



Syllabus 2017/2018														
Description of the course														
Module/Course	NEUROLOGY										Group of detailed education results			
											Group code	Group name		
											E	Clinical Sciences		
Faculty	Medicine													
Major	medicine													
Specialties	Not applicable													
Level of studies	Uniform magister studies X * 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies <input type="checkbox"/>													
Form of studies	X full-time X part-time													
Year of studies	V					Semester	X Winter X Summer							
Type of course	x obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / elective													
Course	<input type="checkbox"/> major X basic													
Language of instruction	<input type="checkbox"/> Polish X English <input type="checkbox"/> other													
* mark <input type="checkbox"/> with an X														
Number of hours														
Form of education														
Unit teaching the course	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Specialist Classes – magister studies (SCM)	Foreign language Course (ELC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)
Winter Semester														
Department of Neurology					30									
Summer Semester														
Department of Neurology	28				30									
TOTAL per year: 28 60														



Educational objectives (max. 6 items)

- 1). Getting students familiar with methodology of neurological examination, diagnostic procedures in central and peripheral nervous system diseases.
- 2). Getting students familiar with different groups of neurological disorders and therapeutic possibilities according to the newest scientific data.
- 3). Practical application of the theoretical knowledge.

Education result matrix for module/course in relation to verification methods of the intended education result and the type of class

Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class <i>**enter the abbreviation</i>
E.W.	E.W13	knows and differentiates the basic neurological syndromes knows and	Oral presentation, test, practical examination, theoretical examination (oral)	L, CC
	E.W14	understands causes, symptoms and signs, rules of diagnostic and therapeutic procedures in the most common neurological disorders: a). headaches: migraine, tension headache, others headaches, trigeminal neuralgia b). vascular disorders, mostly in stroke). epilepsy). infections of the nervous system, mostly meningitis, tick-born syndrome, herpetic encephalitis, transmissible spongiform encephalopathies). dementias, mostly in Alzheimer disease, frontal dementia, vascular dementia and others). basal ganglia disorders, mostly in Parkinson disease). demyelinating disorders, mostly in multiple sclerosis). neuromuscular disorders, mostly i amyotrophic lateral sclerosis and sciatic neuralgia). head injury, mostly in concussions.		
E.U.	E.U.1	Knows how to conduct the medical	Oral presentation, test, practical	CC



		interview in adult patient	examination, theoretical examination (oral)
E.U.3	Knows how to examine the adult patient		
E.U.7	Knows how to estimate the general status, state of consciousness, and awareness,		
E.U.30e	Assists the procedures: lumbar puncture		

** L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .

Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes:

Knowledge: 5

Skills: 5

Social competences: 5

Student's amount of work (balance of ECTS points)

Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	88
2. Student's own work (self-study):	99,6
Total student's workload	187,6
ECTS points for module/course	6,5
Comments	

Content of classes (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

Lectures

1. Structural basis of nervous system's function.
2. Developmental disorders of nervous system. Pyramidal syndromes.
3. Basis of neuropediatrics: cerebral palsy, hereditary disorders.
4. Frontal, temporal, occipital, and parietal lobes' lesions.
5. Extrapyramidal syndromes (parkinsonism, Huntington chorea, dystonia)
6. Headaches (migraine, tension-type headache), secondary headaches, brain tumors.
7. Vascular diseases of central nervous system
8. Dementia (Alzheimer disease, vascular dementia, secondary and reversible dementia).
9. Demyelinating disorders (multiple sclerosis – diagnosis, treatment).
10. Epilepsy – classification, types, treatment. Coma, brain death.
11. Neuromuscular and autonomic disorders: diagnosis, treatment.
12. Cognitive dysfunctions(aphasia, agnosia, apraxia).
13. Emotions, memory. Autonomic disfunction.



Seminars

- 1.
- 2.
- 3.

