default/files/p	gram Book of P	hase IV at	7.12.2021.p

Learning Outcomes	Programme	Teaching	Assessment
<i>At the end of this clerkship, student should be able to:</i>	Learning	Methods	Methods
	Outcomes	Fictious	

1.0. 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
2.0. Define necessary workup and invasive procedures	PO.1.1.7./PO		
in accordance with preliminary diagnosis	1.1.8.	1, 3, 4	А
3.1. Evaluate treatment options for patient according to	PO.1.1.9./PO		
preliminary diagnosis,	.1.1.11.	1, 3, 4	A
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	PO.1.1.3./PO		
pneumothorax, hemoptysis, or trauma	.1.1.6.	1, 3, 4	A
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. Derform Dhusiaal Eventiantian of a normal		, -,	
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	PO.1.1.5./PO		
airway	1.1.6.	1, 3, 4	A
10.0. Locate appropriate point of drainage on patient,	PO.1.1.5./PO		
according to chest x-ray findings	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	A
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

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14.0. Value providing appropriate transport conditions in accordance with regulations.	PO.1.1.2./PO .2.1.1.	1, 3, 4	А
	.2.1.1.	, ,	
15.0. Plan basic approach and treatment to traumatized	PO.1.1.3./PO		
patent.	.1.1.6./PO.1.		
	1.11./PO.1.2.		
	2./PO.1.3.1./	1, 3, 4,	A
	PO.3.3.2.		
	PU.3.3.2.		
16.0. Plan initial management and workup tests of			
patient presented with respiratory insufficiency	PO.1.1.7./PO.		
patient presented with respiratory insufficiency	1.1.8./PO.1.1.	1, 3, 4,	A
	9.		
17.0. Do preliminary diagnosis in thoracic pathologies	PO.1.1.7./PO.		
by going over differential diagnosis	1.1.8./PO.1.1.	1, 3, 4,	А
	9.		
18.0. Realize importance of providing necessary			
information to patient or patient's relatives	PO.1.2.1./PO.	1, 3, 4,	А
	1.2.4.	1, 5, 4,	~
19.0. Manage postoperative wound care and dressing			
19.0. Manage postoperative wound care and dressing	PO1.1.10./PO.		
	1.1.11.	3, 4,	A
20.1. Do followup postoperative patients according to	PO.1.1.9./PO.		
vital parameters, fluid and electrolyte balance, and	1.1.10./PO.1. 1.11./PO.1.1.	1, 3, 4,	А
surgical drain outputs,	1.11./PO.1.1. 12.		
20.2. Interpret correctly postoperative chest x-rays in	12.		
order to plan appropriate management	PO.1.1.9./PO.	1, 3, 4,	А
	1.1.10.	1, 5, 4,	~
24.0. Defer notions to further health and a sectors of			
21.0. Refer patient to further health care centers upon indication	PO.1.1.11./PO		
	.1.2.2./PO.1.4	1	A
	.1.		

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

Week	Topics	Study Materials
1	Introductory Session and Lecture (Welcome & Acquaintance "Introduction to Thoracic Surgery and its history)	Materials for the course provided by instructor
1	Lecture Surgical Pathologies of Trachea and Their Treatment	Materials for the course provided by instructor
1	Lecture Esophageal Diseases and Surgical Treatment	Materials for the course provided by instructor
1	Case Presentation (Faculty)	Materials for the course provided by instructor

