Medical faculty, University in Mostar Radiology- English studies

2025/2026 L = 35 S = 16 P = 49

RADIOLOGY - PLAN AND PROGRAM

Head proffesor: Associate professor Vedran Markotić

Time table: RADIOLOGY

SUBJECT	FUNDAMENTALS OF	RADIOLOGY	TOTAL
	X RAY PHYSICS		
lectures	5 – 44%	30 - 27,0%	35 – 35,0%
seminars	0 – 0%	16 - 14,0%	16 – 16,0%
practicals	6 – 66%	43 - 59,0%	49 – 49,0%
total:	11 – 100%	89 - 100,0%	100 – 100%

TEACHING STAFF

Nastavnik	Academic title	L	ectures	Ser	ninars	Pra	acticals	1	otal
Associate professor Igor	Associate	11		2		6		19	
Borić	professor								
Assistant professor Vedran	Associate	5		6		49		60	
Markotić	professor								
Assistant professor Vilma	Assistant	6		2		6		14	
Kosović	professor								
Assistant professor Krešimir	Assistant	13		2		6		21	
Dolić	professor								
dr. sc. Antonela Krasić	Senior assistant			4		49		53	
Arapović, MD, PhD									
Dorijan Radančević, MD,	Assistant					49		49	
radiodiagnostic specialist									

Plan and program for the academic year 2025/2026

LECTURES - FUNDAMENTALS OF THE X RAY PHYSICS

MARK	LECTURES	NASTAVNIK	No
L1	X-ray tube structure, high-voltage and low-voltage generators, X-ray formation	Assistant professor Vedran Markotić	1
L2	Diagnostic X-ray devices	Assistant professor Vedran Markotić	1
L3	Special purpose X - ray devices	Assistant professor Vedran Markotić	1
L4	Newer imaging technologies	Assistant professor Vedran Markotić	2
L5	Radiation prevention and protection	Assistant professor Vedran Markotić	1

PRACTICALS - FUNDAMENTALS OF THE X RAY PHYSICS

MARK	PRACTICALS	NASTAVNIK	No
P I. 1.	X-ray tube structure, high-voltage and low-voltage generators, X-ray formation	Assistant professor Vedran Markotić	1
P I. 2.	Diagnostic X-ray devices	Assistant professor Vedran Markotić	1
P I. 3.	Special purpose X - ray devices	Assistant professor Vedran Markotić	1
P I. 4.	Newer imaging technologies	Assistant professor Vedran Markotić	2
P I. 5.	Radiation prevention and protection	Assistant professor Vedran Markotić	1

LECTURES - CLINICAL RADIOLOGY - L II.

MARK	LECTURES	PROFFESOR	N^0
L II. 1.	Central nervous system	Associate professor Igor	3
		Borić	
L II. 2.	Eye, ear, nasopharynx, larynx, paranasal cavities	Associate professor Igor	3
		Borić	
L II. 3.	Osteoarticular system and trauma of the osteoarticular	Associate professor Igor	4
	system	Borić	
L II. 4.	Thoracic organs (lungs, mediastinum)	Assistant professor Vilma	3
	- · · · · · · · · · · · · · · · · · · ·	Kosović	
L II. 5.	Heart and great vessels	Assistant professor	2

		Krešimir Dolić	
L II. 6.	Radiological diagnosis of breast disease	Assistant professor Vilma	2
		Kosović	
L II. 7.	Contrast agents in radiology	Assistant professor	1
		Krešimir Dolić	
L II. 8.	Gastrointestinal and hepatobiliary system	Assistant professor	3
		Krešimir Dolić	
L II. 9.	Urogenital system and adrenal glands	Assistant professor	3
		Krešimir Dolić	
L II. 10.	Vascular system radiology	Assistant professor	2
		Krešimir Dolić	
L II. 11.	Vessel dopler ultrasound	Assistant professor	2
	•	Krešimir Dolić	
L II. 12.	Interventional radiology	Associate professor Igor	1
		Borić	

SEMINARS - CLINICAL RADIOLOGY - S II.