Practical classes

Winter semester:

1. Interview. Examination of head, cranial nerves I, II, III, IV and VI.
2. Examination of cranial nerves V, VII, VIII, cerebellopontine angle syndrome.
3. Examination of cranial nerves IX, X, XI, XII, bulbar and pseudobulbar syndromes
4. Examination of limbs and trunk, radicular and meningeal signs.
5. Cognitive impairment examination: aphasia, apraxia, agnosia. Examination of comatose patient, coma and brain death
6. Symptoms of central and peripheral motor pathway lesions, symptoms of spinal cord lesions: vertical and horizontal lesions, sensory pathway lesions.
7. Cerebellar and extrapyramidal symptoms
8. Neurodiagnostic procedures: neuroelectrophysiological procedures: EEG, EMG, EP, ENG, cerebrospinal fluid examination, radiological procedures: CT, MRI, fMRI, PET, SPECT, vascular investigations: doppler, angio-CT, angio-MR, neuropathological examination.

Summer semester:

1. Demyelinating diseases
2. Vascular diseases of CNS
3. Early and late head injury complications
4. Tumors of brain and spinal cord, headache.
5. Epilepsia, dementia, Alzheimer disease
6. CNS infections, AIDS - neurological complications
7. Neurodegenerative disorders: Parkinson disease, MSA
8. Peripheral nerve, plexus and root dysfunctions, myopathies, myasthenia gravis and myasthenic syndromes, practical examination

Other

- 1.
 - 2.
 - 3.
- etc. ...

Basic literature (list according to importance, no more than 3 items)

1. Weiner H. L., Levitt L. P.: Neurology, Williams and Wilkins, 2008,



2. Rowland L.P.: Merritt's Neurology, Lippincott William and Wilkins, 2005

Additional literature and other materials (no more than 3 items)

1. Bradley W.G.: Neurology in clinical practice. Butterworth Heinemann, 2003.
2. Hankey G.J., Wardlaw J.H.: Clinical Neurology. Blackwell Publishing, Manson Publishing 2002

Didactic resources requirements (e.g. laboratory, multimedia projector, other...)

Computer, multimedia projector

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

Credits for previous subjects

Conditions to receive credit for the course (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)

Participation in all classes (according to the student's rules), credit for the classes in the form of the practical examination, oral examination

Grade:	Criteria (only for courses/modules ending with an examination)
Very Good (5.0)	knows answers for all questions previously made available, with contents in courted textbooks and lectures, the knowledge is above-standard
Good Plus (4.5)	knowledge and skills as above, not very important shortages
Good (4.0)	knows the basic neurological issues, without ability to present extended knowledge
Satisfactory Plus (3.5)	knowledge is only basic, the interpretation of neurological phenomena is correct
Satisfactory (3.0)	minimal neurological knowledge without making a mistake of the basic neurological meaning

Name and address of module/course teaching unit, contact: telephone and e-mail address

Department of Neurology Wrocław Medical University, Borowska 213, 50-556 Wrocław,
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Coordinator / Person responsible for module/course, contact: telephone and e-mail address

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List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes.

- Małgorzata Bilińska, Prof., MD. PhD, neurology specialist, classes, lectures
- Magdalena Koszewicz MD, PhD – neurology specialist, classes, lectures
- Marta Nowakowska-Kotas, MD, PhD – neurology specialist specialist specjalista neurolog, classes,
- Anna Pokryszko-Dragan, MD, PhD - neurology specialist, classes, lectures
- Mieszko Zagrajek MD, PhD - neurology specialist, classes,
- Ewa Kozirowska-Gawron MD, PhD - neurology specialist, classes,
- Michał Paradowski MD, PhD- neurology specialist, classes,
- lek.med. Piotr Jurczyk, MD, classes,

Date of Syllabus development

Magdalena Koszewicz 05.03.2018

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Syllabus developed by

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SPECIALISTA NEUROLOGII

Signature of Head of teaching unit

5.03.2018

Uniwersytet Medyczny we Wrocławiu
KATEDRA NEUROLOGII
KLINIKA NEUROLOGII
kierownik

Signature of Faculty Dean

Wrocław Medical University
FACULTY OF MEDICINE
VICE-DEAN FOR STUDIES IN ENGLISH
Prof. Andrzej Hendrich
Prof. Andrzej Hendrich, PhD

dr hab. Sławomir Budrewicz, prof. nadzw.