

<b>PHYSICAL AND REHABILITATION MEDICINE</b>	
<b>GENERAL INFORMATION</b>	
Course coordinator	Assistant Professor Mira Kadojić, MD, PhD
Assistant/Associate	Mila Čaušić, MD Mirela Logara Pavličić, MD Mihaela Šolić, MD Barbara Sabrine Samardžija, MD
Study Programme	Integrated undergraduate and graduate university study of Medicine
Status of the course	Mandatory
Year of study, semester	5 <sup>th</sup> year, 9 <sup>th</sup> semester
ECTS	<b>2</b>
Workload (hours)	Lectures (30 ); Exercises (15 )
Expected number of students	70
<b>COURSE DESCRIPTION</b>	
<b>Course objectives</b>	
To acquaint students with the content and role of physical medicine and rehabilitation in the treatment of diseases and impairments of the musculoskeletal system, methods of physical diagnostics and prevention as well as treatment using physical agents. Emphasize the importance of assessing impairment and disability and the role of rehabilitation in restoring function and improving quality of life. Acquaint students with indications and contraindications and precautions in the application of physical therapy. Emphasize the importance of teamwork and a holistic approach to the patient in application of the principles of physical medicine and rehabilitation.	
<b>Enrolment requirements and entry competencies</b>	
Passed all exams of the previous years of study.	
<b>Learning outcomes at the Programme level</b>	
<b>1.1.,1.2.,2.1.,2.2.,2.3.,3.1.,3.2.,3.3.,3.5.,4.1.,4.2.</b>	
<b>Learning outcomes (5-10)</b>	
After attending lectures and participating in exercises, independent study and passing the exam, students will:	
<ol style="list-style-type: none"> <li>1. Acquire the skill of taking an anamnesis and clinical examination of the musculoskeletal system</li> <li>2. Know how to apply diagnostic methods to assess the function of the locomotor system</li> <li>3. Be able to explain the therapeutic effect of indications and contraindications for the application of certain physical therapy modalities</li> <li>4. Adopt the basic principles of pharmacological and non-pharmacological treatment of pain.</li> <li>5. Know how to recognize, determine diagnosis, treatment and rehabilitation in diseases of the musculoskeletal system</li> <li>6. Evaluate the role of teamwork in rehabilitation</li> <li>7. Explain the specifics of specialized rehabilitation programs in patients with neurological, orthopaedic and traumatological diseases and amputees.</li> <li>8. Explain the importance of early detection and neurorehabilitation of children with deviations from normal motor development</li> <li>9. Explain the role of orthopaedic aids in rehabilitation</li> <li>10. Understand the purpose and importance of an interdisciplinary approach in the treatment of diseases of the locomotor system</li> </ol>	

**Course content****Lectures**

Introduction to the subject, historical development and importance of physical medicine and rehabilitation. Teamwork in rehabilitation. Evaluation of the outcome of rehabilitation. Methods of physical therapy (electrotherapy, hydrotherapy, thermotherapy, medical gymnastics) and diagnostics. Examination of the musculoskeletal system. Treatment of musculoskeletal pain. Musculoskeletal diseases with special reference to pharmacological and non-pharmacological treatment and rehabilitation; low back pain, neck pain, osteoporosis, inflammatory and extra-articular rheumatic diseases. Principles of rehabilitation of people with neurological diseases (stroke, multiple sclerosis, neuromuscular diseases). Principles of rehabilitation in orthopaedic and trauma patients, Principles of rehabilitation of children with neurodevelopmental disorders. Principles of rehabilitation of amputees. The role and significance of orthopaedic aids in rehabilitation.

**Exercises****Mode of teaching**

Lectures; Clinical exercises

**Student obligations**

Students are expected to attend all class sessions, as well as to take all the examinations. However, they are allowed for excused absences, totalling 30% of all classes.

**Monitoring student work (*alignment of learning outcomes, teaching methods, and grading*)**

Teaching activity	ECTS	Learning outcome	Student activity	Assessment methods	Grade points	
					Min.	Max.
Class attendance	0,5	1-10	Presence at the class	Evidence sheet; evaluation	5	20
Exercises	0,5	1-10	Attendance and active participation in exercises	Diary of exercises	15	30
Oral exam	1,0	1-10	Learning for the oral exam	Grading of the oral exam	30	50
<b>Total</b>	<b>2</b>				<b>50</b>	<b>100</b>

*Evaluation of the final exam (essay)*

Student answer	Grade points
The answer meets the minimum criteria	30.0
The average answer with noticeable errors	37.0
The very good answer with minor errors	44.0
The exceptional answer	50.0

*Calculation of final grade:*

Based on the total sum of the points awarded during the course and the final exam, the final grade is determined according to the following distribution:

A – excellent (5): 90-100 grade points; B – very good (4): 70-79,99 grade points; C – good (3): 60-69,99 grade points; D – sufficient (2): 50-59,99 grade points

**Required reading (available in the library and through other media)**

Title	Number of copies in the library	Availability through other media
1. Đ.Babić-Naglić i sur., Fizikalna i rehabilitacijska medicina Medicinska naklada 2013.	10	

**Additional reading**

1. Fizikalna i rehabilitacijska medicina, Vol.27 No3-4,2015  
A.Bobinac Georgievski i sur. Fizikalna medicina i rehabilitacija u Hrvatskoj, Zagreb, 2000

**Course evaluation procedures**

Anonymous, quantitative, standardized student survey providing feedback on the course as well as on the work of course coordinators and their assistants/associates is being conducted by the QA Office of the Faculty of medicine Osijek.

**Note /Other**

E-learning does not count towards course contact hours, but is being used in teaching and comprises links to various web pages, as well as video and audio materials available on web pages.