

COURSE INFORMATION					
Course Title	<i>Code</i>	<i>Semester</i>	<i>Lecture+Practice+Labrotory Hour</i>	<i>Credits</i>	<i>ECTS</i>
Internal Medicine (Clinical Clerkship)	<i>MED</i> <i>411</i>	Phase 4/7-8	89+164	12	12*

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

Prerequisites	The student that joins this course, should completed Phase 1, 2 and 3 courses of medical faculty.
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Language of Instruction	English
Course Level	Second Cycle including First Cycle Degree (One Tier Programme)
Course Type	Compulsory
Course Coordinator	Özlem Haliloğlu
The instructors	Fahrettin Keleştemur Gülçin Kantarcı, Yaşar Küçükardalı, Cengiz Pata Meltem Ergün, Banu Salepçi Müge Bıçakçigil Kalaycı, Seha Akduman Bala Basak Öven Özlem Haliloğlu Mehmet Akif Öztürk Serkan Çelik Abdullah Özkök
Assistants	Zeynep Ipek Gezer , A.Yusuf Kavurmacı, Hatice Zeynep Ceylan, Batuhan Oğuz, Şenay Açikel, Hüseyin Alphan Şekuri, Lidya Aden Çağlar, Burcu Aslandere, Beyzanur Durak, Melis Ayça Burniku
Goals	Aim of this clerkship is to equip students with necessary knowledge, skills and attitudes required for an appropriate approach to healthy and sick adults, convey necessary knowledge on preventive healthcare measures. This clerkship also aimed to provide students with necessary knowledge, skills and attitudes required to achieve diagnosis and differential diagnosis of adults and to perform primary care prophylaxis and treatment,

Learning Outcomes <i>At the end of this clerkship, the student should be able to:</i>	Program Learning Outcomes	Teaching Methods	Assessment Methods
Knowledge			
Employs a patient-centered approach in patient management.	1.1.2.	1,2,3	A,B,C
Describe and explain the presentation, pathophysiology, clinical and laboratory features of common acute, chronic and emergency clinical conditions which pose high risk for individuals or community health, and list differential diagnoses of common disorders	1.1.3	1,2,3	A,B,C
List required procedures and investigations for the diagnosis and follow-up of patients	1.1.7.	1,2,3	A,B,C
Employs diagnostic procedures that are used frequently at the primary health care level. Selects tests that have evidence-based high efficacy at the primary health care level and interprets results	1.1.7, 1.1.8	1,2,3	A,B,C
Describe the management of common disorders	1.1.11	1,2,3	A,B,C
Skills			
Obtain an appropriate history of patients. Take detailed questioning intended to explicate reasons of complaints	1.1.2, 1.1.4	1,2,3	A,B,C
Perform proper physical examination	1.1.5	1,2,3	B,C
Use diagnostic methods (laboratory and imaging techniques, other invasive or non-invasive methods) correctly and cost-efficiently	1.1.7,1.1.8 , 1.1.9	1,2,3	A,B,C
Perform minor medical interventions and applications (blood collection, i.v. or i.m. injection, catheterization, capillary blood glucose testing, ECG, etc.)	1.1.7,1.1.8 , 1.1.9	2,3	C
Interpret clinical and laboratory data	1.1.7, 1.1.8	1,2,3	A,B,C
Refer patients to advanced healthcare units when indicated	1.2.2, 1.1.9	1,2,3	A,B,C
Manage common disorders and emergency cases	1.1.9, 1.1.11	1,2,3	A,B,C

Use written and online sources correctly and efficiently to access evidence-based information	3.1.1, 3.1.2	1,2,3	A,B,C
Attitudes			
Demonstrate interpersonal skills and professionalism in relations with patients, families and healthcare staff	1.2.2, 1.2.3,	2,3	C
Show respect for patient rights, communicate appropriately with patient and families and provide clear and concise information about the patient's condition	1.2.3, 1.2.4, 2.2.2, 2.5.2	2,3	C
Communicate and collaborate effectively with colleagues, teaching staff and other members of the healthcare team	1.2.1, 1.2.2	2,3	C

Teaching Methods:	1: Lecture, 2: Question-Answer, 3: Discussion
Assessment Methods:	A: Knowledge-based Assessment B: Competency-based Assessment C: Performance-based Assessment

