



Sveučilište u Splitu Medicinski fakultet  
Universitas Studiorum Spalatensis Facultas Medica  
Šoltanska 2  
21000 Split  
HRVATSKA

## PLAN OF THE COURSE DIAGNOSTIC AND INTERVENTIONAL RADIOLOGY

*Academic year 2023/2024  
October 30 - November 24, 2023.*

COURSE COORDINATOR:  
izv. prof. sc. Sanja Lovric Kojundzic

### I. LIST OF LECTURERS AND TEACHING STAFF:

			e-mail	Phone
1.	Igor Barišić	prof. dr. sc.	igorbarisic@net.hr	557-388
2.	Ivana Štula	prof. dr. sc.	ivanast23@yahoo.com	556-243
3.	Zoran Rumboldt	prof. dr. sc.	rumbolz@mussc.edu	095-582-3105
4.	Tade Tadić	prof. dr. sc.	tade.tadic@st.htnet.hr	556-237
5.	Krešimir Dolić	prof. dr. sc.	kresimir.dolic@st.t-com.hr	556-540
6.	Sanja Lovrić Kojundžić	prof. dr. sc.	lovric.sanja@gmail.com	556-091
7.	Maja Marinović Guić	doc. dr. sc.	maja.marinovic.guić@mefst.hr	556-247
8.	Ana Čarić	doc. dr. sc.	ana.caric@mefst.hr	556-091
9.	Danijela Budimir Mršić	dr. sc.	danijelabudimir@gmail.com	556-091
10.	Dragan Dragičević	dr.med.	dragandragicevic1@gmail.com	556-243

## **II. COURSE AIMS**

To teach students basic physics algorithms and clinical application of imaging methods in modern diagnostic workup and interventional procedures.

## **III. COURSE STRUCTURE**

Lectures (L): 20 hours

Seminars (S): 12 hours

Practicals (P): 32 hours

Total: 64 hours

## **III. TEACHING VENUE**

**Lectures:** Large lecture hall Firule and amphitheater PAK

**Seminars:** Large lecture hall Firule, PAK Amphitheater, Seminar room 102 (Building B), Seminar room 101 (Building B)

**Practices:** Department of Diagnostic and Interventional Radiology, University Hospital Split (locality Firule and locality Križine).

## V. PLAN OF THE COURSE AND COURSE SCHEDULE

<i>MARK</i>	<i>LECTURE</i>	<i>LECTURER</i>	<i>Time (hours)</i>
<b>L 1</b>	Scope of Diagnostic Imaging The Physical Basics of Diagnostic Imaging	prof. dr. sc. Zoran Rumboldt	3
<b>L 2</b>	Imaging of the Brain and Spine	prof. dr. sc. Zoran Rumboldt	3
<b>L 3</b>	Imaging of the Heart and Great Vessels Interventional Radiology	prof. dr. sc. Ivana Štula	2
<b>L 4</b>	Radiology of the Chest	prof. dr. sc. Tade Tadić	3
<b>L 5</b>	Radiology of the Urinary Tract	prof. dr. sc. Krešimir Dolić	2
<b>L 6</b>	Musculoskeletal Imaging Imaging of the Joint	prof. dr. sc. Igor Barišić	3
<b>L 7</b>	Radiology of the Breast	prof. dr. sc. Tade Tadić	2
<b>L 8</b>	Gastrointestinal Tract Liver, Biliary Tract and Pancreas	dr. sc. Danijela Budimir Mršić	2

### Seminars and case base learning

<i>MARK</i>	<i>SEMINARS</i>	<i>LECTURER</i>	<i>Time (hours)</i>
S 1	Imaging of the Brain and Spine	prof. dr. sc. Zoran Rumboldt	3
S 2	Radiology of the Chest	prof. dr. sc. Tade Tadić	3
S 3	Musculoskeletal Imaging	prof. dr. sc. Igor Barišić	3
S 4	Plain film of the Abdomen Gastrointestinal Tract	dr. sc. Danijela Budimir Mršić	3

<i>MARK</i>	<i>PRACTICALS</i>	<i>LECTURERS AND TEACHING STAFF</i>	<i>Time (hours)</i>
P 1	Imaging of the Brain and Spine Radiology of the Head and Neck	prof. dr. sc. Zoran Rumboldt	4
P 2	Radiographic Anatomy	prof. dr. sc. Sanja Lovrić Kojundžić	4
P 3	Interventional Radiology	prof. dr. sc. Ivana Štula	4
P 4	Color Doppler US Imaging of Vessels	dr. sc. Danijela Budimir Mršić	4
P 5	Torax Breast Imaging	prof. dr. sc. Tade Tadić	4
P 6	Gastrointestinal Tract	doc. dr. sc. Ana Čarić doc.dr.sc. Maja Marinović Guić	4
P 7	Radiology of the Urinary Tract	prof. dr. sc. Krešimir Dolić	4
P 8	Ultrasound of the Abdomen Musculoskeletal Ultrasound	prof. dr. sc. Igor Barišić	4

