Appendix 5
to Resolution No. 15630
of Senate of Wroclaw Medical University
of 30 March 2016

Syllabus 2018/2019

Description of the course

Module/Course Neurology	Neurology	**Group of detailed education results**	
		Group code E	**Group name** Non-Interventional Clinical science
Faculty	Medicine		
Major	medicine		
Specialties	Not applicable		
Level of studies	Uniform magister studies **X** * 1st degree studies □ 2nd degree studies □ 3rd degree studies □ postgraduate studies □		
Form of studies	**X** full-time **X** part-time		
Year of studies	V	**Semester**	X Winter X Summer
Type of course	X obligatory □ limited choice □ free choice / elective		
Course	□ major X basic		
Language of instruction	□ Polish **X** English □ other		

* mark □ 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 (FLC)	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:														
Department of Neurology	28				60									

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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 ***enter the abbreviation*
K 01	**E.W13**	knows and differentiates the basic neurological syndromes knows and	Oral presentation, test, practical examination, theoretical examination (oral)	L, CC
K02	**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.	Oral presentation, test, practical examination, theoretical examination (oral)	L, CC
S 01	**E.U.1**	Knows how to conduct the medical interview in adult patient	Oral presentation, practical examination	L, CC
S 02	**E.U.3**	Knows how to examine the adult patient	Oral presentation, practical examination	L, CC
S 03	**E.U.7**	Knows how to estimate the general status, state of conciousness, and awareness,	Oral presentation, practical examination	L, CC
S 04	**EU.30e**	Assists the procedures: lumbar puncture	Oral presentation, practical examination	L, CC

** 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

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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.- 2h
2. Developmental disorders of nervous system. Pyramidal syndromes. .- 2h
3. Basis of neuropediatrics: cerebral palsy, hereditary disorders. .- 2h
4. Frontal, temporal, occipital, and parietal lobes' lesions. .- 2h
5. Extrapyramidal syndromes (parkinsonism, Huntington chorea, dystania) .- 2h
6. Headaches (migraine, tension-type headache), secondary headaches, brain tumors. .- 2h
7. Vascular diseases of central nervous system.- 2h
8. Dementia (Alzheimer disease, vascular dementia, secondary and reversible dementia). .- 2h
9. Demyelinatiing disorders (multiple sclerosis – diagnosis, treatment). .- 2h
10. Epilepsy – classification, types, treatment. Coma, brain death. .- 2h
11. Neuromuscular and autonomic disorders: diagnosis, treatment. .- 2h 30min
12. Cognitive dysfunctions(aphasia, agnosia, apraxia). .- 2h 15 min
13. Emotions, memory. Autonomic disfunction. .- 2h 15min

Seminars

1.
2.
3.

Practical classes

Winter semester:

1. Interview. Examination of head, cranial nerves I, II, III, IV and VI.- 4h
2. Examination of cranial nerves V,VII, VIII, cerebellopontine angle sydrome. .- 4h
3. Examination of cranial nerves IX,X,XI,XII, bulbar and pseudobulbar syndromes.- 4h
4. Examination of limbs and trunk, radicular and meningeal signs. .- 4h
5. Cognitive impairment examination: aphasia, apraxia, agnosia. Examination of comotose patient, coma and brain death.- 4h
6. Symptoms of central and peripharal motorpathway lesions, symptoms of spinal cord lesions: vertical and horizontal lesions, sensory pathway lesions. .- 4h
7. Cerebellar and extrapyramidal symptoms.- 4h
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.- 2h

Summer semester:

1. Demyelinating diseases.- 4h
2. Vascular diseases of CNS -4h
3. Early and late head injury complications -2h
4. Tumors of brain and spinal cord, headache.- 4h
5. Epilepsia, dementia, Alzheimer disease - 4h

6. CNS inections, AIDS - neurological compications – 4h
7. Neurodegenerative disorders: Parkinson's disease, MSA – 4h
8. Peripheral nerve, plexus and root disfunctions, myopathies, myasthenia gravis and myasthenic syndromes, practical examination – 4h

Other

1.

2.

3.

etc. ...

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

1. Weiner H. L., Levitt L. P.: Neurology, William 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 Heinemenn, 2003.

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, criteria 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 med by the student to pass it and criteria for specific grades).

Each absence must be made up, including rector's days or dean's hours.

Participation in all classes (100%), credit for the classes in the form of the practical examination, oral examination. Each absence could be made up for the whole academic year during classes, and the teachers' duties.

Grade:	Criteria for course
Very Good (5.0)	knowledge and skills of neurological issues above-standard
Good Plus (4.5)	knowledge and skills as above, not very important shortages
Good (4.0)	knowledge and skills of basic neurological issues, without ability to present extended knowledge and skills
Satisfactory Plus (3.5)	knowledge and skills are only basic, the interpretation of neurological phenomena is correct
Satisfactory (3.0)	knowledge and skills are minimal without making a mistake of the basic neurological meaning

Grade:	Criteria for exam (if applicable)

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 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 of unit teaching course:	**Department of Neurology**
Address	**Borowska 213, 50-556 Wrocław**
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E-mail	**slawomir.budrewicz@umed.wroc.pl**

Person responsible for course:	**Prof. Sławomir Budrewicz**
Phone	**734 31 00**
E-mail	**slawomir.budrewicz@umed.wroc.pl**

List of persons conducting specific classes:	*degree/scientific or professional title*	*Discipline*	*Performer profession*	*Form of classes*
Anna Pokryszko-Dragan	MD, PhD, post-doctoral	neurology	physician	Lectures, clinical classes
Magdalena Koszewicz	MD, PhD, post-doctoral	neurology	physician	Lectures, clinical classes
Marta Nowakowska-Kotas	MD, PhD	neurology	physician	Lectures, clinical classes
Mieszko Zagrajek	MD, PhD	neurology	physician	Lectures, clinical classes
Ewa Koziorowska-Gawron	MD, PhD	neurology	physician	Lectures, clinical classes
Piotr Jurczyk	MD	neurology	physician	Lectures, clinical classes
Natalia Madetko	Graduate student	neurology	physician	Lectures, clinical classes

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IM. PIASTÓW ŚLĄSKICH WE WROCŁAWIU

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Date of Syllabus development

20.06.2018.

Uniwersytet Medyczny we Wrocławiu
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Syllabus developed by

dr hab. n. med.
Magdalena Koszewicz
ADIUNKT KLINIKA NEUROLOG

Magdalena Koszewicz

Signature of Head of teaching unit

Uniwersytet Medyczny we Wrocławiu
KATEDRA NEUROLOGII
KLINIKA NEUROLOGII
kierownik
dr hab. Sławomir Budrewicz, prof. nadzw.

Signature of Faculty Dean

Wroclaw Medical University
FACULTY OF MEDICINE
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Prof. Andrzej Hendrich, PhD