MARK	SEMINARS	TEACHING PROFESSOR	GRoup	No
S II. 1.	Cardiovascular system	Assistant professor Vilma Kosović		2
S II. 2.	Respiratory system	Assistant professor Vilma Kosović		2
S II. 3.	Osteoarticular system	Associate professor Igor Borić		2
S II. 4.	Gastrointestinal system	Assistant professor Krešimir Dolić		2
S II. 5.	Interventional radiology as a minimally invasive therapy: advantages over surgical methods of treatment	dr. sc. Antonela Krasić Arapović, MD, PhD		2
S II. 6.	Central nervous system	Assistant professor Vedran Markotić		2
S II. 7.	Hepatobiliary system	Assistant professor Vedran Markotić		2
S II. 8.	Urogenital system	Assistant professor Vedran Markotić		2

PRACTICALS - CLINICAL RADIOLOGY - P II.

MARK	PRACTICALS	TEACHING PHYSICIAN	N^0
P II. 1.	Central nervous system	dr Dorijan Radančević	5
P II. 2.	Eye, ear, nasopharynx, larynx, paranasal cavities	dr Dorijan Radančević	5
P II. 3.	Osteoarticular system and trauma of the osteoarticular system	Assistant professor Vedran Markotić	5
P II. 4.	Thoracic organs (lungs, mediastinum)	dr. sc. Antonela Krasić Arapović, MD, PhD	5
P II. 5.	Heart and great vessels	dr. sc. Antonela Krasić Arapović, MD, PhD	5
P II. 6.	Radiological diagnosis of breast disease	dr. sc. Antonela Krasić Arapović, MD, PhD	3
P II. 7.	Contrast agents in radiology	Assistant professor Vedran Markotić	3
P II. 8.	Gastrointestinal and hepatobiliary system	dr Dorijan Radančević	3
P II. 9.	Urogenital system and adrenal glands	dr Dorijan Radančević	5
P II. 10.	Vascular system radiology	Assistant professor Vedran Markotić	3

LECTURES, FUNDAMENTALS OF THE X RAY PHYSICS FIZIKE L I.

Tuesday, 2, 12, 2025.

Tuesday, 2. 12.	2023.		
08,30 - 09,15	X-ray tube structure, high-voltage and low-	L I. 1.	Assistant professor Vedran
	voltage generators, X-ray formation		Markotić
09,15 - 10,00	X-ray tube structure, high-voltage and low-	L I. 1.	Assistant professor Vedran
	voltage generators, X-ray formation		Markotić
10,00 - 10,15	BREAK		
10,15 – 11,00	Diagnostic X-ray devices	L I. 2.	Assistant professor Vedran
			Markotić
11,00 - 11,45	Diagnostic X-ray devices	L I. 2.	Assistant professor Vedran
			Markotić
11,45 – 12,00	BREAK		
12,00 - 12.45	Special purpose X - ray devices	L I. 3.	Assistant professor Vedran
			Markotić
12,45-13,30	Special purpose X - ray devices	L I. 4.	Assistant professor Vedran
			Markotić

Wednesday, 3.12.2025.

wednesday, 3.	12.2025.		
08,30 - 09,15	Radiation prevention and protection	P I.	Assistant professor Vedran Markotić
09,15 – 10,00	Radiation prevention and protection	P I.	Assistant professor Vedran Markotić
10,00 - 10,15	BREAK		
10,15 – 11,00	New imaging technologies	P I.	Assistant professor Vedran Markotić
11,00 – 11,45	New imaging technologies	P I.	Assistant professor Vedran Markotić
11,45 - 12,00	BREAK		

12,00 - 12.45	New imaging technologies	P I.	Assistant professor Vedran
			Markotić
12.45 - 13.30	New imaging technologies	P I.	Assistant professor Vedran
			Markotić

LECTURES, CLINICAL RADIOLOGY- L II.

Thursday, 4.12.2025.