COURSE CONTENT		
Week	Topics	Study Materials
1	Introductory Session (Introduction to Internal Medicine)	Materials for the course provided by the instructor
1	Lecture Taking History (2 hours)	Materials for the course provided by the instructor
1	Lecture Examination of the abdomen	Materials for the course provided by the instructor
1	Lecture Examination of Head and Neck	Materials for the course provided by the instructor
1	Lecture Examination of Respiratory System	Materials for the course provided by the instructor
1	Lecture Pulmonary Thromboembolism	Materials for the course provided by the instructor
1	Lecture Environmental Lung Diseases	Materials for the course provided by the instructor

1	Lecture Evidence Based Approach to Pneumonia (2 hours)	Materials for the course provided by the instructor
1	Lecture Examination Of Extremities (2 hours)	Materials for the course provided by the instructor
1	Lecture Approach to the Patient with Connective Tissue Diseases	Materials for the course provided by the instructor
1	Lecture Approach to Patient with Acute Arthritis (Mono-oligo and Polyarthritis)	Materials for the course provided by the instructor
1	Lecture Approach to Patient With Chronic Arthritis (2 hours)	Materials for the course provided by the instructor
1	Lecture Approach to Patient with Vasculitis	Materials for the course provided by the instructor
1	Case Discussion Rheumatology	Materials for the course provided by the instructor
1	Lecture Approach to Abdominal Pain	Materials for the course provided by the instructor
1	Lecture Approach To Patient with Diarrhea	Materials for the course provided by the instructor
1	Lecture Cushing's Syndrome	Materials for the course provided by the instructor
1	Lecture Male Gonadal Diseases	Materials for the course provided by the instructor
2	Lecture Acute Complications of Diabetes Mellitus	Materials for the course provided by the instructor
2	Lecture Chronic Complications of Diabetes Mellitus	Materials for the course provided by the instructor
2	Lecture Treatment of Diabetes Mellitus	Materials for the course provided by the instructor
2	Lecture Adrenal Insufficiency	Materials for the course provided by the instructor
2	Lecture Metabolic Bone Disease (2 hours)	Materials for the course provided by the instructor
2	Lecture Hyperparathyroidism	Materials for the course provided by the instructor
2	Lecture Metabolic Syndrome	Materials for the course provided by the instructor
2	Lecture Hyperthyroidism	Materials for the course provided by the instructor

2	Lecture Goiter and Thyroid Cancer	Materials for the course provided by the instructor
2	Lecture Hypothyroidism	Materials for the course provided by the instructor
2	Lecture Hypoparathyroidism	Materials for the course provided by the instructor
2	Lecture Management of Hyperlipidemia	Materials for the course provided by the instructor
2	Lecture Drug Interaction and Examples of Prescriptions (2 hours)	Materials for the course provided by the instructor
2	Case Discussion General Internal Medicine	Materials for the course provided by the instructor
2	Lecture Non-Cardiac Causes of Chest Pain (2 hours)	Materials for the course provided by the instructor
2	Lecture Acute Respiratory Distress Syndrome	Materials for the course provided by the instructor
2	Lecture Management of Elderly Patients	Materials for the course provided by the instructor
3	Lecture Fever Of Unknown Origin	Materials for the course provided by the instructor
3	Lecture Sepsis and Septic Shock	Materials for the course provided by the instructor
3	Lecture Tuberculosis	Materials for the course provided by the instructor
3	Case Discussion Chest Diseases	Materials for the course provided by the instructor
3	Lecture Nutritional Anemia and Interpretation of Peripheral Blood Smear (2 hours)	Materials for the course provided by the instructor
3	Lecture Acute and Chronic Leukemias (2 hours)	Materials for the course provided by the instructor
3	Lecture Bone Marrow Failure	Materials for the course provided by the instructor
3	Lecture Plasma Cell Dyscrasias	Materials for the course provided by the instructor
3	Lecture Diagnosis and Management of Hypercoagulopathy	Materials for the course provided by the instructor
3	Lecture Approach to the Patients with Lymphoproliferative Disorders Lymphomas	Materials for the course provided by the instructor

