

Subject name Neurology	ECTS Code																
Name of unit teaching the subject THE ZBIGNIEW RELIGA FACULTY OF MEDICAL SCIENCES IN ZABRZE, THE UNIVERSITY OF TECHNOLOGY IN KATOWICE																	
Studies <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 25%;">Field of study</th> <th style="width: 25%;">degree</th> <th style="width: 25%;">mode</th> <th style="width: 25%;">major</th> <th style="width: 20%;">specialization</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">medical</td> <td style="text-align: center;">Uniform Master's</td> <td style="text-align: center;">stationary</td> <td></td> <td></td> </tr> </tbody> </table>		Field of study	degree	mode	major	specialization	medical	Uniform Master's	stationary								
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Surname of instructor (instructors)																	
Type of class, method of implementation and specified number of hours	Amount of ECTS points																
A. Type of class <ul style="list-style-type: none"> • lecture, • exercise classes, • clinical exercise classes • seminars, • design classes • laboratories, • lectureship, • diploma seminar, • professional internship.* <p>* mark where applicable</p>	Description of awarding ECTS points: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 70%;">Activity</th> <th style="width: 30%;">Student workload</th> </tr> </thead> <tbody> <tr> <td>Participation in lectures Semester 09 Semester 10</td> <td style="text-align: center;">15 hours 15hours</td> </tr> <tr> <td>Participation in practical classes Semester 09 Semester 10</td> <td style="text-align: center;">45 hours 45 hours</td> </tr> <tr> <td>Preparation for practical classes and colloquiums Semester 09 Semester 10</td> <td style="text-align: center;">5 hours 5 hours</td> </tr> <tr> <td>Examination preparation Semester 10</td> <td style="text-align: center;">10 hours</td> </tr> <tr> <td>Consultations Semester 09 Semester 10</td> <td style="text-align: center;">55 hours 55 hours</td> </tr> <tr> <td>Total number of hours</td> <td style="text-align: center;">150 hours / 35</td> </tr> <tr> <td>Amount of ECTS points per module</td> <td style="text-align: center;">5ECTS</td> </tr> </tbody> </table>	Activity	Student workload	Participation in lectures Semester 09 Semester 10	15 hours 15hours	Participation in practical classes Semester 09 Semester 10	45 hours 45 hours	Preparation for practical classes and colloquiums Semester 09 Semester 10	5 hours 5 hours	Examination preparation Semester 10	10 hours	Consultations Semester 09 Semester 10	55 hours 55 hours	Total number of hours	150 hours / 35	Amount of ECTS points per module	5ECTS
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B. Amount of hours in accordance with the approved curriculum 120h -semester 09 – 15h lecture +45h exercise classes -semester 10 = 15h lecture +45h exercise classes																	
Didactic cycle Semester 09 and semester 10																	
Subject status <ul style="list-style-type: none"> • mandatory / facultative 	Language of instruction Polish																
Didactic methods Lectures Demonstration of clinical cases Demonstration with the use of a computer Demonstrations with the use of a phantom Case analysis Situational method, staging	Forms and methods of passing and general grading criteria or examination requirements <hr style="border-top: 1px dashed black;"/> A. Method of passing <ul style="list-style-type: none"> • examination • passing with a grade* <p>* mark where applicable</p>																

<p>Didactic discussion Practical exercises at the patient's bedside Work with a computer in the hospital's intranet Review and analysis of examination results</p>	<p>B. Forms of passing:</p> <ul style="list-style-type: none"> • written examination: test / with open questions (exercises)/longer written statement • oral examination • oral assessment/colloquium • completion of a semester assignment: preparation of a design or presentation/conducting research and presenting its results(written/oral)/completion of a specified practical work • agreeing on a passing grade based on partial grades received during the course of the semester* <p>* mark where applicable</p> <hr/> <p>C. Basic grading criteria Evaluating participation in exercise classes, evaluating preparation for classes, constant observation, partial credit, oral, written, receiving credit for practical classes, oral examination</p>
<p>Definition of preparatory subjects and initial requirements</p> <ul style="list-style-type: none"> • familiarity with the anatomy and physiology of the nervous system • familiarity with neuroanatomy and neurophysiology • ability to take case history • ability to perform and internist examination and interpret it • familiarity with the scheme and way of conducting a neurological examination • interpretation of a neurological examination • familiarity with neurological syndromes 	
<p>Subject aim Familiarity with: scheme and way of conducting a neurological examination, interpreting an neurological examination, neurological syndromes, recognizing and treating neurological diseases, using diagnostic examinations in neurological diagnosis, characteristics and recognition of neurological diseases, treating neurological diseases. Acquiring the ability to prepare disease history and keeping patient records in the hospital ward</p>	
<p>Curriculum Neurology – introduction Vascular diseases of the nervous system Extrapyramidal symptoms, Parkinson's disease and other Parkinsonisms Extrapyramidal symptoms, non-motor symptoms of Parkinson's disease Dystonia, chorea Diseases in the form of dementia 1 Diseases in the form of dementia 2 Headaches – diagnosis Headaches – treatment Multiple sclerosis Treating multiple sclerosis Diseases of the peripheral nervous system Muscle disease and diseases of the neuromuscular junction Epilepsy Treating epilepsy</p> <p>Diagnosing multiple sclerosis Treating multiple sclerosis Diseases of the peripheral nervous system Headaches Neurological disorders in internist diseases Basis of neurorehabilitation Myasthenia gravis Disease of the motor neuron Cranial nerves and analyzers: visual, auditory, and olfactory Central and peripheral motor neuron- diagnosis Extrapyramidal system - diagnosis Balance and sensory disorders. Meningeal signs – diagnosis Examining and unconscious patient. Qualitative and quantitative disturbances of consciousness Disorders of higher nervous activities. Diagnosis of speech disorders</p>	

