Medicinski fakultet u Rijeci

IZVEDBENI NASTAVNI PLAN
2025/2026

Za kolegij

Orthopaedics

Studij:	**Medical Studies in English (R)** Sveučilišni integrirani prijediplomski i diplomski studij
Katedra:	**Katedra za ortopediju i fizikalnu medicinu**
Nositelj kolegija:	**doc. dr. sc. Prpić Tomislav, dr. med.**
Godina studija:	**5**
ECTS:	**3.5**
Stimulativni ECTS:	**0 (0.00%)**
Strani jezik:	**Mogućnost izvođenja na stranom jeziku**

Podaci o kolegiju:

Orthopaedics is compulsory course on 5th year of study. It consists of 30 lectures and 32 practical hours (3,5 ECTS). Lectures and practicals will be organized at Clinic for orthopedic surgery Lovran, M. Tita 1, Lovran.

In the case of the unfavorable epidemiological situation educational process will be held online.

Learning outcomes:
• identify disorders and injuries of musculoskeletal system
• diagnose and explain causes of impairment of musculoskeletal system
• distinguish diagnostic and therapeutic procedures used to treat disorders and injuries of musculoskeletal system
• evaluate importance of right treatment method for orthopedic patient
• integrate acquired knowledge with general approach to the patient

Popis obvezne ispitne literature:

1. Apley and Solomon’s System of Orthopaedics and Trauma, 10th ed., CRC Press,2017

Popis dopunske literature:

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Nastavni plan:

Predavanja popis (s naslovima i pojašnjenjem):

L1. Introduction and history of orthopedics

Acquiring knowledge about history of orthopedics .Get acquainted with goal of orthopedics

L2. History,clinical examination, types of orthopaedic operations

Get acquainted with basics in anamnesis , clinical examination, diagnostics and therapy in orthopedics

L3. Diagnostic imaging (plain radiography,computed tomography,magnetic resonance imaging,ultrasound,radionuclide imaging)

Get acquinted with diagnostic imaging methods encountered in diagnosis of orthopedic disorders. Describe and explain indications for each diagnostic method. Correlate results of diagnostic imaging with clinical examination

L4. Tissues of musculosceletal system

Acquiring knowledge about tissues comprising musculosceletal system

L5. Normal bone healing

Understanding mechanism of normal bone healing

L6. Impaired bone healing

Understanding causes of bone healing impairment

L7. Bone remodelling and endocrine disorders of skeletal system

Describe and explain mechanism of endocrine regulation of bone remodelling Acquiring knowledge about endocrine bone disorders

L8.Metabolic disorders of skeletal system

Get acquinted with major metabolic disorders of skeletal system

L9., L10. Infections of musculoskeletal system

Recognize and explain causes of infection of musculoskeletal system Know how to diagnose and treat bone infection

L11., L12. Degenerative disorders of musculoskeletal system

Describe and explain mechanism of musculoskeletal system degeneration Recognize and determine diagnostics and therapy in degenerative disorders of musculoskeletal system

L13. Children's orthopedics: immature skeleton

Get acquinted with immature skeleton and its specificity. Distinguish pediatric from adult musculoskeletal system

L14. Children's orthopedics:the hip

Describe and explain causes of pediatric hip disorders .Recognize and determine diagnostics and therapy of pediatric hip disorders

L15. Children's orthopedics:the foot

Describe and explain causes of pediatric foot disorders. Recognize and determine diagnostics and therapy protocol of pediatric foot disorders

L16.,L17. The neck and pectoral girdle disorders

Get acquinted with major disorders of neck and pectoral girdle. Learn how to diagnose and treat neck and pectoral girdle disorders

L18., L19. The shoulder and upper arm

Acquiring knowledge about shoulder and upper arm disorders. Recognize and determine diagnostics and therapy in

shoulder and upper arm disorders.

