

COURSE INFORMATON					
Course Title	Code	Semester	Lecture+Practice+Labrotory Hour	Credits	ECTS
Radiation Oncology (Clinical Clerkship)	MED550	Phase 5 / 9-10	16	2	2*

* 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 have at least the Phase 3 knowledge level in medical faculty.
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Language of Instruction	English
Course Level	Second Cycle including First Cycle Degree (One Tier Programme)
Course Type	Area Elective
Course Coordinator	Naciye Işık, MD Prof.
Instructors	Naciye Işık MD Prof. Beyhan Ceylaner Bıçakçı MD. Assoc.Prof. Hüseyin Tepe tam MD Şule Gül Karabulut MD. Assoc.Prof. Duygu Gedik MD Hazan Özyurt Bayraktar MD. Assoc.Prof. Uğur Yılmaz MD. Assoc.Prof. Ayşe Sevgi Özden MD. Assoc.Prof. Ayfer Ay Eren MD. Assoc.Prof. Makbule Eren MD.
Assistants	
Goals	The course aims to convey necessary knowledge on pathology, clinics and treatment of oncological diseases and to equip with skills and attitudes required for an appropriate approach to management of oncology patients
Content	For further details please see Academic Program Book of Phase V at Introduction and Radiation Oncology Terminology Radiation Physics and Biology Radiation Treatment Procedure and Radiotherapy Methods Role of Radiation Therapy in Brain Tumors Role of Radiation Therapy in Gastrointestinal Cancers Role of Radiation Therapy in Head and Neck Cancers Role of Radiation Therapy in Lung Cancer Role of Radiation Therapy in Breast Cancer Role of Radiation Therapy in Urinary System Cancers Role of Radiation Therapy in Gynecologic Cancers Radiotherapy Side Effects Radiation Oncology Emergencies Student Group Study Clinical experience Assessment Session - Written Exam Review of the Exam Questions, Evaluation of the Program

Learning Outcomes	Programme Learning Outcomes	Teaching Methods	Assessment Methods
Explain the basic oncological terminology	3.1.1, 2.1.5	1,2,3	A
Describe the stages of common cancers	3.1.3,3.1.4	1,2,3	A
Describe the management of common cancers	1.1.6,1.1.7,1.1.8	1,2,3,12	A
List the steps of radiotherapy planning from treatment decision to radiation delivery	1.1.6,1.1.7,1.1.8	1,2,3,9,12	A
List the common site-specific and general side effects of radiotherapy	1.1.6,1.1.7,1.1.8	1,2,3,12	A
Explain the basic rationale of radiophysics	1.1.1	1,2,3	A
Explain the basic rationale of radiobiology	1.1.1	1,2,3	A
Identify the oncological emergencies	1.1.6,1.1.7,1.1.8	1,2,3,12	A
Obtain an appropriate history of patients and families as necessary	1.1.4,1.1.5	12	A
Perform proper physical examination in oncology patients considering special features related to diagnosis	1.1.9	12	A
Interpret laboratory, pathological and radiological data	3.1.3,3.1.4	1,2,3,12	A
Manage oncological emergency cases	1.1.6,1.1.7	1,2,3,12	A
Use written and online sources correctly and efficiently to access evidence-based information	3.1.1,3.2.3	3	A

Teaching Methods: 1: Lecture, 2: Question-Answer, 3: Discussion, 9: Simulation, 12: Case Study

Assessment Methods: A: Testing B: Presentation C: Homework

COURSE CONTENT		
Week	Subject	Study Materials
1 st day	Introductory Session Introduction and Radiation Oncology Terminology	Materials for the course provided by instructor
1	Lecture Radiation Physics and Biology	Materials for the course provided by instructor
1	Lecture Radiation Treatment Procedure and Radiotherapy Methods	Materials for the course provided by instructor
2	Lecture Role of Radiation Therapy in Gynecologic Cancers	Materials for the course provided by instructor
2	Lecture <i>Brain Tumors</i>	Materials for the course provided by instructor
2	Lecture Role of Radiation Therapy in Gastrointestinal Cancers	Materials for the course provided by instructor

3	Lecture Role of Radiation Therapy in Head and Neck Cancers	Materials for the course provided by instructor
3	Lecture Radiotherapy Side effects	Materials for the course provided by instructor
3	Lecture Role of Radiation Therapy in Urinary System Cancers	Materials for the course provided by instructor
4	Lecture Role of Radiation Therapy in Lung Cancer	Materials for the course provided by instructor
4	Lecture Role of Radiation Therapy in Breast Cancer	Materials for the course provided by instructor
4	Lecture Radiation Oncology Emergencies	Materials for the course provided by instructor
5	Assessment Session	
5	Program Evaluation Session Review of the Exam Questions, Evaluation of the Program	

