



**MUĞLA SITKI KOÇMAN UNIVERSITY FACULTY of MEDICINE
PHASE V
ENGLISH MEDICINE PROGRAM**

**COURSE of RADIOLOGY
2022/2023 Academic Year
COURSE GUIDEBOOK**

**Course Code: MED 5010
Course Topic Code: MED5-RAD**

***This guide has been prepared by the Department of RADIOLOGY Course Purpose, Target, Outcomes, Training and Education Contents, Methods, Educational Activities, Measurement and Evaluation Techniques, Course Logbook, Program Qualifications Matrix, Matching the Courses with NCEP 2020, Matching the Courses with the Course Objectives and Outcomes, Matching the Course Achievements with Measurement Techniques, Course Notification Form, Vertical/Horizontal Integration Status of Courses and Course Schedules were declared on 15.06.2022.**

PREFACE

Dear Students,

Welcome to the RADIOLOGY course which is an important part of your education.

In this course program, which is going to continue for 2 weeks, we aim to give the basic education of the course program in all aspects of theoretical courses and practical applications. This guide describes what you will learn and perform during your course, the rules you must follow in our clinic, and the working conditions. We wish you all success with the belief that this guide will guide you sufficiently through your course studies.

Department of RADIOLOGY

GENERAL INFORMATION on COURSE

Course Title	: Radiology
Main Department of Course	: Internal
Department Responsible for Course	: Radiology
Course Code	: 5010
Course Type	: Required
Duration of the Course	: 2 weeks
Teaching Method of the Course	: Formal
ECTS	: 3
Language	: English
Head of the department	: Prof. Dr. Neşat ÇULLU
 Teaching Staff	 :

Teaching Staff	Subject area	Theoretical Course duration (Hours)
Prof. Dr. Neşat Çullu	Radiology	16
Doç. Dr. Funda Dinç	Radiology	8
Dr. Öğr. Üyesi R. Mihriban Kılınc	Radiology	16
Dr. Öğr. Üyesi Bünyamin Güney	Radiology	8
Dr. Öğr. Üyesi Dr İ. Önder Yeniçeri	Radiology	16
Dr. Öğr. Üyesi Dr Emrah Doğan	Radiology	8

Coordinator of the Department Education Program	: Prof Dr Neşat Çullu
Coordinator of the Course Education Program	: Doç Dr Funda Dinç
Coordinator of the Course Examinations	: Dr Öğr Üyesi R. Mihriban Kılınc
Coordinator of Course Assessment and Evaluation	: Dr Öğr Üyesi İ. Önder Yeniçeri

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TEACHING METHODS-TECHNIQUES

1. Theoretical lessons
2. Learning Centered Teaching
 - a. Case-based discussion sessions
 - b. Student case reports,
 - c. Practical application at the bedside
 - d. Practical application at the bedside in the outpatient clinic
3. Interactive teaching

PHYSICAL SPACES

Teaching Activity	Physical Space	Explanation
Theoretical lessons	Morphology building	
Inpatient bedside practice		
Policlinic	Hospital building	MEAH 2nd Floor, Education room
Case analysis	Hospital building	MEAH 2nd Floor, Education room
Problem-based teaching		
Special audit applications		
Private field applications		

RELATED LEGISLATION

<http://www.tip.mu.edu.tr/tr/ilgili-mevzuat-6641>

AIM(S) of the COURSE

1	In this course, it is aimed that the students learn the radiological imaging methods used in the diagnosis and treatment of diseases, the interventional radiological procedures, and the basic principles of radiological evaluation. within the scope of the National CEP.
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OBJECTIVE(S) of the COURSE

1	To be able to recognize radiological imaging modalities / to be able to distinguish by which methods radiological examinations are performed, to be able to explain the physics basis of imaging modalities.
2	To be able to explain the radiological diagnosis modalities and algorithms specific to the diseases.
3	To be able to detect normal and pathological findings in radiological diagnostic methods.
4	To be able to reach a conclusion by evaluating the findings together with clinical medical history and laboratory and the detected radiological pathological findings.
5	To be able to recognize interventional radiological procedures and explain their place in the diagnosis algorithm.
6	To be able to read chest X-ray, standing direct abdominal X-ray and direct urinary system X-ray in accordance with the technique.
7	To be able to read musculoskeletal system direct radiographs in accordance with the technique.
8	To be able to explain where, when and in which situations radiological modalities are to be used.