L20. i L21. The elbow and forearm

Determine diagnostic and treatment protocol of elbow and forearm disorders

L22. The wrist and the hand

Get aquainted with major disorders affecting wrist and the hand. Selecting appropriate diagnostic and treatment method to solve disorder of wrist and the hand

L23., L24. The hip and upper leg

Recognize disorders of hip and upper leg. Determine diagnostics and therapy in hip and upper leg disorders

L25.,L26 The knee and lower leg

Describe knee and lower leg disorders. Determine diagnostic and treatment method for specific knee and lower leg disorder

L27.,L28. The foot and ankle

Recognize foot and ankle disorders. Determine appropriate diagnostic and treatment method in foot and ankle disorders

L29.,L30 Tumors of musculoskeletal system

Describe tumors of musculoskeletal system. Recognize and diagnose tumors of musculoskeletal system .Get acquinted with treatment options for musculoskeletal tumors.

Vježbe popis (s naslovima i pojašnjenjem):

Practicals 1-5. History and clinical examination of the spine

Following theoretical part apply practical knowledge of taking history and clinical examination of the spine

Practicals 6-10. History and clinical examination of the hip and upper leg

Following theoretical part apply practical knowledge of taking history and clinical examination of the hip and upper leg

Practical 11-15. History and clinical examination of the knee and lower leg

Following theoretical part apply practical knowledge of taking history and clinical examination of the knee and lower leg

Practical 16-20. History and clinical examination of the foot and ankle

Following theoretical part apply practical knowledge of taking history and clinical examination of the foot and ankle

Practical 21-25. History and clinical examination of the shoulder, upper arm, elbow and lower arm

Following theoretical part apply practical knowledge of taking history and clinical examination of the shoulder, upper arm, elbow and lower arm

Practical 26-32. History and clinical examination of the wrist and the hand

Following theoretical part apply practical knowledge of taking history and clinical examination of the wrist and the hand

Obveze studenata:

Attendance on lectures and practicals are mandatory. Communication between the teaching stuff and students will take place by e-mail addresses (@uniri.hr)

Ispit (način polaganja ispita, opis pisanog/usmenog/praktičnog dijela ispita, način bodovanja, kriterij ocjenjivanja):

Student assessment is carried out in accordance with the current University of Rijeka Study Regulations and the Student Regulations at the Faculty of Medicine Rijeka (adopted by the Faculty Council of the Faculty of Medicine Rijeka). Students' performance will be evaluated during the course and at the final exam. Out of a total of 100 credits, a student can earn 50 credits (50%) during the course, and 50 credits (50%) at the final exam. Student assessment is performed using ECTS (A-E) and number system (1-5). Student assessments in ECTS system is carried out by is performed by absolute distribution, and according to graduate assessment criteria. Out of a total of 50 credits that can be earned during the course, student must earn minimum 25 credits to take final exam.

I. During the course (maximum 50 credits):

Obligatory colloquium I and II test (maximum up to 25+25 credits) During the course all students must take obligatory first colloquium earning maximum 25 credits (range 13-25 maximum). During course all students must take second obligatory colloquium aswell earning maximum 25 credits (range 13-25)

grade	credits
sufficient	13-15
good	16-19
very good	20-23
excellent	24-25

II. Final exam (maximum 50 credits):

Final exam consists of obligatory written exam on Merlin platform in the form of essay. Student who earn 25 or more credits during the course can take final exam. Student who earn less than 25 credits during the course cannot take final exam. Final exam is scored maximal up to 50 credits. Final exam consists of 5 questions and brings 50 credits (range 25-50). To earn the credits student must pass 50% of final test. Correct answers are converted in credits by the following criteria:

grade	credits
sufficient	13-15
good	16-19
very good	20-23
excellent	24-25

For a passing grade during classes and on the final exam, student has to obtain minimum of 50 credits.

The ECTS grading system is defined by the following criteria: A - 90 -100% credits B - 80 - 89,9% credits C - 70 - 79,9% credits D - 60 - 69,9% credits E - 50 - 59,9% credits Grades in ECTS grading system are converted in numerical system by the following criteria: A = excellent (5) B = very good (4) C = good (3) D = sufficient (2) E = insufficient (1)

Ostale napomene (vezane uz kolegij) važne za studente:

Course content and all information related to the course as well as exam dates can be found on the MedRi web pages. All student inquiries, regarding the course and possible problems, remarks and inquiries are provided exclusively using the official e-mail addresses (@medri.uniri.hr). It is possible to arrange consultations with the teaching staff during working hours.