RECOMMENDED SOURCES	
Textbook	<ul style="list-style-type: none"> Gunderson and Tepper's Clinical Radiation Oncology
Additional Resources	<ul style="list-style-type: none"> Lecture Notes https://econtour.org

MATERIAL SHARING	
Documents	Via Google classroom
Assignments	Powerpoint presentations
Exams	Not shared

ASSESSMENT	
Questions Types(Pencil-Paper Tests)	Proportion (inPass/FailDecision)
Multiple Choice Questions	100%
Total	100 %
OtherAssessment Methodsand Tools	Proportion (inOtherAssessment sMethodsandTools)
Total	-
Pass/ FailDecision	Proportion (inPass/FailDecision)

Pencil-PaperTests	100%
OtherAssessmentsMethodsandTools	-
Total	100 %

COURSE CATEGORY

Expertise/Field Courses

COURSES CONTRIBUTION TO PROGRAM					
COMPETENCE AREA-1 / Professional Practices	Contribution				
COMPETENCE 1.1. Health Service Provider	1	2	3	4	5
Competency 1.1.1. Integrates knowledge, skills, and attitudes acquired from basic and clinical medical sciences, behavioral sciences, and social sciences to provide health services.					X
Competency 1.1.2. 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.			X		
Competency 1.1.3. Prioritizes the protection and improvement of individuals' and community's health in the delivery of healthcare services.			X		
Competency 1.1.4. 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.			X		
Competency 1.1.5. 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.				X	
Competency 1.1.6. Demonstrates a safe, rational, and effective approach in the processes of protection, diagnosis, treatment, follow-up, and rehabilitation in health service delivery.					X
Competency 1.1.7. Performs interventional and/or non-interventional procedures safely and effectively for the patient in the processes of diagnosis, treatment, follow-up, and rehabilitation.					X
Competency 1.1.8. Provides healthcare services considering patient and employee health and safety.					X
Competency 1.1.9. 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.			X		
COMPETENCE AREA-2 / Professional Values and Approaches	Contribution				
COMPETENCE 2.1. Adopting Professional Ethics and Principles	1	2	3	4	5
Competency 2.1.1. Considers good medical practices while performing the profession.					X
Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession.			X		
Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity.			X		
Competency 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics.			X		
COMPETENCE 2.2. Health Advocate					
Competency 2.2.1. Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social			X		

responsibility in the protection and enhancement of community health.					
Competency 2.2.2. 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			
Competency 2.2.3. Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality.		X			
Competency 2.2.4. Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it.		X			
COMPETENCE 2.3. Leader-Manager					
Competency 2.3.1. Demonstrates exemplary behavior and leadership within the healthcare team during service delivery.		X			
Competency 2.3.2. 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			
COMPETENCE 2.4. Team Member					
Competency 2.4.1. Communicates effectively within the healthcare team and takes on different team roles as necessary.			X		
Competency 2.4.2. Displays appropriate behaviors while being aware of the duties and responsibilities of healthcare workers within the healthcare team.			X		
Competency 2.4.3. Works collaboratively and effectively with colleagues and other professional groups in professional practice.			X		
COMPETENCE 2.5. Communicator					
Competency 2.5.1. Communicates effectively with patients, their families, healthcare professionals, and other occupational groups, institutions and organizations.			X		
Competency 2.5.2. Communicates effectively with individuals and groups who require a special approach and have different sociocultural characteristics.			X		
Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes.			X		
COMPETENCE AREA-3 / Professional and Personal Development	Contribution				
COMPETENCE 3.1. Scientific and Analytical Approach	1	2	3	4	5
Competency 3.1.1. 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		
Competency 3.1.2. Accesses and critically evaluates current literature related to their profession.			X		
Competency 3.1.3. Applies evidence-based medicine principles in the clinical decision-making process.			X		
Competency 3.1.4. Uses information technologies to enhance the effectiveness of healthcare, research, and education activities.			X		
COMPETENCE 3.2. Lifelong Learner					
Competency 3.2.1. Manages effectively individual study processes and career development.			X		
Competency 3.2.2. Demonstrates skills in acquiring, evaluating, integrating new information with existing knowledge, applying to professional situations, and adapting to changing conditions throughout professional career.			X		
Competency 3.2.3. Selects the right learning resources to improve the quality of health care and organizes the learning process.			X		

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity /day	Duration (Hour)	Total Workload (Hour)
Course Duration (1 week)	5	4	20
Hours for off-the-classroom study (Pre-study, practice, review/week)	5	10	50
Homework	-	-	-
Exam	1	1	1
Total Work Load			71
Total Work Load / 30 (h)			2,37
ECTS Credit of the Course			2