INTENDED LEARNING OUTCOME(S)

1	Can recognize radiological imaging modalities / can distinguish by which methods radiological examinations are performed, can explain the physics basis of imaging modalities.
2	Can explain the radiological diagnosis modalities and algorithms specific to the diseases.
3	Can detect normal and pathological findings in radiological diagnostic methods.
4	Can reach a conclusion by evaluating the findings together with clinical medical history and laboratory and the detected radiological pathological findings.
5	Can recognize interventional radiological procedures and explain their place in the diagnosis algorithm.
6	Can read chest X-ray, standing direct abdominal X-ray and direct urinary system X-ray in accordance with the technique.
7	Can read musculoskeletal system direct radiographs in accordance with the technique.
8	Can explain where, when and in which situations radiological modalities are to be used.

DUTIES AND RESPONSIBILITIES OF STUDENTS

Duration of course is 2 weeks.

In addition to the theoretical courses, “patient practice” courses are carried out during the course.

Students are responsible for completing the course log book for each application during the course.

During the course program (if no change is notified by the relevant faculty member during the course period), students are expected to fully present for theoretical or practical application. According to the regulation, there is an attendance requirement of 70% in theoretical courses and 80% in applied courses in Phase V.

RECOMMENDED RESOURCE(S)

KEY RESOURCE(S)

KEY RESOURCE(S)	Matched Course Outcome(s)
1. Klinik Radyoloji, Ercan Tuncel	1,2,3,4,5,6,7,8
2. Temel Radyoloji, İbrahim Tanzer Sancak	1,2,3,4,5,6,7,8

ADDITIONAL RESOURCE(S)

ADDITIONAL RESOURCE(S)	Matched Course Outcome(s)
1. Klinik Radyoloji, Ercan Tuncel	1,2,3,4,5,6,7,8
2. Temel Radyoloji, İbrahim Tanzer Sancak	1,2,3,4,5,6,7,8

ASSESSMENT and EVALUATION

Assessment and Evaluation in the End of Course Evaluation Exam

Assessment and Evaluation Method	Explanation	Role in the End of Course Evaluation	% Value for the End of Course Evaluation
Attendance to Classes		Compulsory	
Course Logbook		Compulsory	
Multiple Choice Theoretical Test Exam*	Multiple choice questions		50
Bedside Clinical Practice Exam**			
Structured Oral Examination***	Under the supervision of at least two faculty members		50
Total			100

Availability of Course Logbook, Place of Course Report in Course Assessment and Evaluation Principles

For the right to take the written exam, the student must be evaluated as “adequate” from the criteria specified in the course report.

Existence of Attendance Requirement and Its Place in Course Assessment-Evaluation Principles

It is stated at the beginning of the course that the student who is absent from the courses will not be taken to the written exam.

The Effect of the Assessment and Evaluation Methods to be Applied on the Success Status at the End of the Course

In order to be successful in the course, it is required to get at least 60 points at each stage of the course exams. A student whose score is 59 and below in an assessment-evaluation technique is not allowed to participate in the other exam phase.

1st stage: Multiple Choice Theoretical Test Exam

2nd stage: Structured Oral Examination

Assessment and Evaluation in Resit Examination

Assessment and Evaluation Method	Explanation	Role in the End of Course Evaluation	% Value at the End of Course Evaluation
Multiple Choice Theoretical Test Exam*	Multiple choice questions		50
Structured Oral Examination**	Under the supervision of at least two faculty members		50
Total			%100

Assessment and Evaluation in Single Course Resit Exam
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Assessment and Evaluation Method	Explanation	Role in the End of Course Evaluation	% Value at the End of Course Evaluation
Multiple Choice Theoretical Test Exam*	Multiple choice questions		50
Structured Oral Examination**	Under the supervision of at least two faculty members		50
Total			%100

COURSE LOGBOOK

STUDENT'S NAME AND SURNAME :

STUDENT'S SCHOOL NO :

COURSE PERIOD :

APPLICATION	NCEP Clause	TEACHING STAFF (SIGNATURE)
DATE		
1.PA chest radiography evaluation	D4	Dr Neşat Çullu, Dr Emrah Doğan
2.Evaluation of standing abdominal X-ray	16,30,77	Dr R Mihriban Kılınç
3.DUSG assessment	1,43,48,49,50,217,244,	Dr R Mihriban Kılınç
4.Evaluation of musculoskeletal radiography	D4	Dr Bünyamin Güney
5.Brain CT evaluation	D4	Dr İ Önder Yeniçeri
6.Mammography evaluation	213	Dr Funda Dinç
DECISION: PASS FAIL		
Head of Department or Coordinator:		
Date:		
Signature:		

Faculty of Medicine
English Medicine Program
Phase V
RADIOLOGY COURSE
Competence Matrix

The Name of the Course	Po1	Po2	Po3	Po4	Po5	Po6	Po7	Po8	Po9	Po10	Po11	Po12	Po13
Radiology	0	5	5	5	5	5	5	5	0	0	0	5	0

* Completed according to the following program outcomes. (Score from 0 to 5.)