SATNICA IZVOĐENJA NASTAVE 2025/2026

Orthopaedics

Predavanja (mjesto i vrijeme / grupa)	**Vježbe** (mjesto i vrijeme / grupa)
23.02.2026	

L2. History,clinical examination, types of orthopaedic operations:
• / (08:00 - 09:00) [304]
  ○ O_393
 	
L1. Introduction and history of orthopedics:
• Ortopedija - Lovran (08:00 - 09:00) [304]
  ○ O_393
 	
L4. Tissues of musculosceletal system:
• / (09:00 - 10:00) [305]
  ○ O_393
 	
L3. Diagnostic imaging (plain radiography,computed tomography,magnetic resonance imaging,ultrasound,radionuclide imaging):
• Ortopedija - Lovran (09:00 - 10:00) [305]
  ○ O_393
 	
L5. Normal bone healing:
• Ortopedija - Lovran (10:00 - 11:00) [305]
  ○ O_393	

doc. dr. sc. Prpić Tomislav, dr. med. [305] · prof. dr. sc. Šantić Veljko, dr. med. [304]	
24.02.2026	

	Practicals 1-5. History and clinical examination of the spine:
	• Ortopedija (08:00 - 13:00) [1950]
	  ○ ORTHOPAEDICS B2
	• / (08:00 - 13:00) [1950] [1429]
	  ○ ORTHOPAEDICS B3
	  ○ ORTHOPAEDICS A3
	  ○ ORTHOPAEDICS A1
	  ○ ORTHOPAEDICS A2
	  ○ ORTHOPAEDICS B1

naslovni asistent Gulan Leo, dr. med. [1429] · naslovni asistent Tudor Karlo, dr. med. [1950]	
25.02.2026	

L6. Impaired bone healing:
• ONLINE (13:00 - 14:00) [300]
  ○ O_393
 	
L7. Bone remodelling and endocrine disorders of skeletal system:
• ONLINE (14:00 - 15:00) [305]
  ○ O_393
 	
L8.Metabolic disorders of skeletal system:
• ONLINE (15:00 - 16:00) [305]
  ○ O_393
 	
L9., L10. Infections of musculoskeletal system:
• ONLINE (16:00 - 18:00) [305]
  ○ O_393	

nasl.doc. dr. sc. Gržalja Nikola, dr. med. [300] · doc. dr. sc. Prpić Tomislav, dr. med. [305]	

26.02.2026	

	Practicals 1-5. History and clinical examination of the spine:
	• Ortopedija (08:00 - 13:00) [1429]
	  ◦ ORTHOPAEDICS C1
	• / (08:00 - 13:00) [1429]
	  ◦ ORTHOPAEDICS C2
	
	Practicals 6-10. History and clinical examination of the hip and upper leg:
	• / (08:00 - 13:00) [1950]
	  ◦ ORTHOPAEDICS B2
	  ◦ ORTHOPAEDICS B1
	  ◦ ORTHOPAEDICS B3

naslovni asistent Gulan Leo, dr. med. [1429] · naslovni asistent Tudor Karlo, dr. med. [1950]	
27.02.2026	

L11., L12. Degenerative disorders of musculoskeletal system:
• ONLINE (16:00 - 18:00) [305]
  ◦ O_393
 	
L14. Children's orthopedics:the hip:
• ONLINE (18:00 - 19:00) [305]
  ◦ O_393
 	
L13. Children's orthopedics: immature skeleton:
• ONLINE (18:00 - 19:00) [305]
  ◦ O_393
 	
L15. Children's orthopedics:the foot:
• ONLINE (19:00 - 20:00) [305]
  ◦ O_393	

doc. dr. sc. Prpić Tomislav, dr. med. [305]	
02.03.2026	

	Practicals 6-10. History and clinical examination of the hip and upper leg:
	• / (08:00 - 13:00) [1950] [1429]
	  ◦ ORTHOPAEDICS A3
	  ◦ ORTHOPAEDICS C2
	  ◦ ORTHOPAEDICS A2
	  ◦ ORTHOPAEDICS A1
	  ◦ ORTHOPAEDICS C1

naslovni asistent Gulan Leo, dr. med. [1429] · naslovni asistent Tudor Karlo, dr. med. [1950]	
03.03.2026	

