



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 2024/2025.
October 28 - November 22, 2024.*

COURSE COORDINATOR:
izv. prof.dr.sc. Sanja Lovrić Kojundžić

I. LIST OF LECTURERS AND TEACHING STAFF:

| | TEACHING STAFF | | e-mail | Phone |
|-----|------------------------|---------------|--|--------------|
| 1. | Zoran Rumboldt | prof. dr. sc. | rumbolz@mussc.edu | 095-582-3105 |
| 2. | Ivana Štula | prof. dr. sc. | ivanast23@yahoo.com | 556-243 |
| 3. | Sanja Lovrić Kojundžić | prof. dr. sc. | lovric.sanja@gmail.com | 556-091 |
| 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. | Ljiljana Marčić | doc. dr. sc. | ljiljana.marcic@mefst.hr | 556-243 |
| 7. | Maja Marinović Guić | doc. dr. sc. | maja.marinovic.guić@mefst.hr | 556-247 |
| 8. | Marija Čavar Borić | dr. sc. | cavar_marija@yahoo.com | 556-243 |
| 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> |
|-------------|--|--------------------------------|---------------------|
| L 1 | Scope of Diagnostic Imaging The Physical Basics of Diagnostic Imaging | prof. dr. sc. Zoran Rumboldt | 3 |
| L 2 | Imaging of the Brain and Spine | prof. dr. sc. Zoran Rumboldt | 3 |
| L 3 | Imaging of the Heart and Great Vessels Interventional Radiology | prof. dr. sc. Ivana Štula | 2 |
| L 4 | Radiology of the Chest | prof. dr. sc. Tade Tadić | 3 |
| L 5 | Radiology of the Urinary Tract | prof. dr. sc. Krešimir Dolić | 2 |
| L 6 | Musculoskeletal Imaging Imaging of the Joint | doc. dr. sc. Liljana Marčić | 3 |
| L 7 | Radiology of the Breast | prof. dr. sc. Tade Tadić | 2 |
| L 8 | 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 | doc. dr. sc. Liljana Marčić | 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 Ivan Ordulj, dr. med. | 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. Maja Marinović Guić Antonia Bralić, dr. med. | 4 |
| P 7 | Radiology of the Urinary Tract | prof. dr. sc. Krešimir Dolić | 4 |
| P 8 | Ultrasound of the Abdomen Musculoskeletal Ultrasound | dr. sc. Marija Čavar Borić | 4 |

Week #1

28. October 2024. (Monday)

13:50 - 16:15 **Lecture:** L1 - prof. dr. sc. Z. Rumboldt (**Large lecture hall Firule**)

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)

29. October 2024. (Tuesday)

13:50 - 16:15 **Lecture:** L2 - prof. dr. sc. Z. Rumboldt (**Large lecture hall Firule**)

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)

30. October 2024. (Wednesday)

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 (**Large lecture hall Firule**)

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. S. Lovrić Kojundžić (Department of Diagnostic and Interventional Radiology)

31. October 2024. (Thursday)

10:30 - 12:55 **Seminars:** S1 (group 2) - prof. dr. sc. Z. Rumboldt (**PAK-sem3**)

13:45 – 16:15 **Practice:** P2 (group 5) - prof. dr. sc. S. Lovrić Kojundžić (Department of Diagnostic and Interventional Radiology)

13:45 – 16:15 **Practice** P1 (group 4) - prof. dr. sc. Z. Rumboldt (Department of Diagnostic and Interventional Radiology)

Week #2

04. November 2024. (Monday)

13:50 - 15:25 **Lecture:** L3 – prof. dr. sc. Ivana Štula (**Amphiteater PAK**)

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) - Antonia Bralić, dr. med.

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

05. November 2024. (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) –Antonia Bralić, dr. med.

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

P8 (group 5) - dr. sc. Marija Čavar Borić

06. November 2024. (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) - Antonia Bralić, dr. med.

P7 (group 3) - prof. dr. sc. K. Dolić

P8 (group 4) – dr. sc. Marija Čavar Borić

07. November 2024. (Thursday)

13:50 - 16:15 **Lecture:** L6 - doc. dr. sc. Ljiljana Marčić (**Large lecture hall Firule**)

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) - dr. sc. Marija Čavar Borić

8. November 2024. (Friday)

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

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

P3 (group 3) - Ivan Ordulj, dr. med

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) - dr. sc. Marija Čavar Borić

Week #3

11. November 2024. (Monday)

13:50 - 15:25 **Lecture:** L8 - dr. sc. D. Budimir Mršić (**Amphiteater PAK**)

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

P3 (group 2) – Ivan Ordulj, dr. med

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) - dr. sc. Marija Čavar Borić

12. November 2024. (Tuesday)

13:50 - 16:15 **Seminar:** S2 (group 1) - prof. dr. sc. T. Tadić (**Amphiteater PAK**)

13. November 2024. (Wednesday)

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

14. November 2024. (Thursday)

13:50 - 16:15 **Seminar:** S3 (group 1) – doc. dr. sc. Liljana Marčić (**PAK, Sem3**)

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

15. November 2024. (Friday)

13:50 - 16:15 **Seminar:** S3 (group 2) - doc. dr. sc. Liljana Marčić (**PAK, Sem2**)

13:50 - 16:15 **Seminar:** S4 (group 1) - dr. sc. Danijela Budimir Mršić (**PAK, Sem3**)

Week #5

25. November 2024. (Monday)

14.40 - 17:05 **Written Exam** (Amphiteater PAK, Sem2-PAK)

Oral exam: 26.11.2024.

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 |
|--------|-------|------|-------|
| 25.11. | 18.7. | 4.9. | 18.9. |

VII. LIST OF EXAMINERS

1. Prof. d. sc. Sanja Lovrić Kojundžić
2. Prof. d. sc. Ivana Štula
3. Prof. dr. sc. Tade Tadić
4. 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)

COURSE COORDINATOR:

Department of Medical Radiology

izv. prof.dr.sc. Sanja Lovrić Kojundžić