PO: Program Outcomes of Faculty of Medicine

PO Link: <https://muweb.mu.edu.tr/tr/program-yeterlilikleri-6598?site=tip.mu.edu.tr>

TRAINING ACTIVITY AND ASSESMENT AND EVALUATION METHODS MATCHING OF COURSE GAINS

Intended Learning Outcome	TRAINING ACTIVITY MATCHING	ASSESSMENT AND EVALUATION METHODS MATCHING
1.Can recognize radiological imaging modalities / can distinguish by which methods radiological examinations are performed, can explain the physics basis of imaging modalities.	T, R	T, P
2.Can explain the radiological diagnosis modalities and algorithms specific to the diseases.	T, R	T, P
3.Can detect normal and pathological findings in radiological diagnostic methods.	T, R	T, P
4.Can reach a conclusion by evaluating the findings together with clinical medical history and laboratory and the detected radiological pathological findings.	T, R	T, P
5.Can recognize interventional radiological procedures and explain their place in the diagnosis algorithm.	T, R	T, P
6.Can read chest X-ray, standing direct abdominal X-ray and direct urinary system X-ray in accordance with the technique.	T, R	T, P
7.Can read musculoskeletal system direct radiographs in accordance with the technique.	T, R	T, P
8.Can explain where, when and in which situations radiological modalities are to be used.	T, R	T, P
<p>Abbreviations Teaching Activity: Theoretical lessons (T), Visit (V), Case report (CR), Clinical picture discussion- Outpatient clinic (C), Vocational skills lab (VSL), Radiological evaluation (R), Laboratory evaluation (L), Presentation (Pr) Assessment Method: Practical - Logbook (P-L), Oral exam (OE), Theoretical exam (TE)</p>		

INFORMATION AND MATCHING TABLE ON THE THEORETICAL AND PRACTICAL COURSES IN THE COURSE TO BE INCLUDED IN THE 2022- 2023 ACADEMIC YEAR COURSE PROGRAM

Lecture Code*	Hour	Lecture Type	Lecture Subject	Course Aim Matching	Course Learning Outcome Matching	Activity Matching**	Assessment and Evaluation Method matching **	Vertical Integration	Horizontal Integration
ME D5-RAD 001		T	Radiology definition, radiological imaging methods	1	1, 2, 3, 4,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD 002		T	Circulatory system radiology	1	1, 2, 3, 4,6,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD 003		T	Endocrine system radiology	1	1, 2, 3, 4,6,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD 004		T	Digestive system radiology	1	1, 2, 3, 4,6,,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD 005		T	Genitourinary system radiology	1	1, 2, 3, 4,6,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD 006		T	Musculoskeletal radiology	1	1, 2, 3, 4,7,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD		T	Nervous system radiology	1	1, 2, 3,	T, R	T, P	Term 3 courses and term 6	Course in internal and

007					4,6,8			courses	surgical sciences
ME D5-RAD 008		T	Head and neck radiology	1	1, 2, 3, 4,6,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD 009		T	Interventional radiology applications	1	1, 2, 3, 4,5,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD 010		T	Breast radiology	1	1, 2, 3, 4,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD 011		T	Respiratory system radiology	1	1, 2, 3, 4,6,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD 012		P	Evaluation of chest X-ray	1	1, 2, 3, 4,6,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD 013		P	Evaluation of abdominal X-ray	1	1, 2, 3, 4,6,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD 014		P	Evaluation of DUSG graphy	1	1, 2, 3, 4,6,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD 015		P	Evaluation of vertebra and paranasal radiographs	1	1, 2, 3, 4,6,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
ME D5-RAD		P	Mammography evaluation	1	1, 2, 3, 4,8	T, R	T, P	Term 3 courses and term 6	Course in internal and surgical

016								courses	sciences
ME D5- RAD 017		P	Evaluation of chest X-ray	1	1, 2, 3, 4,6,8	T, R	T, P	Term 3 courses and term 6 courses	Course in internal and surgical sciences
<p>EXPLANATIONS: * Lecture code will be formed by writing 001, 002,... at the end of the code taken from the "Codes for Phase 5 matrix" section. **Abbreviations Teaching Activity: Theoretical lessons (T), Visit (V), Case report (CR), Clinical picture discussion- Outpatient clinic (C), Vocational skills lab (VSL), Radiological evaluation (R), Laboratory evaluation (L), Presentation (Pr) Assessment Method: Practical - Logbook (P-L), Oral exam (OE), Theoretical exam (TE)</p>									