



**MUĞLA SITKI KOÇMAN UNIVERSITY FACULTY of MEDICINE
PHASE 6
ENGLISH MEDICINE PROGRAM**

**COURSE of RADIOLOGY
COURSE GUIDEBOOK**

PREFACE

Dear Students,

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

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 Medical Sciences
Department Responsible for Course	: Radiology
Course Code	: MED-6519
Course Topic Code	: MED-
Course Type	: Elective
Duration of the Course	: 1 month
Teaching Method of the Course	: Formal
ECTS	: 5
Language	: English

TEACHING METHODS-TECHNIQUES

a. Applied training methods

- ✓ Participation in outpatient services / Practical applications at the outpatient clinic
- ✓ Instructor visits (Story taking, file preparation and presentation, interactive discussion, monitoring)
- ✓ Medical record keeping and evaluation practices
- ✓ Participation in Branch Informatics Applications

b. Interactive learning activities:

- ✓ Meetings, panels, group discussions,
- ✓ Case-based discussion sessions, problem-based training sessions with small groups, critical situation discussions, councils, gamification, structured case discussions,
- ✓ Readings and interpretations of works/articles

c. Vocational Skills applications

- ✓ The minimum number of practices/studies required for reinforcing the proficiency gained in the previous education periods in the defined vocational skills is determined and it is ensured that each intern does it.

d. Teamwork

e. Independent learning

- ✓ Independent working hours

f. Other Educational Events

- ✓ Clinical Case Reports
- ✓ Article Presentations
- ✓ Seminar/Lesson Presentations
- ✓ Literature Presentations
- ✓ Research and Presentation

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

Please read: MSKU Medical Faculty Pre-Graduation Education Rules, Students' Responsibilities and Duties (MSKÜ Tıp Fakültesi Mezuniyet Öncesi Eğitiminde Öğrencilerin Uyması Gereken Kurallar, Öğrencilerin Sorumlulukları ve Görevleri)

Web Site: <https://tip.mu.edu.tr/tr/ilgili-mevzuat-6641>

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

Phase 6 Student Internship Success Criteria: (All criteria must be met)

1. The student must fulfill the internship continuity criteria.
2. Candidate Physician Qualification Certificate scoring of 60 and above is considered successful.
3. Candidate Physician Logbook scoring of 60 and above is considered successful.

Faculty of Medicine
English Medicine Program
Phase 6
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>

CANDIDATE PHYSICIAN QUALIFICATION CERTIFICATE

MUGLA SITKI KOCMAN UNIVERSITY MEDICAL SCHOOL RADIOLOGY INTERNSHIP CANDIDATE PHYSICIAN QUALIFICATION CERTIFICATE		
Student's name and surname: Number:		Beginning:/...../..... End: .../..../.....
A	Participation in Internship Training Programs (25 points) <ul style="list-style-type: none"> ✓ Seminar, article, case report etc. ✓ Report-Homework Preparation etc. ✓ Research etc. 	
B*	Internship Logbook Score (50 points) * <ul style="list-style-type: none"> ✓ Fulfilling the applications specified in the internship logbook in the desired number and level etc. 	
C	Fulfilling Intern Physician Work Responsibilities: (25 points) <ul style="list-style-type: none"> ✓ Learning the seizure system, taking over, and transferring patients, obeying the hours ✓ Service Activities ✓ Polyclinic Activities ✓ Fulfillment of assigned tasks ✓ Adaptation and Participation in Teamwork ✓ Communication with patients and their relatives ✓ Compliance with working hours etc. 	
CONTINUITY:		Continuous (....) Discontinuous (.....)
RESULT:		Successful (....) Unsuccessful (.....)
EVALUATION SCORE: (With numbers and text) Score: (out of 100)	INTERNSHIP COORDINATOR ACADEMIC STAFF: Date: Signature:	HEAD OF DEPARTMENT Date: Signature:
Phase 6 Student Internship Success Criteria: (All criteria must be met) <ol style="list-style-type: none"> 4. The student must fulfill the internship continuity criteria. 5. Candidate Physician Qualification Certificate scoring of 60 and above is considered successful. 6. Candidate Physician Logbook scoring of 60 and above is considered successful. 		
* Half of the Candidate Physician Internship Logbook Score must be reflected in the B field.		

CANDIDATE PHYSICIAN INTERNSHIP LOGBOOK

MUGLA SITKI KOCMAN UNIVERSITY MEDICAL SCHOOL RADIOLOGY CANDIDATE PHYSICIAN INTERNSHIP LOGBOOK			
Student's name and surname:		Number:	
Beginning:/...../.....		End:/...../.....	Level
			Performed
1.	Patient file preparation	4	
2.	Taking general and problem-oriented history	4	
3.	Systematic physical examination	4	
4.	Evaluation of general condition and vital signs	4	
5.	Interpreting the results of screening and diagnostic examinations	3	
6.	Differential Diagnosis		
7.	Reading and evaluating direct radiographs	3	
8.	Requesting rational laboratory and imaging examination	4	
9.	Applying the principles of working with biological material	4	
10.	Obtaining a biological sample from the patient	3	
11.	Taking the laboratory sample under appropriate conditions and delivering it to the laboratory	4	
12.	Providing decontamination, disinfection, sterilization, antisepsis	4	
13.	Hand washing	4	
14.	Opening vascular access	4	
15.	IM, IV, SC, ID Injection	4	
16.	Preparing the drugs to be applied correctly	3	
17.	Administering oral, rectal, vaginal, and topical drugs	3	
18.	Applying the principles of rational drug use	4	
19.	Treatment planning and prescription	4	
20.	Preparing patient discharge report	4	
21.	Properly referring the patient	4	
22.	Providing sufficient and understandable information to the patient and his/her relatives about the disease	4	
23.	Providing accurate and adequate information to the patient and/or patient relatives about possible interventions/treatment options, obtaining consent for treatment	4	
24.	Communicating effectively with the work team, colleagues, and trainers	4	
25.	Internship-specific item*		
26.	Internship-specific item*		
27.	Internship-specific item*		
RESULT: Successful (....) Unsuccessful (.....)	EVALUATION SCORE: (With numbers and text) Score: (out of 100)	INTERNSHIP COORDINATOR ACADEMIC STAFF: Date: Signature:	HEAD OF DEPARTMENT Date: Signature:

Phase 6 Student Internship Success Criteria: (All criteria must be met)

1. The student must fulfill the internship continuity criteria.
2. Candidate Physician Qualification Certificate scoring of 60 and above is considered successful.
3. Candidate Physician Logbook scoring of 60 and above is considered successful.

***The Department can remove the item(s) from the Internship Logbook and/or add the item(s) specific to the internship by specifying the level to the Internship Logbook. It is recommended that the department check that all NCEP-2020 Basic Medicine Practices and levels related to the internship are stated in the Internship Logbook.**

LEARNING LEVEL OF BASIC MEDICAL PRACTICES*

Level	Explanation
1	Knows how the application is done and explains the results to the patient and / or their relatives
2	Makes the application in accordance with the guide / directive in an emergency
3	Makes the application* in uncomplicated, common, cases/cases
4	Makes the application** including complex situations/phenomenons
*Denotes the minimum level of performance, and therefore learning, that a physician who graduated from the faculty of medicine should exhibit during basic medicine practices. It is determined separately for each skill/application in the minimum level list. The faculties ensure that each student is able to perform the medical practice in question at the minimum level determined during the education period they apply.	
** Makes the preliminary evaluation/evaluation, creates, and implements the necessary plans, and informs the patient and their relatives/society about the process and its results.	
*Source: NCEP 2020	