111u15uay, 4.12	.2023.		
08,30 - 09,15	Central nervous system	L II. 1.	Associate professor Igor Borić
09,15 – 10,00	Central nervous system	L II. 1.	Associate professor Igor Borić
10,00 - 10,15	BREAK		
10,15 – 11,00	Central nervous system	L II. 1.	Associate professor Igor Borić
11,00 – 11,45	Central nervous system	L II. 1.	Associate professor Igor Borić
11,45 – 12,00	BREAK		
12,00 – 12.45	Interventional radiology	L II. 2.	Associate professor Igor Borić
12.45 – 13.30	Interventional radiology	L II. 2.	Associate professor Igor Borić
13.30-14,15	Interventional radiology	L II. 2.	Associate professor Igor Borić

Friday, 5,12,2024.

Filliay, 5.12.202	24.		
08,30 - 09,15	Eye, ear, nasopharynx, larynx, paranasal cavities	L II. 3	Associate professor Igor Borić
09,15 – 10,00	Eye, ear, nasopharynx, larynx, paranasal cavities	L II. 3.	Associate professor Igor Borić
10,00 - 10,15	O BREAK	L	
10,15 – 11,00	Osteoarticular system and trauma of the osteoarticular system	L II. 3.	Associate professor Igor Borić
11,00 – 11,45	Osteoarticular system and trauma of the osteoarticular system	L II. 4.	Associate professor Igor Borić
11,45 - 12,00	BREAK		
12,00 – 12.45	Osteoarticular system and trauma of the osteoarticular system	L II. 4.	Associate professor Igor Borić
12,45-13,30	Osteoarticular system and trauma of the osteoarticular system	L II. 4	Associate professor Igor Borić
13,30-14,15	Seminar 1	S 1	Associate professor Igor Borić
14,15—15,00	Seminar 1	S 1	Associate professor Igor Borić

Monday, 8.12.2025.

08,30 - 09,15	Thoracic organs (lungs, mediastinum)	L II. 5.	Assistant professor Vilma Kosović
09,15 – 10,00	Thoracic organs (lungs, mediastinum)	L II. 5.	Assistant professor Vilma Kosović
10,00 - 10,15	BREAK		
10,15 – 11,00	Thoracic organs (lungs, mediastinum)	L II. 6.	Assistant professor Vilma Kosović
11,00 – 11,45	Thoracic organs (lungs, mediastinum)	L II. 6.	Assistant professor Vilma Kosović
11,45 - 12,00	BREAK		
12,00 – 12.45	Radiological diagnosis of breast disease	L II. 7.	Assistant professor Vilma Kosović
12.45 – 13.30	Radiological diagnosis of breast disease	L II. 7.	Assistant professor Vilma Kosović
13,30-13,45	BREAK		
13,45-14,30	Seminar 2	S 2	Assistant professor Vilma Kosović
14,30-15,15	Seminar 2	S 2	Assistant professor Vilma Kosović

Tuesday, 9.12.2025.

08,30 - 09,15	Urogenital system and adrenal glands	L II. 8.	Assistant professor Krešimir Dolić
09,15 – 10,00	Urogenital system and adrenal glands	L II. 8.	Assistant professor Krešimir Dolić
10,00 - 10,15	BREAK		
10,15 – 11,00	Urogenital system and adrenal glands	L II. 8.	Assistant professor Krešimir Dolić
11,00 – 11,45	Gastrointestinal and hepatobiliary system	L II. 8.	Assistant professor Krešimir Dolić
11,45 - 12,00	BREAK		
12,00 – 12.45	Gastrointestinal and hepatobiliary system	L II. 9.	Assistant professor Krešimir Dolić
12.45 – 13.30	Gastrointestinal and hepatobiliary system	L II. 9.	Assistant professor Krešimir Dolić
13.30 – 14.15	Gastrointestinal and hepatobiliary system	L II. 9.	Assistant professor Krešimir Dolić
14,15-14,30	BREAK		
14,30-15,15	Seminar 3	S 3	Assistant professor Krešimir Dolić
15,15-16,00	Seminar 3	S 3	Assistant professor Krešimir Dolić

Wednesday, 10.12.2025.