L16.,L17. The neck and pectoral girdle disorders:
• ONLINE (12:00 - 14:00) [305]
  ◦ O_393
 	
L18., L19. The shoulder and upper arm:
• ONLINE (14:00 - 16:00) [305]
  ◦ O_393
 	
L20. i L21. The elbow and forearm:
• ONLINE (16:00 - 17:00) [305]
  ◦ O_393	

doc. dr. sc. Prpić Tomislav, dr. med. [305]	

04.03.2026	
	Practical 11-15. History and clinical examination of the knee and lower leg: • / (08:00 - 13:00) [1429] [1950] ◦ ORTHOPAEDICS A1 ◦ ORTHOPAEDICS A2 ◦ ORTHOPAEDICS B1 ◦ ORTHOPAEDICS B2 ◦ ORTHOPAEDICS B3 ◦ ORTHOPAEDICS A3
naslovni asistent Gulan Leo, dr. med. [1429] · naslovni asistent Tudor Karlo, dr. med. [1950]	
05.03.2026	
L20. i L21. The elbow and forearm: • ONLINE (16:00 - 17:00) [305] ◦ O_393 L22. The wrist and the hand: • ONLINE (17:00 - 18:00) [302] ◦ O_393 L23., L24. The hip and upper leg: • ONLINE (18:00 - 20:00) [305] ◦ O_393 L25.,L26 The knee and lower leg: • ONLINE (19:00 - 20:00) [303] ◦ O_393	
prof. dr. sc. Gulan Gordan, dr. med. [303] · izv. prof. dr. sc. Jotanović Zdravko, dr. med. [302] · doc. dr. sc. Prpić Tomislav, dr. med. [305]	
06.03.2026	
	Practical 11-15. History and clinical examination of the knee and lower leg: • Ortopedija - Lovran (08:00 - 13:00) [1429] ◦ ORTHOPAEDICS C1 • / (08:00 - 13:00) [1429] ◦ ORTHOPAEDICS C2 Practical 16-20. History and clinical examination of the foot and ankle: • / (08:00 - 13:00) [1950] ◦ ORTHOPAEDICS B2 ◦ ORTHOPAEDICS B3 • Ortopedija (08:00 - 13:00) [1950] ◦ ORTHOPAEDICS B1
naslovni asistent Gulan Leo, dr. med. [1429] · naslovni asistent Tudor Karlo, dr. med. [1950]	
09.03.2026	
L25.,L26 The knee and lower leg: • ONLINE (16:00 - 17:00) [303] ◦ O_393 L27.,L28. The foot and ankle: • ONLINE (17:00 - 19:00) [304] ◦ O_393 L29.,L30 Tumors of musculoskeletal system: • ONLINE (18:00 - 20:00) [305] ◦ O_393	