## Week #1

### **30. October 2023. (Monday)**

13:50 - 16:15 **Lecture:** L1 - prof. dr. sc. Z. Rumboldt (**PAK, Sem 3**)

16:20 - 19:35 **Practice:** P1 (group 1) - prof. dr. sc. Z. Rumboldt (Department of Diagnostic and Interventional Radiology)

P2 (group 2) - prof. dr. sc. S. Lovrić Kojundžić (Department of Diagnostic and Interventional Radiology)

### **31. October 2023. (Tuesday)**

10.30 - 13:45 **Practice:** P2 (group 5) - prof. dr. sc. S. Lovrić Kojundžić (Department of Diagnostic and Interventional Radiology)

10.30 - 13:45 **Practice** P1 (group 4) - prof. dr. sc. Z. Rumboldt (Department of Diagnostic and Interventional Radiology)

13:50 - 16:15 **Lecture:** L2 - prof. dr. sc. Z. Rumboldt (**Amphiteater PAK**)

16:20 - 19:35 **Practice:** P1 (group 2) - prof. dr. sc. Z. Rumboldt (Department of Diagnostic and Interventional Radiology)

P2 (group 1) - prof. dr. sc. Lovrić Kojundžić (Department of Diagnostic and Interventional Radiology)

### **02. November 2023. (Thursday)**

10.30 - 13:45 **Practice:** P1 (group 5) - prof. dr. sc. Z. Rumboldt (Department of Diagnostic and Interventional Radiology)

P2 (group 3) - prof. dr. sc. S. Lovrić Kojundžić (Department of Diagnostic and Interventional Radiology)

13:50 - 16:15 **Seminars:** S1 (group 1) - prof. dr. sc. Z. Rumboldt (**Amphiteater PAK**)

16:20 - 19:35 **Practice:** P1 (group 3) - prof. dr. sc. Z. Rumboldt (Department of Diagnostic and Interventional Radiology)

P2 (group 4) - prof. dr. sc. Lovrić Kojundžić (Department of Diagnostic and Interventional Radiology)

### **03. November 2023. (Friday)**

08:00 - 10:25 **Seminars:** S1 (group 2) - prof. dr. sc. Z. Rumboldt (**PAK-sem2**)

## Week #2

### **06. November 2023. (Monday)**

13:50 - 15:25 **Lecture:** L3 – prof. dr. sc. Ivana Štula (**Large lecture hall Firule**)

15:30 - 18:45 **Practice:** P3 (group 1) - prof. dr. sc. Ivana Štula

P4 (group 2) – dr. sc. Danijela Budimir Mršić

P5 (group 3) - prof. dr. sc. T. Tadić

P6 (group 4) - doc.dr. sc. A. Čarić

P7 (group 5) - prof. dr. sc. Krešimir Dolić

### **07. November 2023. (Tuesday)**

13:50 - 16:15 **Lecture:** L4 - prof.dr.sc. Tade Tadić (**Large lecture hall Firule**)

16:20 - 19:35 **Practice:** Department of Diagnostic and Interventional Radiology:

P4 (group 1) - dr. sc. Danijela Budimir Mršić

P5 (group 2) - prof. dr. sc. T. Tadić

P6 (group 3) – doc. dr. sc. A. Čarić

P7 (group 4) - prof. dr. sc. Krešimir Dolić

P8 (group 5) - prof. dr. sc. I. Barišić

### **08. November 2023. (Wednesday)**

13:50 - 15:25 **Lecture:** L5 – prof.dr.sc Krešimir Dolić (**Large lecture hall Firule**)

15:30 - 18:45 **Practice:** Department of Diagnostic and Interventional Radiology:

P3 (group 5) - prof. dr. sc. Ivana Štula

P5 (group 1) - prof. dr. sc. T. Tadić

P6 (group 2) - doc.dr. sc. A. Čarić

P7 (group 3) - prof. dr. sc. K. Dolić

P8 (group 4) - prof. dr. sc. I. Barišić

### **09. November 2023. (Thursday)**

13:50 - 16:15 **Lecture:** L6 - prof. dr. sc. Igor Barišić (**Amphiteater PAK**)

