Study program: Integrated academic studies in medicine			
Type and level of the study program: integrated academic studies			
Course title: Neurology (M4-NERO)			
Teacher: Ksenija E. Božić, Čongor L. Nađ, Tamara J. Rabi-Žikić, Ivana K. Divjak, Marija G. Žarkov, Mirjana N. Jovićević, Marija D. Semnic, Ksenija			
E. Gebauer-Bukurov, Aleksandar Š. Kopitović,			
Course status: compulsory			
ECTS Credits: 5			
Condition: Clinical propedeutics (exam); General pharmacology (exam)			
Course aim			
	hogenetic basis and clinical symptoms of common neurological disorders and		
The aim of this course is to provide medical students with knowledge on pathogenetic basis and clinical symptoms of common neurological disorders and their current neurological diagnostic procedures, treatment, and prognosis.			
Expected outcome of the course:			
Expected outcome of the course: The course provides students with a general understanding of symptoms and signs of disorders of different structures of the central nervous system,			
evaluation of the patient with neurological symptoms, how and when to suspect a neurological entity, perform an adequate diagnostic procedure and if			
necessary initiate a treatment. After completing the course the student should:			
- be able to carry out history-taking and a complete neurological examination of the patient and based on it			
<ul> <li>formulate a working (probable) diagnosis and indicate basic laboratory investigations;</li> </ul>			
- be familiar with basic principles of the management of urgent neurological conditions;			
- have an understanding of conditions that require referral to a neurology specialist (i.e. whether a condition requires in-patient investigation and			
treatment)			
Course description	Practical education: exercises, other forms of education, research related		
Theoretical education	activities		
1. Episodic disturbance of consciousness, coma, delirium. Sleep disorders	1. Neurological history taking		
2. Epilepsy and epileptic syndromes	2. Examination of cranial nerves I-VI		
3. Headache, neuralgia, vertigo	3. Examination of cranial nerves VII-XII		
4. Ischemic cerebrovascular disease	4. Examination of the neck, upper and lower limbs (nutrition, tonus,		
5. Hemorrhagic cerebrovascular disease and brain edema	movement, muscular reflexes, strength, stretching tests)		
6. Infectious disease of the CNS and neurological complications of	5. Examination of sensibility		
systemic disorders	<ol> <li>Extrapyramidal symptoms and signs</li> </ol>		
7. Dementias	7. Examination of cerebellar functions		
8. Leucodystrophies and metabolic disorders	8. Examination of higher cerebral functions		
9. Neurological aspects of CNS trauma and CNS tumors	9. Diagnostic procedures in neurology (EEG, video EEG, EMNG, EP, LP,		
10. Demyelinating diseases	CSF isoelectric focusing, ultrasonography, CT, MRI, PET, SPECT)		
11. Movement disorders and cerebellar disorders	10. Examination of a comatose patient		
12. Developmental neurology	11. Examination of a patient with myasthenia gravis		
13. Motor neuron disorders and polyneuropathies	12. Neurological examination of a pediatric patient		
14. Brainstem and spinal cord disorders	13. Gait disorders (differential diagnosis)		
15. Neuromuscular junction disorders and muscular disease	14. Headaches		
	15. Complete neurological examination of different neurological diseases,		
	differential diagnosis		
Literature			
Compulsory :			
1. Mumenthaler M, Mattle H. Fundamentals of neurology. Thieme, 2006.			
2. Gilman S. at al. Oxford american handbook of neurology. Oxford University Press, Inc. 2010.			
3. Westover MB. Pocket neurology. Lippincott Williams and Wilkins, 2016			
Additional:			
1. Adams RD, Victor M, Ropper AH. Principles of neurology. Mc Graw-Hill New York 1997 (2005,2009,2014)			
Number of active classes	Other:		
Lectures: Practice: Other types of teaching:	Research related activities:		
30 60			
Teaching methods: lectures, practice			

Student activity assessment (maximally 100 points)			
Pre-exam activities	points	Final exam	points
Lectures	5	Written	60
Practices	25	Oral	
Colloquium		Practical	10
Essay			