08,30 - 09,15	Contrast agents in radiology	L II. 10.	Assistant professor Krešimir Dolić
09,15 – 10,00	Contrast agents in radiology	L II. 10.	Assistant professor Krešimir Dolić
10,00 - 10,15	BREAK		
10,15 – 11,00	Vessel dopler ultrasound	L II. 11.	Assistant professor Krešimir Dolić
11,00 – 11,45	Vessel dopler ultrasound	L II. 11.	Assistant professor Krešimir Dolić
11,45 – 12,00	BREAK		
12,00 – 12.45	Heart and great vessels	L II. 11.	Assistant professor Krešimir Dolić
12.45 – 13.30	Heart and great vessels	L II. 11.	Assistant professor Krešimir Dolić

Additional comments - Lectures:

All students are required to regularly attend lectures (as prescribed by the regulations of the faculty), and records will be kept.

All students who miss some of the lectures will be required to pass the colloquium from the missing part of the material, as a prerequisite for taking the exam (all students will be notified in a timely manner, considering this subject).

All students are obliged to respect the schedule and working places, to come to the lectures properly prepared and to inform the teacher or the head of the department if there are any ambiguities.

PRACTICALS AND SEMINARS, CLINICAL RADIOLOGY - P and S II.

P (practicals) 11.12. - 17.12.2025. (08,00-13,00 h) S II (seminars) 11.12. - 17.12.2025. (13,00-14,30 h).

	V II. 1.	V II. 2.	V II. 3.	V II. 4.	V II. 5.	V II. 6.			
Thursday, Practicals 11.12. 2025. 08.00 – 13.00	ALL STUDENTS TO ATTEND								
Seminar 4 13.00 – 14,30				ALL S	STUDENT	S TO AT	TEND		
Friday, Practicals 12.12.2025. 08.00 – 13.00					AI STUDE TO ATT	NTS			
Seminar 5 13.00 - 14,30					ALL STU TO AT	JDENTS TEND			
Monday, Practicals 15.12. 2025. 08.00 – 13.00					A STUDE TO ATT				
Seminar 6 13.00 – 14,30					ALL STU TO AT	JDENTS TEND			
Tuesday, Practicals 16.12.2025. 08.00 – 13.00					A STUDE TO ATT				
Seminar 7 13.00 – 14,30					ALL STU TO AT				
Wednesday, Practicals 17.12.2025. 08.00 – 13.00					A STUDE TO ATT				
Seminar 8 13.00 – 14,30					ALL STU TO AT				

Additional comments - Practicals:

All students are required to attend practicals (as prescribed by the rules of faculty), and records will be kept. All students who miss some of the practicals will be required to pass the colloquium from the missing part of the material, as a prerequisite for taking the exam (all students will be notified in a timely manner, considering this subject).

All students are required to attend the practicals properly dressed (white coat, appropriate clothing and footwear, mask according to current epidemic measures, pay attention to possible symptoms of respiratory infections and your body temperature), on time and in accordance with the schedule and agreement with the assistant who is in charge of practicals.

SEMINARS, CLINICAL RADIOLOGY

Thursday 11.12.2025. - Wednesday 17.12.2025.

Mark	Seminar title	Proffesor	N^0	Time
S 4	Cardiovascular system	dr. sc. Antonela Krasić	2	13.00 - 14.30
	•	Arapović, MD, PhD		
S 5	Urogenital system	dr. sc. Antonela Krasić	2	13.00 - 14.30
		Arapović, MD, PhD		
S 6	Neuroradiology	Assistant Dorijan	2	13.00 - 14.30
		Radančević		
S 7	Interventional radiology	Assistant professor Vedran	2	13.00 - 14.30
		Markotić		
S 8	Heart and great vessels	Assistant professor Vedran	2	13.00 - 14.30
		Markotić		

