



Course Regime

Course:	MUSCULOSKELETAL SYSTEM
Study Programme:	Medicine
Year of the Course:	4
Semester:	Winter & Summer
Course type:	Compulsory
Number of ECTS credits:	7
Lecturer(s):	prof. dr. Vane Antolič, doc. dr. Metka Moharić
Participating Organisational Units:	Chair of Orthopaedics UL-MF Chair of Physical Medicine and Rehabilitation UL-MF Chair of Surgery UL-MF Chair of Radiology UL-MF
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A. General part

1. Course objectives

Students learn about the most common diseases and injuries of the musculoskeletal system, they learn the anamnestic data acquisition and build investigation steps to the diagnosis of disease or injury. They learn emergency medical assistance in these diseases or injuries, the current methods of treatment and the possible future development of the method of treatment. The subject consists of musculoskeletal topographic anatomy review, physical and physiological basic musculoskeletal kinematics, description of musculoskeletal diseases and injuries, treatment options of musculoskeletal diseases and injuries, determination of the final status (disability) after disease or injury, prevention of musculoskeletal diseases or injuries. Above all, the students will be directed to holistic understanding of diseases and injuries by emphasizing the impact of diseases and injuries on the musculoskeletal system, the whole psycho-social organism and the impact of diseases outside of the musculoskeletal system on the locomotion.

2. Comprehensive outline of the course organisation

Lectures	Seminar	Clinical tutorial	Individual work	ECTS
45	16	46	105	7

Languages

Lectures: English language

Tutorial: English language

Prerequisites:

Student must be enrolled in 4th year of the uniform second-level master's program Medicine.

Content:

Subject consists of five subdivisions

1. Diseases of musculoskeletal system
2. Injuries of musculoskeletal system
3. Diseases and injuries of hand
4. Musculoskeletal physical medicine and rehabilitation
5. Skeletal radiology

Readings

Hamblen DL, Simpson H: Adams's Outline of Orthopaedics. Churchill Livingstone 2010.
Skinner HB: Current Diagnosis & Treatment in Orthopedics. Appleton & Lange 2013.
Staheli LT: Fundamentals of Pediatric Orthopedics. Lippincott-Raven 2008.
Andrew JG, Herrick AL, Marsh DR: Musculoskeletal Medicine and Surgery. ChurchLiv 2000
McRae, Robert, Esser Max. Practical Fracture Treatment. ChurchLiv 2008 Section A: 1-5;
Section B: 6-15
White Book on Physical and Rehabilitation Medicine in Europe. Journal of Rehabilitation Medicine, 2007, Supplement No. 45
International Classification of Functioning, Disability and Health. WHO Geneva 2001.
Michael P. Barnes, Anthony B. Ward. Oxford Handbook of Rehabilitation Medicine. Oxford University Press.
Stam HJ, Buyruk HM et al. Acute Medical Rehabilitation Vol 1 Textbook. VitalMed Medical Book Publishing 2012

Intended learning outcomes:

Knowledge and Understanding - With this knowledge the student will easier understand other diseases that also influence the musculoskeletal system and skin and understand the interactions of disease and injury and the development of diseases and injuries.

Use - The student will use the knowledge in clinical practice, mainly to demarcate the boundaries of what can the doctor can treat himself and when to refer to a specialist.

Reflection - With a large number of cases presented, the student will be able to critically evaluate descriptions of diseases in textbooks and to create his own base of experience.

Transferable skills - Pathways of solving (assessing) clinical cases.

Learning and teaching methods:

- mini symposia, lectures, seminar practice, bedside practice, case presentations
- clinical conferences, literature reports, practical work on models, theoretical solving
- work in outpatient department, operation theatre, practical workshops

3. Description of on-going assessment of knowledge and skills

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.

4. Required conditions for the final examination (Course Exam)

Collected signatures of 10 days' participation at Musculoskeletal System practice (6 days Orthopaedics, 3 days PRM, 1 day Trauma) are the prerequisite for taking the examination.

5. Final assessment and examination of knowledge and skills (Course Exam)

WRITTEN EXAMINATION: Written exam is conducted on Wednesday, one week after the completion of instruction at the Chair of Orthopaedics. 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.

Assessment:

	Weight (in %)
1. Written examination FRM (multiple choice questions)	25%
2. Written examination Traumatology (multiple choice questions)	20%
3. Written examination Skeletal radiology (multiple choice questions)	5%
4. Written examination Orthopaedics (essay questions)	30%
5. Oral examination Orthopaedics	<u>20%</u>
	100%

6. Other provisions

Number of points achieved	Grade
92-100	excellent 10
84-91	very good 9
76-83	very good 8
68-75	good 7
60-67	satisfactory 6
0-59	failure 5

7. **Fundamental study material and Supplement reading** is available at:
<https://www.mf.uni-lj.si/kort/razno>

8. **Exam topics, clinical presentations and skills** is available at:
<https://www.mf.uni-lj.si/kort/razno>

9. **Other information** is available at:
<https://www.mf.uni-lj.si/kort/razno>