16:20 - 19:35 **Practice:** Department of Diagnostic and Interventional Radiology:

P3 (group 4) - prof. dr. sc. Ivana Štula

P4 (group 5) - dr. sc. Danijela Budimir Mršić

P6 (group 1) - doc. dr. sc. Maja Marinović Guić

P7 (group 2) – prof. dr. sc. K. Dolić

P8 (group 3) - prof. dr. sc. I. Barišić

### **10. November 2023. (Friday)**

13:50 - 15:25 **Lecture:** L7 - doc. dr. sc. Tade Tadić (**Large lecture hall Firule**)

15:30 - 18:45 **Practice:** Department of Diagnostic and Interventional Radiology:

P3 (group 3) - prof. dr. sc. Ivana Štula

P4 (group 4) - dr. sc. Danijela Budimir Mršić

P5 (group 5) - prof. dr. sc. T. Tadić

P7 (group 1) – prof.dr.sc. K. Dolić

P8 (group 2) - prof. dr. sc. I. Barišić

### Week #3

#### **13. November 2023. (Monday)**

13:50 - 15:25 **Lecture:** L8 - dr. sc. D. Budimir Mršić (**Large lecture hall Firule**)

15:30 - 18:45 **Practice:** Department of Diagnostic and Interventional Radiology:

P3 (group 2) - prof. dr. sc. Ivana Štula

P4 (group 3) - dr. sc. Danijela Budimir Mršić

P5 (group 4) - prof. dr. sc. T. Tadić

P6 (group 5) - doc. dr. sc. Maja Marinović Guić

P8 (group 1) - prof. dr. sc. I. Barišić

#### **14. November 2023. (Tuesday)**

13:50 - 16:15 **Seminar:** S2 (group 1) - prof. dr. sc. T. Tadić (**Large lecture hall Firule**)

#### **15. November 2023. (Wednesday)**

13:50 - 16:15 **Seminar:** S2 (group 2) - prof. dr. sc. T. Tadić (**Amphiteater PAK**)

#### **16. November 2023. (Thursday)**

13:50 - 16:15 **Seminar:** S3 (group 1) - prof. dr. sc. I. Barišić (**Seminar room B 101/Building B**)

13:50 - 16:15 **Seminar:** S4 (group 2) – dr. sc. Danijela Budimir Mršić (**Amphiteater PAK**)

### Week #4

#### **17. November 2023. (Friday)**

13:50 - 16:15 **Seminar:** S3 (group 2) - prof. dr. sc. I. Barišić (**Seminar room B 101/Building B**)

13:50 - 16:15 **Seminar:** S4 (group 1) - dr. sc. Danijela Budimir Mršić (**Amphiteater PAK**)

### Week #5

#### **24. November 2023. (Friday)**

09.40 -12:05 **Written Exam (Amphiteater PAK, Computer classroom)**

14:00 **Oral exam**

## V. Course Location:

Lectures and Seminars will be hold at main lecture hall at Clinical hospital Split, PAK and Department of Diagnostic and Interventional Radiology. Practicals will take part in the Department of Diagnostic and Interventional Radiology, Clinical Hospital Split (second floor).

*SEE DETAILS ABOVE*

## VI. EXAMINATION

The exam consists of a written test (80 questions) and an oral exam.

A minimum of 60% correct answers is required to pass the written test.

In oral exam students will be asked about the basic physics of conventional X rays, CT, MRI, US, contrast media and radiation protection. Also, students need to understand imaging algorithms in various disorders, recognize basic pathology on conventional X-rays, recognize basic pathology on CT / MRI / US in various organ systems and demonstrate basic knowledge about image guided minimally invasive procedures.

The attendance is mandatory to all lectures, seminars, and practicals. Students may be absent up to 10% of all teaching modalities.

## EXAM DEADLINES

I	II	III	IV
24.11.	18.7.	4.9.	18.9.

## VII. LIST OF EXAMINERS

1. Prof. dr. sc. Igor Barišić
2. Prof. d. sc. Sanja Lovrić Kojundžić
3. Prof. d. sc. Ivana Štula
4. Prof. dr. sc. Tade Tadić
5. Prof. dr. sc. Krešimir Dolić

## VIII. LITERATURE:



**Obligatory:** Basic Radiology, Second Edition (LANGE Clinical Medicine) by Michael Chen (Author), Thomas Pope (Author), David Ott (Author)

**Optional:** Learning Radiology: Recognizing the Basics (With STUDENT CONSULT Online Access), 2e, by William Herring MD (Author)