- 1. Seminar 1 (osteo-articular system) presenting group 1 to Associate professor Igor Borić, theme title: Hip fractures (acetabulum and proximal femur) types, classifications, X ray and i MDCT characteristics;
- 2. Seminar 2 (respiratory system) presenting group 2 to assistant proffesor Vilma Kosović, theme title: CoVid 19 pneumonia (X ray and MDCT characteristics);
- 3. Seminar 3 (gastrointestinal and hepatobiliary system) presenting group 3 to assistant proffesor Krešimir Dolić, theme title: The most common primary hepatic tumors (benign and malignate), secondary (metastatic) hepatic tumors;
- 4. Seminar 4 (cardiovascular system) presenting group 4 to dr. sc. Antonela Krasić Arapović, MD, PhD, theme title: Pulmonary embolis, diagnostic capacities (X ray, MDCT angiography of pulmonary arteries and scintigraphy);
- 5. Seminar 5 (urogenital system) presenting group 1 dr. sc. Antonela Krasić Arapović, MD, PhD, theme title: Urinary bladder tumors (most common benign and malignant ultraosund and MDCT diagnostic characteristics);
- 6. Seminar 6 (neuroradiology) presenting group 2 to Assistant Dorijan Radančević, theme title: Metastatic brain tumors (MDCT and MRI characteristics depending on primary tumor);
- 7. Seminar 7 (interventional radiology) presenting group 3 to Assistant professor Vedran Markotić, theme title: EVAR i TEVAR indications, contraindications, outcomes, postinterventional follow-up;
- 8. Seminar 8 (heart and great vessels) presenting group 4 to Assistant professor Vedran Markotić, theme title: MDCT and MRI coronography indications, protocols, most common pathology.

Additional comments - Seminars:

Students are divided into **4 (four)** seminar groups. Each group works on 2 (two) seminar topics (theme titles), jointly on searching the literature and making a presentation, and choose one representative who presents the work on the day of the seminar.

The seminars themselves are coordinated by teachers who can ask questions to the presenter and members of the seminar group (which is desirable, in order to determine the activity of the whole group), and finally give a grade for the seminar group, from 1 to 5, which will be taken into account at the exam) and enter it on the record list. Seminars are held during the week of the practicals (P II), 13:00 to 14:30 h. All students are required to attend seminars (as prescribed by the regulations of faculty), and records will be kept. All students who miss the same are required to pass the colloquium from the missing part of the material, as a prerequisite for taking the exam (all students will be notified in a timely manner, considering this subject).

When making presentations, use previously established rules (introduction, basics, pathology, radiology imaging...).

18.-19.12.2025. – two working days for consultationas, missed lectures or seminars for students.

RADIOLOGY CLASSES ARE PLANNED 3.12.2024.-20.12.2024.

LECTURES: 7 working days **SEMINARS**: 8 working days **PRACTICALS**: 6 working days

EXAM (I.) ewill be held on the date agreed beetwen the students and the head proffesor **WINTER AND SUMMER EXAM TERMS** are organized through the mutual agreement of teachers, student representatives and the service for the organization of classes, and students will be notified in a timely manner.

LITERATURE:

- 1. William Herring, Learning Radiology; Recognizing the Basics, 4th edition, Elsevier, 2020.
- 2. Lecture and seminars presentation materials (it will be provided in timely manner).

PROGRAM SCHEME: RADIOLOGY

	Tuesday 3.12.2024.	Wednesday 4.12.2024.	Thursday 5.12.2024.	Friday 6.12.2024.	Monday 9.12.2024.
08,30 - 09,15					
$09,15 - 10,00 \\ 10,00 - 10,15 \\ 10,15 - 11,00$	L I. 1, 2, 3	L I. 4, 5	L II 1, 2	L II. 3, 4	L II. 5, 6, 7
11,00 - 11,45 11,45 - 12,00	1, 2, 3	4, 3	1, 2	3,4	3, 0, 7
12,00 – 12.45 12.45 – 13.30					
14,00-15,30				S	S

	Tuesday 10.12.2024.	Wednesday 11.12.2024.
08,30 - 09,15		
09,15 - 10,00		
10,00 - 10,15		
10,15 - 11,00	L II.	L II. 10,
11,00 – 11,45	8, 9,	10, 11
11,45 – 12,00	0, 2,	10, 11
12,00 – 12.45		
13,00 – 13,45		
14.00 - 15:30	S	

	Thursday 12.12.2024.	Friday 13.12.2024.	Monday 16.12.2024.	Tuesday 17.12.2024.	Wednesday 18.12.2024.
08,30 - 13,00	P II. 1-10	P II. 1-10	P II. 1-10	P II. 1-10	P II. 1-10
13,00-14,30	S	S	S	S	S

Head proffesor

Assistant proffesor Vedran Markotić