Diagnostic examinations in neurology
 Sudden life-threatening conditions
 Strokes
 Multiple sclerosis
 Parkinson's disease and other Parkinsonisms
 Alzheimer's diseases and other dementias
 Epilepsy
 Myasthenia gravis
 Guillain-Barre syndrome and other neuropathies

Physical examination and medical history taking of neurological patients
 Defining a neurological syndrome
 Differential diagnosis in neurology
 Using additional examinations in differential diagnosis
 Proposed schemes of treatment

Practical use of additional examinations
 Therapeutic possibilities in specific neurological disease
 Individual approach to a patient – preparing medical history

Literature

A. Literature required to receive a final credit for classes (pass an exam):

Podstawy Kliniczne Neurologii – R. Mazur, W. Kozubski
 Neurologia Kliniczna w zarysie – W. Jakimowicz
 Podemski R: Kompendium Neurologii. Gdańsk 2008

B. Supplementary literature

Neurologia – M. Mumenthaler (edited and translated by R. Podemski) NeurologiaKliniczna – Brain & Bannister
 Fuller G.: "Badanie Neurologiczne – to proste. Warszawa 2013

Educational effects:

Effect no	Description of an educational effect	Reference to field of study related effects
Knowledge:		
W1	Knows and can differentiate between the basic syndromes of neurological symptoms	E.W13
W2	Knows and understands the causes, principles of diagnosis and therapeutic treatment in the most common diseases of the central nervous system, including <ul style="list-style-type: none"> a) headaches, migraines, tension headache and headache syndromes, as well as trigeminal neuralgia b) vascular diseases of the brain, especially stroke c) epilepsy d) infections of the nervous system, especially meningitis, Lyme disease, herpesviral encephalitis, neurotransmitter diseases e) dementias, especially Alzheimer's disease, frontal dementia, vascular dementia and other dementia syndromes f) Diseases of the basal ganglia, especially Parkinson's disease g) Demyelinating diseases, especially multiple sclerosis h) Diseases of the neuromuscular system, especially amyotrophic lateral sclerosis, sciatica i) Craniocerebral injuries, especially concussions 	E.W14
W3	Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment of the most common children's diseases: <ul style="list-style-type: none"> • Cerebral palsy, encephalitis and meningitis, epilepsy 	E.W3

Abilities:		
U1	Conducts a medical interview with an adult patient	E.U1
U2	Conducts a full and targeted physical examination of an adult patient	E.U3
U3	Evaluates the general condition and state of consciousness and state of awareness of the patient	E.U7
U4	Conducts a differential diagnosis of the most common diseases of adults and children	E.U12
U5	Evaluates and describes the somatic and mental state of the patient	E.U13
U6	Recognizes direct life-threatening conditions	E.U14
U7	Plans diagnostic, therapeutic and preventive treatment	E.U16
U8	Conducts an analysis of possible harmful side effects of medications and the interactions between these medications	E.U17
U9	Suggests an individual approach to the therapeutic guidelines in force as well as other treatment methods in face of an unsuccessful or contradictory standard therapy	E.U18
U10	Qualifies a patient for home-based or hospital treatment	E.U20
U11	Assists with the following medical procedures and interventions: - Lumbar puncture	E.U30
U12	Can plan specialized consultations	E.U32
U13	Can interpret laboratory examination results interpret their deviations from the norm	E.U24
U14	Can keep a patient's medical documentation	E.U38

Social competencies:

K1	Recognizes his own diagnosis and treatment limitations, educational needs, plans his educational activities	
K2	Can work in a professional team, in a multi-cultural and multi-national environment	
K3	Implements principles of professional collegueship and collaboration with representatives of other professions as far as healthcare	
K4	Protects patient confidentiality and patient rights	

Methods used in the verification of educational effects

Educational effect	Type of grade				
	colloquiums	Solving problems during exercise classes	Solving problems in groups	Oral /practical examination	Written examination
W1	X	X		X	X
W2	X	X		X	X
W3	X	X		X	X
U1		X		X	X
U2		X		X	X
U3		X		X	X
U4		X		X	
U5		X		X	
U6		X		X	
U7		X		X	
U8		X		X	
U9		X		X	

U10		X		X	
U11		X		X	
U12		X		X	
U13		X		X	
U14		X		X	

The practical examination includes contact with patient as far as defining the causes, symptoms, principles of diagnosis and therapeutic treatment in case of the most common diseases of the central nervous system as well as conducting a neurological examination

Criteria of evaluating educational effects					
Educational effect	For a grade of 3	For a grade of 3.5	For a grade of 4	For a grade of 4.5	For a grade of 5
W1	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
W2	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
W3	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
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U2	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
U3	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
U4	Exhibits knowledge of the educational content on a	Exhibits knowledge of the educational content on a	Exhibits knowledge of the educational content on a	Exhibits knowledge of the educational content on a	Exhibits knowledge of the educational content on a level of 93%-100%

	educational content on a level of 60%-69%	educational content on a level of 70%-76%	educational content on a level of 77%-84%	educational content on a level of 85%-92%	
U14	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%