

University  
of Ljubljana

*Faculty of  
medicine*



# MUSCULOSKELETAL SYSTEM

## LECTURE SYLLABUS, LITERATURE AND EXAMINATION INSTRUCTIONS FOR ERASMUS STUDENTS 2019/2020

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October 2019

# MUSCULOSKELETAL SYSTEM

## AUTUMN 2019

	ORTHO	ORTHO	TRAUMA	PRM
<b>1. WEEK</b>				
11.11. M	Lectures FRM			
12.11. T	seminar 1	practice 2	seminar 3	practice 4
13.11. W	practice 1	seminar 2	-	practice 4
14.11. T	seminar 1	practice 2	-	practice 4
15.11. F	Lectures Traumatology			

<b>2. WEEK</b>				
18.11. M	Lectures Orthopaedics			
19.11. T	practice 1	seminar 2	seminar 4	practice 3
20.11. W	seminar 1	practice 2	-	practice 3
21.11. T	practice 1	seminar 2	-	practice 3
22.11. F	Lectures Plastic Surgery			

### ELECTIVE COURSES 25.11.-29.11.2019

3. WEEK				
02.12. M	Lectures Orthopaedics			
03.12. T	practice 4	seminar 3	seminar 2	practice 1
04.12. W	seminar 4	practice 3	-	practice 1
05.12. T	practice 4	seminar 3 and 2 radiol. 11-13h		practice 1
06.12. F	Lectures Skeletal Radiology + Plastic Surgery			

4. WEEK				
09.12. M	Lectures Traumatology			
10.12. T	seminar 3	practice 4	seminar 1	practice 2
11.12. W	practice 3	seminar 4	-	practice 2
12.12. T	seminar 3	seminar 4 and 1 radiol. 11-13h		practice 2
13.12. M				
18.12. W	WRITTEN EXAMINATION			
19.12. T	ORAL EXAMINATION according to schedule (Chair of Orthopaedics)			
20.12. F	ORAL EXAMINATION according to schedule (Chair of Orthopaedics)			

# LECTURES - AUTUMN 2019

**DATE: Monday, 11.11.2019, location URI Soča – Vrtnica, 4. floor**

<b><i>Schedule</i></b>	<b><i>Lecture title</i></b>	<b><i>Lecturer</i></b>
08.30-09.15	Principles of physical rehabilitation medicine	Moharić
09.15-10.00	Assessment by International Classification of Functioning, Disability and Health	Burger
10.15-11.00	Physical medicine	Moharić
11.00-11.45	Rehabilitation of patients with CNS injuries	Goljar
12.00-12.45	Rehabilitation of patients with musculoskeletal injuries and peripheral nerve injuries	Novak

**DATE: Friday, 15.11.2019, location Stara travmatološka klinika**

<b><i>Schedule</i></b>	<b><i>Lecture title</i></b>	<b><i>Lecturer</i></b>
08.15-09.00	Fractures – classification, diagnostics, therapy	Tomaževič
09.15-10.00	Pediatric fractures	Kastelec
10.15-11.00	Pathological fractures	Komadina
11.15-12.00	Osteitis	Gril
12.15-13.00	Soft-tissue injuries	Jug
13.15-14.00	Shoulder-girdle and upper arm injuries	Senekovič
14.15-15.00	Elbow and lower arm injuries	Kastelec

**DATE: Monday, 18.11.2019, location Ortopedska klinika**

<b><i>Schedule</i></b>	<b><i>Lecture title</i></b>	<b><i>Lecturer</i></b>
08.15-09.00	Introduction to Orthopaedics	Antolič
09.15-10.00	Diagnostics in Orthopaedics	Mavčič
10.15-11.00	Orthopaedic diseases by symptoms and signs	Mavčič
11.15-12.00	Orthopaedic diseases by etiology	Stražar
12.15-13.00	Diseases of muscles, nerves and soft tissues	Stražar
13.15-14.00	Spine	Vengust

**DATE: Friday, 22.11.2019, location Stara travmatološka klinika**

<b><i>Schedule</i></b>	<b><i>Lecture title</i></b>	<b><i>Lecturer</i></b>
11.15-12.00	Congenital anomalies and complex hand reconstruction surgery	Pogorelec
12.15-13.00	Operative techniques of hand surgery	Ahčan
13.15-14.00	Hand injuries	Ahčan
14.15-15.00	Hand diseases	Rogelj
15.15-16.00	Surgical examination and anatomy of the hand	Arnež
16.15-17.00	Reconstruction of the upper limb	Ahčan/Lapoša

**DATE: Monday, 02.12.2019, location Ortopedska klinika**

<b><i>Schedule</i></b>	<b><i>Lecture title</i></b>	<b><i>Lecturer</i></b>
08.15-09.00	Treatment of orthopaedic diseases	Dolinar
09.15-10.00	Hip and pelvis	Dolinar
10.15-11.00	Knee and lower leg	Zupanc
11.15-12.00	Upper limb (shoulder, elbow, wrist)	Zupanc
12.15-13.00	Diseases of bone and joints	Drobnič
13.15-14.00	Foot and ankle	Drobnič