1 Lecture Topographical Anatomy of the Thorax and Thoracic Incision	Materials for the course provided by instructor
1 Lecture Preoperative Evaluation and Diagnostic Procedures in Thoracic Surgery	Materials for the course provided by instructor
1 Lecture Tracheobronchial & Esophageal Foreign Bodies	Materials for the course provided by instructor
1 Lecture Interventional Procedures in Thoracic Surgery	Materials for the course provided by instructor
1 Clinical Experience Inpatient	Materials for the course provided by instructor
1 Case Presentation (Faculty) Pneumothorax Radiology	Materials for the course provided by instructor
1 Case Presentation (Faculty)	Materials for the course provided by instructor
¹ Lecture Radiological Evaluation in Thoracic Surgery	Materials for the course provided by instructor
1 Lecture Hemoptysis	Materials for the course provided by instructor
¹ Lecture Mediastinal Diseases and Surgical Treatment	Materials for the course provided by instructor
¹ Clinical Skills Training Performing Needle Thoracentesis on a Mannequin with a Tension Pneumothorax	Materials for the course provided by instructor
¹ Clinical Skills Training Assessment Session	Materials for the course provided by instructor
¹ Clinical Experience Surgical	Materials for the course provided by instructor
¹ Lecture Spontaneous Pneumothorax and Bullous Disorders	Materials for the course provided by instructor
¹ Lecture Thoracic Trauma I	Materials for the course provided by instructor
¹ Lecture Thoracic Trauma II	Materials for the course provided by instructor
1 Clinical Experience Inpatient	Materials for the course provided by instructor
1 Case Presentation (Faculty)	Materials for the course provided by instructor
1 Lecture Lung Cancers and Other Tumors of Lung	Materials for the course provided by instructor
1 Lecture Minimal Invasive Surgical Approaches in Thoracic Disease	Materials for the course provided by instructor
1 Lecture Benign Lung Diseases & Hydatic Cyst of the Lung	Materials for the course provided by instructor
¹ Clinical Experience Surgical Intensive Care Unit	Materials for the course provided by instructor
¹ Clinical Experience Surgical Operating Room	Materials for the course provided by instructor
1 Lecture Surgical Treatment of the Pathologies of Pleural Spaces	Materials for the course provided by instructor
1 Lecture Chest Wall Diseases and Surgical Treatment	Materials for the course provided by instructor
1 Lecture Diaphragmatical Diseases and Surgical Treatment	Materials for the course provided by instructor

1	Clinical Experience Surgical	Materials for the course provided by instructor
1	Clinical Experience Surgical Tube Thoracostomy	Materials for the course provided by instructor
1	Clinical Experience Surgical	Materials for the course provided by instructor
1	Clinical Experience Surgical Bronchoscopy	Materials for the course provided by instructor
1	Written Exam	Materials for the course provided by instructor
1	Oral Exam	Materials for the course provided by instructor
1	Program Evaluation Session Review of the Exam Questions, Evaluation of the Clerkship Program	Materials for the course provided by instructor

NCC 2014 – Essential Medical Procedures (National Core Curriculum)	Performance Level
Respiratory system examination	3
Reading and evaluating direct radiographs	4
Performing pleural puncture	3
Evaluating pulmonary function tests	3

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

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%

	MATERIAL SHARING
Documents	Photocopy shareable.
Assignments	Not Shareable
Exams	Not shareable

COURSE CATEGORY Expertise,	Field Courses
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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.	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.					Х

PO.1.1.2.	employs a patient-centered approach in patient				
P0.1.1.2.	management.			Х	
PO.1.1.3.	recognizes most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions.			X	
PO.1.1.4.	takes medical history from the applicant himself/herself or from the individual's companions.			X	
PO.1.1.5.	does 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.		X		
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.			X	
PO.1.1.9.	<i>makes</i> clinical decisions using evidence-based systematic data in health care service.			X	
PO.1.1.10.	<i>performs</i> medical interventional procedures that are used frequently at the primary health care level.			X	
PO.1.1.11.	<i>manages</i> healthy individuals and patients in the context of health care services.		x		
PO.1.1.12.	<i>keeps</i> medical records in health care provision and <i>uses</i> information systems to that aim.	x			
	POD.1.2. Competencies related to Communication				
PO.1.2.1.	throughout his/her career, <i>communicates</i> effectively with health care beneficiaries, co-workers, accompanying persons, visitors, patient's relatives, care			x	
	givers, colleagues, other individuals, organizations and institutions.				
PO.1.2.2.	<i>collaborates</i> 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.	<i>recognizes</i> 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.			X	
	POD.1.3. Competencies Related to Leadership and Management				
PO.1.3.1.	<i>manages</i> and <i>leads</i> 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.				
PO.1.3.3.	recognizes the resources in the health care service, the principles for cost-effective use.				
	POD.1.4. Competencies related to Health Advocacy				
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. POD.1.5. Competencies related to Research				
PO.1.5.1.	develops, prepares and presents research projects				
	POD.1.6. Competencies related to Health Education and Counseling				