3	Lecture Evidence Based Approach to the Patient with Hypertensive Disorders	Materials for the course provided by the instructor
3	Lecture Hypertensive Disorders in Pregnancy	Materials for the course provided by the instructor
3	Lecture Evidence Based Approach to the Patient with Chronic Kidney Disease (2 hours)	Materials for the course provided by the instructor
3	Lecture Evidence-based Approach to the Patient with Acute Kidney Injury (2 hours)	Materials for the course provided by the instructor
3	Lecture Approach to the Patient with Electrolyte Disorders	Materials for the course provided by the instructor
3	Case Discussion Nephrology	Materials for the course provided by the instructor
4	Lecture Approach to the Patient with Acid-Base Disorders	Materials for the course provided by the instructor
4	Lecture Approach to the Patient with Glomerular Diseases	Materials for the course provided by the instructor
4	Lecture Ascites	Materials for the course provided by the instructor
4	Lecture Evidence Based Approach to the Patient Cirrhosis and Complications of Cirrhosis	Materials for the course provided by the instructor
4	Lecture Chronic Hepatitis	Materials for the course provided by the instructor
4	Case Discussion Gastroenterology	Materials for the course provided by the instructor
4	Lecture Liver Enzyme Disorder	Materials for the course provided by the instructor
4	Lecture Dysphagia	Materials for the course provided by the the instructor
4	Lecture Gastrointestinal Bleeding	Materials for the course provided by the instructor
4	Lecture Stem Cell Transplantation	Materials for the course provided by the instructor
4	Lecture Colorectal Cancer	Materials for the course provided by the instructor
4	Lecture Lung Cancer	Materials for the course provided by the instructor
4	Lecture Breast Cancer	Materials for the course provided by the instructor

4	Lecture Oncologic Emergencies	Materials for the course provided by the instructor
4	Lecture Management of Cancer Pain	Materials for the course provided by the instructor
4	Lecture Principles of Chemotherapy and Complications	Materials for the course provided by the instructor
4	Lecture Immunotherapy and targeted Therapies in Oncology	Materials for the course provided by the instructor
4	Lecture Hereditary Cancers and Genetic Counselling in Cancer; Basic Principles	Materials for the course provided by the instructor
5	Lecture Evidence Based Screening and Early Diagnosis in Oncology	Materials for the course provided by the instructor
5	Lecture Approach to the Patient with Pulmonary System Symptoms and Signs	Materials for the course provided by the instructor
5	Lecture Chronic Obstructive Lung Disease and Corpulmonale	Materials for the course provided by the instructor
5	Lecture Asthma	Materials for the course provided by the instructor
5	Case Discussion Hematology	Materials for the course provided by the instructor
5	Case Discussion Endocrinology	Materials for the course provided by the instructor
5	Case Discussion Oncology	Materials for the course provided by the instructor
5	Case Discussion Chest Diseases	Materials for the course provided by the instructor
6,7,8,9,10	HAYDARPAŞA NUMUNE TRAINING AND RESEARCH HOSPITAL (HTRH) –Clinical Training	

NCC 2014 – Essential Medical Procedures (National Core Curriculum)	Performance Level
General and symptom-based history taking	3
Assessing mental status	3
Antropometric measurements	4
Head-Neck and ENT examination	3
Abdominal physical examination	3

Skin examination	3
General condition and vital signs assessment	4
Musculoskeletal system examination	3
Respiratory system examination	3
Cardiovascular system examination	3
Urologic examination	2
Preparing medical reports and notice	2
Preparing forensic report	2
Preparing epicrisis	3
Preparing patient file	3
Obtaining informed consent	2
Writing prescription	2
Reading and evaluating direct radiographs	2
Taking and evaluating ECG	2
Measuring blood glucose level with glucometry	3
Filling laboratory request form	2
Preparation and evaluation of peripheral blood smear	2
Performing full urine analysis (including microscopic examination) and evaluation	2
Interpretation of screening and diagnostic examination results	2
Rational drug use	2
Performing IM, IV, SC, ID injection	2
Urinary catheterization	2
Taking sample for culture	3
Nasogastric catheterization	2
Evaluating pulmonary function tests	2
Establishing IV line	2
Measuring blood pressure	4
Performing and assessing pulse oxymetry	2
Providing basic life support	2
Using and evaluating peak-flow meter	2