**DATE: Friday, 06.12.2019, location Ortopedska klinika**

<b><i>Schedule</i></b>	<b><i>Lecture title</i></b>	<b><i>Lecturer</i></b>
07.30-08.15	Noninfective arthritis	Vogel
08.30-09.15	Degenerative changes	Limpel Novak
09.15-10.00	Bone tumors	Salapura
10.15-11.00	Bone scan - scintigraphy	Grmek

**DATE: Friday, 06.12.2019, location Stara travmatološka klinika**

<b><i>Schedule</i></b>	<b><i>Lecture title</i></b>	<b><i>Lecturer</i></b>
11.15-12.00	Surgical treatment of the facial nerve injury	Živec/Arnež
12.15-13.00	Reconstruction of the lower limb	Stritar
13.15-14.00	Surgery of peripheral nerves	Ahčan/Lapoša
14.15-15.00	Brachial plexus surgery	Rogelj

**DATE: Friday, 09.12.2019, location Stara travmatološka klinika**

<b><i>Schedule</i></b>	<b><i>Lecture title</i></b>	<b><i>Lecturer</i></b>
08.15-09.00	Wrist and hand injuries	Havliček
09.15-10.00	Spinal injuries	Simon Herman
10.15-11.00	Pelvic injuries	Cimerman
11.15-12.00	Hip and femoral injuries	Smrke
12.15-13.00	Knee injuries	Tomaž Malovrh
13.15-14.00	Foot and ankle injuries	Frangež
14.15-15.00	Polytrauma	Kristan

## **EXAMINATION - MUSCULOSKELETAL SYSTEM in the study year 2019/2020**

**PRACTICAL PART:** Exercise log for each participating student shall determine the practical skills that students must master. A test of skills (and maybe patient examination) can take place during the exercises and be confirmed by mentor's signature. Collected signatures of 10 days participation at Musculoskeletal System practice (6 days Orthopaedics, 3 days PRM, 1 day Trauma) and 80% attendance rate at lectures of Traumatology/Plastic Surgery (at least 19 out of 24 hours) are the prerequisite for taking the examination.

**WRITTEN EXAMINATION:** Written exam is conducted on Wednesday, one week after the completion of the course. Written examination contributes 80 points (out of 100) to the grade and comprises of: multiple choice test (50 points = 25 questions physical medicine and rehabilitation, 20 questions traumatology, 5 questions musculoskeletal radiology) and 3 essay questions on orthopedics (30 points). The prerequisite for a positive grade and the oral exam is to achieve at least 15 points in the field of orthopedics, at least 13 points PRM, at least 11 points in traumatology and at least 3 points in skeletal radiology.

**ORAL EXAMINATION:** Oral examination takes place the next day after the written examination at the Chair of Orthopaedics as scheduled. Oral examination is conducted by the examiners of the Chair of Orthopedics and contributes 20 points to the evaluation grade. At the end of the exam the student obtains the grade of Musculoskeletal System based on the number of points achieved:

<b>Number of points achieved</b>	<b>Grade</b>
92-100	Excellent 10
84-91	Very Good 9
76-83	Very Good 8
68-75	Good 7
60-67	Satisfactory 6
0-59	Insufficient 5

**REPEATING EXAMINATION / GRADE IMPROVEMENT:** Repeating examination or grade improvement can only be carried out after prior application for another examination date according to the regulations of the Faculty of Medicine. The examination may be repeated only in whole (written and oral), points scored with previous tests cannot be reused.

## **LITERATURE - TEXTBOOKS**

1. Hamblen DL, Simpson H: Adams's Outline of Orthopaedics 14th ed. Churchill Livingstone 2010.
2. Skinner HB: Current Diagnosis & Treatment in Orthopedics. Appleton & Lange 2013.
3. Staheli LT: Fundamentals of Pediatric Orthopedics. Lippincott-Raven 2008.
4. Andrew JG, Herrick AL, Marsh DR: Musculoskeletal Medicine and Surgery. Churchill Livingstone 2000.
5. McRae, Robert, Esser Max. Practical Fracture Treatment. ChurchLiv 2008  
Section A: 1-5; Section B: 6-15
6. White Book on Physical and Rehabilitation Medicine in Europe. Journal of Rehabilitation Medicine, 2007, Supplement No. 45
7. International Classification of Functioning, Disability and Health. WHO Geneva 2001.
8. Ceravolo MG, Christodoulou N. Physical and rehabilitation medicine for medical students. Edi.Ermes, Milano 2018 (available at the digital learning room of the Faculty of Medicine).
9. Michael P. Barnes, Anthony B. Ward. Oxford Handbook of Rehabilitation Medicine 2005. Oxford University Press.
10. Stam HJ, Buyruk HM et al. Acute Medical Rehabilitation Vol 1 Textbook. VitalMed Medical Book Publishing 2012.

## **MUSCULOSKELETAL SYSTEM EXAMINATION DATES**

18.12.2019 WRITTEN EXAMINATION (60 students)

19.12.2019 and 20.12.2019 ORAL EXAMINATION .

10.02.2020 WRITTEN EXAMINATION (30 students)

11.02.2020 and 12.02.2019 ORAL EXAMINATION .