PO.1.6.1.	provides consultancy services and organizes health				
PU.1.0.1.					
	education for the community to sustain and promote the				
	health of individual and community.				
	PODG.2. Professional Values and Perspectives				
	POD.2.1. Competencies related to Law and				
	Legal Regulations				
PO.2.1.1.					
P0.2.1.1.	performs medical practices in accordance with the legal				
	framework which regulates the primary health care				
	service.				
	POD.2.2. Competencies Related to Ethical				
	Aspects of Medicine				
PO.2.2.1.	recognizes basic ethical principles completely, and				
FU.2.2.1.			X		
	distinguishes ethical and legal problems.		 		
PO.2.2.2.	pays importance to the rights of patient, patient's		X		
	relatives and physicians, and <i>provides</i> services in this				
	context.				
	POD.2.3. Competencies Related to Social				
	and Behavioral Sciences				
DO 3 3 4					
PO.2.3.1.	relates historical, anthropological and philosophical				
	evolution of medicine, with the current medical practice.				
PO.2.3.2.	<i>recognizes</i> the individual's behavior and attitudes and		х		
	factors that determine the social dynamics of the				
	community.				
	POD.2.4. Competencies Related to Social				
	Awareness and Participation				
PO.2.4.1.	<i>leads</i> 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, <i>develops</i> projects directed towards health				
	care services.				
	POD.2.5. Competencies Related to				
	POD.2.5. Competencies Related to Professional Attitudes and Behaviors				
PO.2.5.1.	POD.2.5. Competencies Related to Professional Attitudes and Behaviors displays a patient-centered and holistic				
PO.2.5.1.	POD.2.5. Competencies Related to Professional Attitudes and Behaviors				
PO.2.5.1.	POD.2.5. Competencies Related to Professional Attitudes and Behaviors displays a patient-centered and holistic				
	POD.2.5. Competencies Related to Professional Attitudes and Behaviors displays a patient-centered and holistic (biopsychosocial) approach to patients and their problems.			v	
PO.2.5.1. PO.2.5.2.	POD.2.5. Competencies Related to Professional Attitudes and Behaviors displays a patient-centered and holistic (biopsychosocial) approach to patients and their problems. respects patients, colleagues and all stakeholders in			x	
PO.2.5.2.	POD.2.5. Competencies Related to Professional Attitudes and Behaviors displays a patient-centered and holistic (biopsychosocial) approach to patients and their problems. respects patients, colleagues and all stakeholders in health care delivery.				
	POD.2.5. Competencies Related to Professional Attitudes and Behaviors displays a patient-centered and holistic (biopsychosocial) approach to patients and their problems. respects patients, colleagues and all stakeholders in health care delivery. displays the proper behavior in case of disadvantaged			X	
PO.2.5.2. PO.2.5.3.	POD.2.5. Competencies Related toProfessional Attitudes and Behaviorsdisplays a patient-centered and holistic(biopsychosocial) approach to patients and their problems.respects patients, colleagues and all stakeholders in health care delivery.displays the proper behavior in case of disadvantaged groups and situations in the community.				
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PO.2.5.2. PO.2.5.3. PO.2.5.4.	POD.2.5. Competencies Related to Professional Attitudes and Behaviors displays a patient-centered and holistic (biopsychosocial) approach to patients and their problems. respects patients, colleagues and all stakeholders in health care delivery. displays the proper behavior in case of disadvantaged groups and situations in the community. takes responsibility for the development of patient safety and healthcare quality. evaluates own performance as open to criticism, realizes the qualifications and limitations.				
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PO.2.5.2. PO.2.5.3. PO.2.5.4. PO.2.5.5. PO.3.1.1. PO.3.1.2.	POD.2.5. Competencies Related toProfessional Attitudes and Behaviorsdisplays a patient-centered and holistic(biopsychosocial) approach to patients and theirproblems.respects patients, colleagues and all stakeholders inhealth care delivery.displays the proper behavior in case of disadvantagedgroups and situations in the community.takes responsibility for the development of patientsafety and healthcare quality.evaluates own performance as open to criticism,realizes the qualifications and limitations.PODG.3.1. Personal Development andValuesembraces the importance of lifelong self-learning andimplements.embraces the importance of updating knowledge andskills; searches current advancements and improvesown knowledge and skills.uses English language at least at a level adequate tofollow the international literature and to establishcommunication related to the profession.				
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	<i>plans</i> any requirement for further training and work experience.			
PO.3.2.3.	<i>prepares</i> a resume, and <i>recognizes</i> job interview methods.			
	POD.3.3. Competencies Related to Protection and Development of Own Physical and Mental Health			
PO.3.3.1.	<i>implements</i> the rules of healthy living.			
PO.3.3.2.	<i>displays</i> appropriate behavior specific to work under stressful conditions.		X	
PO.3.3.3.	uses self-motivation factors.			

ECTS ALLOCATED BASED ON STUDENT WORKLOAD	ву тне со	DURSE DES	SCRIPTION
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	I		65
Total Work Load / 30 (h))		2.17
ECTS Credit of the Course	•		2