RECOMMENDED SOURCES	
Textbook	<ol style="list-style-type: none"> 1. Harrison's Principles of Internal Medicine Edited by Dan L. Longo, Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, J. Larry Jameson 2. The Merck Manual of Diagnosis and Therapy. Edited by Porter RS, Kaplan JL 3. Current Opinion in Internal Medicine. Edited by: H David Humes 4. Cecil Medicine. Edited by Lee Goldman, MD and Andrew I. Schafer 5. Handbook of Nephrology & Hypertension Edited by Christopher S. Wilcox, C. Craig Tisher 6. Netter's Gastroenterology. Edited by M Floch <p>Yeditepe Üniversitesi Tıp Fakültesi İç Hastalıkları Semiyoloji Kitabı. Editör Prof Dr. Yaşar Küçükardalı</p>
Additional Resources	<p>INTERNET LINKS:</p> <ul style="list-style-type: none"> ■ www.uptodate.com, ■ http://bestpractice.bmj.com/best-practice/evidence ■ http://www.medicinenet.com/script/main/hp.asp ■ www.accessmedicine.com

ASSESSMENT		
Question Types (Pencil-Paper Tests)		Proportion (in Pencil-Paper Tests)
Multiple Choice Questions		36%
Extended Matching Questions		4%
Total		40%
Other Assessment Methods and Tools		Proportion
Structured Oral Exam (OE)		50%
Logbook & Direct Observation of Procedural Skills (DOPS)		10%
Evaluation of Case Presentation (With Checklist)		
Evaluation of Preparation Skills of Patient's File (With Checklist)		
Global Evaluation of Student's Performance (With Checklist)		
Total		60 %
Pass/Fail Decision		Proportion (in Pass/Fail Decision)
Pencil-Paper Tests		40%
Other Assessment Methods and Tools		60%
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.					X
PO.1.1.2.	employs a patient-centered approach in patient management.					X
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.	interprets findings in medical history, physical and mental examination.					X
PO.1.1.7.	employs diagnostic procedures that are used frequently at the primary health care level.				X	
PO.1.1.8.	selects tests that have evidence-based high efficacy at the primary health care level and interprets results.				X	
PO.1.1.9.	makes clinical decisions using evidence-based systematic data in health care service.					X
PO.1.1.10.	performs medical interventional procedures that are used frequently at the primary health care level.					X
PO.1.1.11.	manages healthy individuals and patients in the context of health care services.					X
PO.1.1.12.	keeps medical records in health care provision and uses information systems to that aim.					X
	POD.1.2. Competencies related to Communication					
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
	POD.1.3. Competencies Related to Leadership and Management					
PO.1.3.1.	manages and leads within the health care team in primary health care organization.					
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.			X		
	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.					
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 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.	performs medical practices in accordance with the legal framework which regulates the primary health care service.					X
	POD.2.2. Competencies Related to Ethical Aspects of Medicine					
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
	POD.2.3. Competencies Related to Social and Behavioral Sciences					
PO.2.3.1.	relates historical, anthropological and philosophical evolution of medicine, with the current medical practice.					
PO.2.3.2.	recognizes the individual's behavior and attitudes and factors that determine the social dynamics of the community.					
	POD.2.4. Competencies Related to Social Awareness and Participation					
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.					
	POD.2.5. Competencies Related to Professional Attitudes and Behaviors					
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.					
PO.2.5.4.	takes responsibility for the development of patient safety and healthcare quality.					
PO.2.5.5.	evaluates own performance as open to criticism, realizes the qualifications and limitations.					
	PODG.3. Professional Development and Self-Worth					

PODG.3.1. Personal Development and Values						
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.					
POD.3.2. Competencies Related to Career Management						
PO.3.2.1.	recognizes and investigates postgraduate work domains and job opportunities.					
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.					
PO.3.2.3.	prepares a resume, and recognizes job interview methods.					
POD.3.3. Competencies Related to Protection and Development of Own Physical and Mental Health						
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.					

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity/ day	Duration (Hour)	Total Workload (Hour)
Course Duration (10 weeks)	50	5	250
Hours for off-the-classroom study (Pre-study, practice, review/week)	45	2.5	112
Homework	-	-	-
Exam	2	2	4
Total Work Load			366
Total Work Load / 30 (h)			12.2
ECTS Credit of the Course			12