COURSE UNIT DESCRIPTION

Course unit title	Code
Neurology and neurosurgery for odontologists	

Lecturer(s)	Department(s)
Coordinating: K. Ryliškienė, assoc. prof. MD, PhD **Others:** D. Jatužis, prof., MD, PhD; S. Ročka, prof., MD, PhD; R. Mameniškienė, prof., MD, PhD; J. Valaikienė, assoc. prof., MD, PhD; R. Kizlaitienė, assoc. prof., MD, PhD; A.Vilionskis, assoc. prof. MD, PhD; R. Kaladytė Lokominienė, assist. prof. MD, PhD; A. Jasionis, assist. MD PhD; R. Masiliūnas, assist.MD PhD; E. Audronyte, j.assist. MD	Vilnius University, Faculty of Medicine, Clinic of Neurology and neurosurgery, Santariškių str. 2, Vilnius

Cycle	Level of the course unit	Type of the course unit
Integrated studies (cycle I and II)	-	Compulsory

Mode of delivery	Period of delivery	Language of instruction
Face-to-face: lectures in the auditory room; practical training at the department of neurology, in the labs of functional diagnostics.	Semester 6	English

Prerequisites and corequisites	
Prerequisites: A student must have completed the following courses: human anatomy, human physiology, pharmacology, pathology, general medicine propedeutics and fundamentals of nursing.	**Corequisites (if any):** no.

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
5 credits	134 hrs	51 hrs	83 hrs

Purpose of the course unit Programme competences to be developed		
Students must learn about the main neurological diseases and syndromes, principles of treatment. They must be able to recognise and assess the general and focal neurological clinical signs and symptoms, to evaluate the level of consciousness and mental state of the patient.		
Learning outcomes of the course unit	**Teaching and learning methods**	**Assessment methods**
Generic competences At the end of the study programme student will be able:		
to act fairly and according to ethical obligations; be emphatic; to think critically and self-critically; to be creative and take the initiative; to reach personal targets; to communicate with others	Practical training at the department of neurology, in the labs of functional diagnostics.	Continuous assessment of practical training at the department of neurology, in the labs of functional diagnostics.
Subject-specific competences At the end of the study programme student will be able:		

to take a history from the patient with neurological disease, to recognise and assess the general and focal neurological clinical signs and symptoms, to evaluate the level of consciousness and mental state of the patient, to assess the signs of meningeal irritation	Lectures and the analysis of clinical cases during practical training at the department of neurology, self-study work.	Continuous assessment of the analysis of clinical cases during practical training at the department of neurology, written work and examination.
to recognise and assess critical health conditions, to treat critical health conditions, to provide first aid, to resuscitate and support main life functions according to current European standards		
to know the main symptoms and principles of diagnosis and treatment of neurological disorders		

Topics	Contact work hours							Time and tasks of self-study	
	Lectures	Consultations	Seminars	Practice	Laboratory work	Practical training	**Total contact hours**	**Self-study**	**Tasks**
1. Clinical neurological examination: the level of consciousness, speech and language disorders.	1			2,5			**3,5**	**6**	Glasgow coma scale, dysarthria, aphasia.
2. Clinical neurological examination: Disorders of sensation.	1			2,5			**3,5**	**5**	Sensation disorders.
3. Clinical neurological examination: motor system and coordination.	1			2,5			**3,5**	**6**	Ccentral and peripheral paralysis, reflexes, types of ataxias.
4. Clinical neurological examination: cranial nerves.	2			2,5			**4,5**	**6**	Symptoms of impairment of cranial nerves.
5. Cerebrovascular disorders	1			2,5			**3,5**	**6**	Ischemic stroke, transient ischaemic attack classification, intracerebral and subarachnoid haemmorhage. Etiology, clinical symptoms, diagnostic evaluation, principles of treatment and prevention.
6. Infectious diseases of nervous system.	1			2,5			**3,5**	**6**	Meningitis, encephalitis, brain abscess: classification, symptoms, diagnostic evaluation, principles of treatment.
7. Epilepsy. Disturbances of consciousness.	1			2,5			**3,5**	**6**	Differential diagnosis of consciousness loss. Epilepsy: clinics, differential diagnosis, treatment. Symptomatic seizures.
8. Demyelinating disorders of central nervous system.	1			2,5			**3,5**	**6**	Multiple sclerosis: clinics, diagnostic evaluation, treatment.
9. Dementia and other cognitive disorders.	1			2,5			**3,5**	**6**	Alzheimer‘s disease, frontotemporal, vascular and Lewy body dementias. Clinical symptoms, diagnostic evaluation, principles of treatment.
10. Movement disorders.	1			2,5			**3,5**	**6**	Parkinson‘s disease. Essential tremor. Tics. Dystonias: hemifacial spasm, blepharospasm, spastic torticollis. Clinical symptoms, diagnostic evaluation, principles of treatment.

11. Disorders of peripheral nervous system and neuromuscular disorders.	1			2,5			**3,5**	**6**	Facial nerve neuropathy, radiculopathy, polyneuropathy, carpal tunnel syndrome, myasthenia gravis. Etiology, clinical symptoms, diagnostic evaluation, principles of treatment.
12. Head trauma and spine	1			2,5			**3,5**	**6**	Classification, clinical symptoms and principles of treatment of head trauma.
13. Vertigo and dizziness	1			2,5			**3,5**	**6**	Benign paroxysmal positional vertigo, meniere disease, vestibular neuritis.
14. Migraine and other headache disorders. Facial pain.	2			2,5			**4,5**	**6**	Migraine, tension-type headache, cluster headache. Secondary headache. Etiology, clinical symptoms, diagnostic evaluation, principles of treatment. TM pathology, trigeminal neuralgia and neuropathy, glossopharyngeal neuralgia, dental neuropathic pain, persistent idiopathic facial pain. Etiology, clinical symptoms, diagnostic evaluation, principles of treatment.
Total	**16**			**35**			**51**	**83**	

Assessment strategy	**Weight (%)**	**Assessment period**	**Assessment criteria**
Work during seminars: active participation, ppt presentations, evaluation of written work	50 %	During semester 6	The assessment is made on a 10-point scale after the seminar.
Written examination: 5 open-type questions (each ealuated in maximum 1.0 point), and 10 close-type questions, 3 of them multiple choice (each evaluated in maximum 0.5 point)	50 %	After course	The assessment is made on a 10-point scale after course.

Author	**Year of publication**	**Title**	**No of periodical or vol. of publication**	**Publication place and publisher or Internet link**
Required reading				
Manji H.	2014	Oxford handbook of neurology, 2 ed		Oxford University Press
Fuller G.	2013	Neurological examintation made easy		Churchill Livingstone Elsevier