

Faculty of Medicine / MEDICINE / PHYSICAL MEDICINE AND REHABILITATION

Course:	PHYSICAL MEDICINE AND REHABILITATION			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
11143	Mandatory	11	3	2+2+0
Programs	MEDICINE			
Prerequisites	None			
Aims	Acquaint students with the tasks and basic principles of physical medicine and rehabilitation through physical diagnostics, prevention and treatment, applying the protocol of timely habilitation and rehabilitation of people with disabilities and diseases			
Learning outcomes	Identify and explain the principles of rehabilitation methods Assess the impact of chronic disease and disability of the patient Differentiate basic rehabilitation groups of patients (after craniocerebral injury, with diseases of the musculoskeletal system, with spinal injuries, after limb amputations, children with developmental disabilities) Determine and evaluate the success of the rehabilitation procedure with measurements and specific questionnaires Determine indications for the use of rehabilitation therapy and recognize contraindications Perform and practice joint and spine mobility measurement and muscle strength assessment using measuring instruments			
Lecturer / Teaching assistant	Prof. dr Vesna Bokan Mirković			
Methodology	Lectures and exercises. Preparation for exercises. Small group work and consultations. Final test.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Competencies of physical medicine and rehabilitation. Physical medicine and rehabilitation and WHO-ICF concept.			
I week exercises	Acquaintance with work in outpatient and clinical organizational units for physical medicine and rehabilitation, patient assessment.			
II week lectures	Assessment in physical medicine and rehabilitation: clinical and functional evaluation, neurophysiology, ultrasonography, kinesiology, balance and gait testing (posturography, gait analysis).			
II week exercises	Mandatory elements of the physical examination.			
III week lectures	Main interventions in physical medicine and rehabilitation: information, education, medical treatments, physical medicine and rehabilitation programs.			
III week exercises	Establishing a rehabilitation diagnosis (damage, disability, handicap) based on clinical examination and history.			
IV week lectures	Main interventions in physical medicine and rehabilitation: physical modalities, therapeutic exercises, infiltration techniques.			
IV week exercises	Basics of practical application of physical modalities, therapeutic exercises and infiltration techniques.			
V week lectures	Main interventions in physical medicine and rehabilitation: orthoses, prostheses and aids.			
V week exercises	Basics of orthotic and prosthetic analysis.			
VI week lectures	Physical medicine and rehabilitation of orthopedic and musculoskeletal disorders: upper extremities and spine.			
VI week exercises	Components and methods of rehabilitation in orthopedic and musculoskeletal disorders of the upper extremities. Cervical syndrome.			
VII week lectures	Physical medicine and rehabilitation of orthopedic and musculoskeletal disorders: lower extremities and spine.			
VII week exercises	Components and methods of rehabilitation in orthopedic and musculoskeletal disorders of the lower extremities. Lumbar syndrome.			
VIII week lectures	Physical medicine and rehabilitation of orthopedic and musculoskeletal disorders: amputations.			
VIII week exercises	Getting to know the stages of rehabilitation of people with amputations.			
IX week lectures	Physical medicine and rehabilitation of patients after spinal cord injuries. Physical medicine and rehabilitation in craniocerebral injuries.			
IX week exercises	Rehabilitation of tetraplegia and paraplegia.			

X week lectures	Physical medicine and rehabilitation of patients after acute stroke.					
X week exercises	Assessment and rehabilitation program of patients after acute stroke. Medical rehabilitation of hemiplegia.					
XI week lectures	Physical medicine and rehabilitation in chronic neurological diseases.					
XI week exercises	Medical rehabilitation of patients with multiple sclerosis and parkinsonism.					
XII week lectures	Deformities in children.					
XII week exercises	Developmental deformities of the spine and chest. Torticollis. Birth trauma of the peripheral nervous system Foot deformities.					
XIII week lectures	Movement development in the first year of life, developmental disabilities and cerebral palsy.					
XIII week exercises	Physiatric treatment of developmental disabilities. Methods of treating cerebral palsy.					
XIV week lectures	Rehabilitation in traumatology.					
XIV week exercises	Medical rehabilitation of patients with musculoskeletal injuries and nerve lesions.					
XV week lectures	Cardiopulmonary rehabilitation. Oncological and geriatric rehabilitation.					
XV week exercises	Rehabilitation after myocardial infarction. Procedures in respiratory rehabilitation.					
Student workload	Load structure: 64 hours (classes and final exam) + 8 hours (preparation) + 18 hours (additional work)					
Per week			Per semester			
3 credits x 40/30=4 hours and 0 minuts 2 sat(a) theoretical classes 0 sat(a) practical classes 2 excercises 0 hour(s) i 0 minuts of independent work, including consultations			Classes and final exam: 4 hour(s) i 0 minuts x 16 =64 hour(s) i 0 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 4 hour(s) i 0 minuts x 2 =8 hour(s) i 0 minuts Total workload for the subject: 3 x 30=90 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 18 hour(s) i 0 minuts Workload structure: 64 hour(s) i 0 minuts (cources), 8 hour(s) i 0 minuts (preparation), 18 hour(s) i 0 minuts (additional work)			
Student obligations			Regular attendance at lectures and exercises, evaluation of the practical part of the exercises according to the clinical skills booklet, test, final exam.			
Consultations						
Literature			Basics of physical medicine and rehabilitation - textbook for medical students - Faculty of Medicine, University of Belgrade. Prof. Dr. Ivana Petronić.			
Examination methods						
Special remarks						
Comment						
Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points