

COURSE INFORMATION					
Course Title	Code	Semester	COURSE INFORMATION Lecture+Practice+Labrotory Hour	Credits	ECTS
Radiation Oncology	MED512	5/10-11 (1-week clerkship with rotation of 7 groups throughout the year)	17+15	-	3

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

<b>Prerequisites</b>	The student that joins this course, should have at least the Phase 3 knowledge level in medical faculty.
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<b>Language of Instruction</b>	English
<b>Course Level</b>	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
<b>Course Type</b>	Compulsory
<b>Course Coordinator</b>	Assoc. Prof. Gökhan Yaprak, MD
<b>Instructors</b>	Beyhan Ceylaner Bıçakcı, MD. Hüseyin Tepetam, MD Assoc. Prof. Şule Gül Karabulut, MD Duygu Gedik, MD. Hazan Özyurt Bayraktar MD Uğur Yılmaz MD Sevim Özdemir MD Assoc. Prof. Fatih Demircioğlu MD Assoc. Prof. Ayşe Sevgi Özden, MD Assoc. Prof. Naciye Işık, MD
<b>Assistants</b>	Dr. Melike Pekiürek Varan, MD
<b>Goals</b>	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
<b>Content</b>	For further details please see Academic Program Book of Phase V at <a href="http://med.yeditepe.edu.tr/sites/default/files/phase_5_0.pdf">http://med.yeditepe.edu.tr/sites/default/files/phase_5_0.pdf</a>  Introduction and Radiation Oncology Terminology Radiation Physics Radiotherapy Methods and Devices Radiation Biology Role of Radiation Therapy in Soft-Tissue Sarcomas Role of Radiation Therapy in Gastrointestinal Cancers Role of Radiation Therapy in Lymphomas 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  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	1.1.4	1,2,3	A
Describe the stages of common cancers	1.1.6, 1.1.8	1,2,3	A
Describe the management of common cancers	1.1.9, 1.1.11	1,2,3,12	A
List the steps of radiotherapy planning from treatment decision to radiation delivery	1.1.11	1,2,3,9,12	A
List the common site-specific and general side effects of radiotherapy	1.1.3	1,2,3,12	A
Explain the basic rationale of radiophysics	1.1.3	1,2,3	A
Explain the basic rationale of radiobiology	1.1.3	1,2,3	A
Identify the oncological emergencies	1.1.9, 1.1.11	1,2,3,12	A
Obtain an appropriate history of patients and families as necessary	1.1.2, 1.1.4	12	A
Perform proper physical examination in oncology patients considering special features related to diagnosis	1.1.5	12	A
Interpret laboratory, pathological and radiological data	1.1.7, 1.1.8	1,2,3,12	A
Manage oncological emergency cases	1.1.9, 1.1.1	1,2,3,12	A
Use written and online sources correctly and efficiently to access evidence-based information	3.1.1, 3.1.2, 3.1.3	3	A

<b>Teaching Methods:</b>	1: Lecture, 2: Question-Answer, 3: Discussion, 9: Simulation, 12: Case Study
<b>Assessment Methods:</b>	A: Testing B: Presentation C: Homework

COURSE CONTENT		
Week	Subject	Study Materials
1 <sup>st</sup> day	<b>Introductory Session</b> Introduction and Radiation Oncology Terminology	Materials for the course provided by instructor
1	<b>Lecture</b> Radiation Physics	Materials for the course provided by instructor

1	<b>Lecture</b> Radiotherapy Methods and Devices	Materials for the course provided by instructor
1	<b>Lecture</b> Radiation Biology	Materials for the course provided by instructor
1	<b>Lecture</b> Role of Radiation Therapy in Soft-Tissue Sarcomas	Materials for the course provided by instructor
1	<b>Lecture</b> Role of Radiation Therapy in Gastrointestinal Cancers	Materials for the course provided by instructor
1	<b>Lecture</b> Role of Radiation Therapy in Lymphomas	Materials for the course provided by instructor
1	<b>Lecture</b> Role of Radiation Therapy in Head and Neck Cancers	Materials for the course provided by instructor
1	<b>Lecture</b> Role of Radiation Therapy in Lung Cancer	Materials for the course provided by instructor
1	<b>Lecture</b> Role of Radiation Therapy in Breast Cancer	Materials for the course provided by instructor
1	<b>Lecture</b> Role of Radiation Therapy in Urinary System Cancers	Materials for the course provided by instructor
1	<b>Lecture</b> Role of Radiation Therapy in Gynecologic Cancers	Materials for the course provided by instructor
1	<b>Lecture</b> Radiotherapy Side effects	Materials for the course provided by instructor
1	<b>Assessment Session</b>	
1	<b>Program Evaluation Session</b> Review of the Exam Questions, Evaluation of the Program	

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

<b>MATERIAL SHARING</b>	
<b>Documents</b>	Via Google classroom
<b>Assignments</b>	Powerpoint presentations
<b>Exams</b>	Not shared

<b>ASSESSMENT</b>	
<b>Questions Types(Pencil-Paper Tests)</b>	<b>Proportion (inPass/FailDesicion)</b>
Multiple Choice Questions	100%
<b>Total</b>	<b>100 %</b>
<b>OtherAssessment Methodsand Tools</b>	<b>Proportion (inOtherAssessment sMethodsandTools)</b>
<b>Total</b>	<b>-</b>
<b>Pass/FailDecision</b>	<b>Proportion (inPass/FailDecision )</b>
Pencil-PaperTests	100%
OtherAssessmentsMethodsandTools	-
<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
<b>1.</b>	<b>Basic Professional Competencies</b>					
1.1.	Clinical Competencies					x
1.2.	Competencies Related to Communication			x		
1.3.	Competencies Related to Leadership and Management				x	
1.4.	Competencies Related to Health Advocacy			x		
1.5.	Competencies Related to Research				x	
1.6.	Competencies Related to Health Education and Counseling				x	
<b>2.</b>	<b>Professional Values and Perspectives</b>					
2.1.	Competencies Related to Law and Legal Regulations			x		
2.2.	Competencies Related to Ethical Aspects of Medicine				x	
2.3.	Competencies Related to Social and Behavioral Sciences				x	
2.4.	Competencies Related to Social Awareness and Participation				x	

2.5.	Competencies Related to Professional Attitudes and Behaviors									x
<b>3.</b>	<b>Personal Development and Values</b>									
3.1	Competencies Related to Lifelong Learning									x
3.2.	Competencies Related to Career Management									x
3.3.	Competencies Related to Protection and Development of Own Physical and Mental Health									x

<b>ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION</b>			
Activities	Quantity day	Duration (Hour)	Total Workload (Hour)
Course Duration (1 week)	4	8	32
Hours for off-the-classroom study (Pre-study, practice, review/week)	4	8	32
Homework	-	-	-
Exam	1	3	3
<b>Total Work Load</b>			69
<b>Total Work Load / 25 (h)</b>			2.76
<b>ECTS Credit of the Course</b>			3