

Faculty of Medicine / MEDICINE / NEUROLOGY

Course:	NEUROLOGY			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
902	Mandatory	8	6	3+3+0
Programs	MEDICINE			
Prerequisites	There are no conditions			
Aims	Introducing students to the discipline of neurology with a broad exposition of the basic elements related to implementation of diagnostics, treatment and care of neurological patients and basic concepts related to ethics, research and education in neuroscience.			
Learning outcomes	After completing the one-semester course in Neurology, the Medicine student should have the following learning outcomes: 1. Knows and understands the anatomy and functions of the central and peripheral of the nervous system related to their dysfunction. 2. Recognizes neurological diseases in clinical practice, has the knowledge to perform a clinical neurological examination. Knows diagnostic procedures in neurology. He knows the therapy of neurological diseases. 3. Knows primary and secondary prevention neurological diseases. 4. Recognizes urgent neurological conditions and has knowledge of how to care for them emergency neurological conditions. Knows differential diagnoses of disorders of consciousness and approach to patients without consciousness (in a coma). Knows the emergency situations in trauma of the central nervous system. 5. Understands quality of life in disabling neurological diseases.			
Lecturer / Teaching assistant	Prof. Slavica Vujisic, MD, PhD, dr Ljiljana Radulović, MD, PhD student, Dr Balsa Vujovic, MD, mr sc			
Methodology	Lectures, practical classes, seminars. Students will rotate through the inpatient and outpatient part of the clinic. They will have direct contact with the patient, classes next to the patients bed, simulations and physical review of teaching assistants and students within the seminar.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Introductory lecture. Consciousness and disorders of the state of consciousness. Developmental neurology.			
I week exercises	Getting to know neurological patients. Assessment of the state of consciousness. Demonstration of neurological examination as a whole-review			
II week lectures	Cranial nerve disorders.			
II week exercises	Overview of the first 6 cranial nerves			
III week lectures	Damage to certain lobes of the cerebrum. Damage to higher cortical functions			
III week exercises	Examination of the other 6 cranial nerves. Testing of higher cortical functions			
IV week lectures	Muscle and limb weakness - central and peripheral neuron. Sensory disorders and pain in neurology			
IV week exercises	Examination of the neck (meningeal signs), upper and lower extremities (trophy, tone, mobility, muscular reflexes, sinking tests, muscle strength, stretching tests). Recurrence of typical signs of the lesion central and peripheral motor neuron (through examination of patients with the same affection). Leather abs reflexes, r. cremastera, plantar response (Babinski).			
V week lectures	Damage and diseases of the spinal cord. Lesions of the autonomic nervous system. Cerebrospinal Fluid CSF			
V week exercises	Complete neurological examination. Check of myotatic reflexes.			
VI week lectures	Headaches. The first colloquium.			
VI week exercises	Self-examination of the patient-patients history, neurological examination. Assistant professor correction neurological examination.			
VII week lectures	Epilepsy.			
VII week exercises	EEG cabinet - EEG recording and EEG record.			
VIII week lectures	Sleep and sleep disorders. Dementia.			
VIII week exercises	Self-examination of the patient. Making an anatomical diagnosis.			
IX week lectures	Cerebrovascular diseases.			
IX week exercises	Independent examination of a patient with a stroke. Establishing a syndromic diagnosis			

X week lectures	Child neurology.					
X week exercises	Independent examination of the patient. Establishing a syndromic diagnosis. Examination of patients in coma. Differential diagnosis of comatose states. Examination of patients with cerebrovascular insult (ischemic stroke and hemorrhage). Visit to the emergency neurology department.					
XI week lectures	Brain tumors. Brain trauma. Infectious diseases of the central nervous system Second colloquium.					
XI week exercises	Independent examination of the patient. Establishing a syndromic diagnosis and etiological differential diagnosis					
XII week lectures	Demyelinating diseases. Liquor.					
XII week exercises	Examination of patients on their own, examination of patients with Multiple Sclerosis					
XIII week lectures	Extrapyramidal disorders. Parkinsons disease.					
XIII week exercises	Examination of patients independently, examination of patients with syndromic and differential diagnosis diagnosis. Gait disorder, differential diagnosis: spastic gait, with circumduction and paraparetic (scissors, "Littles gait"), ataxic, peroneal gait, heeling gait, parkinsons gait, waddling gait (ducky) gait... Presentation of patients with different diseases in which different gait impairments are present (DCO, CVI, MS, SCA, Parkinson, myopathy, polyneuropathy, LS radiculopathy).					
XIV week lectures	Diseases of peripheral nerves. Mononeuropathies, Polyneuropathies					
XIV week exercises	Examination of patients independently, examination of patients with syndromic and differential diagnosis diagnosis. Gait disorder, differential diagnosis: spastic gait, with circumduction and paraparetic (scissors, "Littles gait"), ataxic, peroneal gait, heeling gait, parkinsons gait, waddling gait (ducky) gait... Presentation of patients with different diseases in which different gait impairments are present (DCO, CVI, MS, SCA, Parkinson, myopathy, polyneuropathy, LS radiculopathy).					
XV week lectures	Muscle diseases, neuromuscular junctions.					
XV week exercises	Self-examination of the patient. Performance of the Prostigmine test. Electromyoneurography (EMNG).					
Student workload	Classes and final exam: (8 hours) x 16 = 128 hours Necessary preparations before the beginning of the semester (administration, registration, certification): (8 hours) x 2 = 16 hours Total workload for the course: 6 x 30 = 180 hours Load structure: 128 hours (classes and final exam) + 16 hours (preparation) + 36 hours (supplementary work)					
Per week		Per semester				
6 credits x 40/30=8 hours and 0 minuts 3 sat(a) theoretical classes 0 sat(a) practical classes 3 excercises 2 hour(s) i 0 minuts of independent work, including consultations		Classes and final exam: 8 hour(s) i 0 minuts x 16 =128 hour(s) i 0 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 8 hour(s) i 0 minuts x 2 =16 hour(s) i 0 minuts Total workload for the subject: 6 x 30=180 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) 36 hour(s) i 0 minuts Workload structure: 128 hour(s) i 0 minuts (cources), 16 hour(s) i 0 minuts (preparation), 36 hour(s) i 0 minuts (additional work)				
Student obligations		Attendance at lectures and exercises. Preparation of seminar papers.				
Consultations		Per week: 6 credits x 40/30=8 hours and 0 minutes 3 hour(s) of theoretical lecture 0 hour(s) of practical lecture 3 exercises 2 hour(s) and 0 minutes independent work, including consultations				
Literature		NEUROLOGY for medical students, editor Vladimir Kostić, publisher Faculty of Medicine in Belgrade, 2009. BASICS OF NEUROLOGICAL EXAMINATION, textbook for students. Editor: prof. Dr. Vladimir Kostid, Belgrade, Medicinski faculty in Belgrade, 2011. Adams and Vectors Principles of Neurology, 10e Allan H. Ropper, Martin A. Samuels, Joshua P. Klein				
Examination methods		Seminar 10 points, 2 colloquiums 20 points each, final oral exam 50 points Grade: A B C D E F Number of points: 90-100, 80-89, 70-79, 60-69, 50-59 < 50 A passed exam means a cumulative score of 50 points or more.				
Special remarks		The final practical exam is an elimination one, and it is not possible to take the final oral exam if the student does not know the neurological examination, syndromic diagnosis and examination plan.				
Comment		The final exam implies a knowledge check in terms of fulfilling the learning outcomes.				
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
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