prof. dr. sc. Gulan Gordan, dr. med. [303] · doc. dr. sc. Prpić Tomislav, dr. med. [305] · prof. dr. sc. Šantić Veljko, dr. med. [304]	
10.03.2026	
	Practical 16-20. History and clinical examination of the foot and ankle: • / (08:00 - 13:00) [1950] [1429] ◦ ORTHOPAEDICS A1 ◦ ORTHOPAEDICS C2 ◦ ORTHOPAEDICS A3 • Ortopedija - Lovran (08:00 - 13:00) [1950] ◦ ORTHOPAEDICS C1 • Ortopedija (08:00 - 13:00) [1429] ◦ ORTHOPAEDICS A2
naslovni asistent Gulan Leo, dr. med. [1429] · naslovni asistent Tudor Karlo, dr. med. [1950]	
11.03.2026	
	Practical 21-25. History and clinical examination of the shoulder, upper arm, elbow and lower arm: • Ortopedija (08:00 - 13:00) [1950] ◦ ORTHOPAEDICS B2 • / (08:00 - 13:00) [1950] [1429] ◦ ORTHOPAEDICS A2 ◦ ORTHOPAEDICS A1 ◦ ORTHOPAEDICS A3 ◦ ORTHOPAEDICS B3 • Ortopedija - Lovran (08:00 - 13:00) [1950] ◦ ORTHOPAEDICS B1
naslovni asistent Gulan Leo, dr. med. [1429] · naslovni asistent Tudor Karlo, dr. med. [1950]	
12.03.2026	
	Practical 21-25. History and clinical examination of the shoulder, upper arm, elbow and lower arm: • / (07:00 - 15:00) [1950] ◦ ORTHOPAEDICS C2 • / (08:00 - 13:00) [1950] ◦ ORTHOPAEDICS C1 Practical 26-32. History and clinical examination of the wrist and the hand: • Ortopedija - Lovran (08:00 - 15:00) [1429] ◦ ORTHOPAEDICS B2 • Ortopedija (08:00 - 15:00) [1429] ◦ ORTHOPAEDICS B1 • / (08:00 - 15:00) [1429] ◦ ORTHOPAEDICS B3
naslovni asistent Gulan Leo, dr. med. [1429] · naslovni asistent Tudor Karlo, dr. med. [1950]	
13.03.2026	
	Practical 26-32. History and clinical examination of the wrist and the hand: • Ortopedija - Lovran (08:00 - 15:00) [1950] ◦ ORTHOPAEDICS A2 • / (08:00 - 15:00) [1429] [1950] ◦ ORTHOPAEDICS A3 ◦ ORTHOPAEDICS C2 ◦ ORTHOPAEDICS A1 • Ortopedija (08:00 - 15:00) [1429] ◦ ORTHOPAEDICS C1

naslovni asistent Gulan Leo, dr. med. [1429] · naslovni asistent Tudor Karlo, dr. med. [1950]

Popis predavanja, seminara i vježbi:

PREDAVANJA (TEMA)	Broj sati	Mjesto održavanja
L1. Introduction and history of orthopedics	1	Ortopedija - Lovran
L2. History,clinical examination, types of orthopaedic operations	1	/
L3. Diagnostic imaging (plain radiography,computed tomography,magnetic resonance imaging,ultrasound,radionuclide imaging)	1	Ortopedija - Lovran
L4. Tissues of musculosceletal system	1	/
L5. Normal bone healing	1	Ortopedija - Lovran
L6. Impaired bone healing	1	ONLINE
L7. Bone remodelling and endocrine disorders of skeletal system	1	ONLINE
L8.Metabolic disorders of skeletal system	1	ONLINE
L9., L10. Infections of musculoskeletal system	2	ONLINE
L11., L12. Degenerative disorders of musculoskeletal system	2	ONLINE
L13. Children's orthopedics: immature skeleton	1	ONLINE
L14. Children's orthopedics:the hip	1	ONLINE
L15. Children's orthopedics:the foot	1	ONLINE
L16.,L17. The neck and pectoral girdle disorders	2	ONLINE
L18., L19. The shoulder and upper arm	2	ONLINE
L20. i L21. The elbow and forearm	2	ONLINE
L22. The wrist and the hand	1	ONLINE
L23., L24. The hip and upper leg	2	ONLINE
L25.,L26 The knee and lower leg	2	ONLINE
L27.,L28. The foot and ankle	2	ONLINE
L29.,L30 Tumors of musculoskeletal system	2	ONLINE

VJEŽBE (TEMA)	Broj sati	Mjesto održavanja
Practicals 1-5. History and clinical examination of the spine	5	/ Ortopedija
Practicals 6-10. History and clinical examination of the hip and upper leg	6	/
Practical 11-15. History and clinical examination of the knee and lower leg	6	/ Ortopedija - Lovran
Practical 16-20. History and clinical examination of the foot and ankle	5	/ Ortopedija Ortopedija - Lovran
Practical 21-25. History and clinical examination of the shoulder, upper arm, elbow and lower arm	5	/ Ortopedija Ortopedija - Lovran
Practical 26-32. History and clinical examination of the wrist and the hand	5	/ Ortopedija Ortopedija - Lovran

ISPITNI TERMINI (završni ispit):

1.	16.03.2026.
2.	03.09.2026.
3.	17.09.2026.