





TOTAL per year:												
Department of Human Morphology and Embryology Division of Anatomy		20										

Educational objectives (max. 6 items)  
**C1. Student knows the chosen clinical aspects of the human CNS structure .**  
**C2. Student knows and understands the modern methods of anatomical and clinical examination of CNS**  
**C3. Student can use the anatomical knowledge in purpose to evaluate patients normal neurological condition.**  
**C4. Student can recognize the normal results of the basic diagnostic examination of CNS.**

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>
<b>W1</b>	<b>A.W1</b>	He knows the nomenclature anatomical, histological and embryological in Polish and English in relation to the nervous system	active participation in the discussion about clinical problem	SE
<b>W2</b>	<b>A.W2</b>	He knows the structure of the nervous system and sensory organs in its topographical approach.	active participation in the discussion about clinical problem	SE
<b>U3</b>	<b>A.U3</b>	He explains the anatomical basis of neurological examination	active participation in the discussion about clinical problem	SE
<b>U4</b>	<b>A.U4</b>	He requests the relationships between anatomical structures of the nervous system on the basis of intravital diagnostic tests, in particular in the field of radiology (photos for reviews, studies using contrast agents, computed tomography and magnetic resonance imaging)	active participation in the discussion about clinical problem	SE
<b>U5</b>	<b>A.U5</b>	He uses in speech and writing anatomical, histological and embryological nomenclature in relation to the nervous system	active participation in the discussion about clinical problem	SE

\*\* 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: .3  
 Skills: 2.  
 Social competences:



Student's amount of work (balance of ECTS points)	
Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	20
2. Student's own work (self-study):	6
Total student's workload	26
ECTS points for module/course	1
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 not applicable	
Seminars (2 hours each) 1. Pre- and postnatal development of the central nervous system. Clinical problem: infantile cerebral palsy. 2. The cerebro-spinal fluid – secretion and circulation. Clinical problem: hydrocephalus 3. The lower motor neuron anatomy. Clinical problem: the flaccid paralysis. 4. The pyramidal system. Clinical problem: the spastic paralysis. 5. The brainstem anatomy. Clinical problem: decortication and decerebration syndromes. 6. The basal ganglia. Clinical problem: Parkinson disease. 7. The structure and connections of the cerebellum. Clinical problem: ataxia. 8. The somato-sensory pathways. Clinical problem: anatomical aspects of anesthesia and analgesia. 9. The cerebral cortex. Clinical problem: aphasia, agnosia, and apraxia. 10. The vascularization of the central nervous system. Clinical problem: the cerebral stroke, the medullary shock.	
Practical classes not applicable	
Other not applicable	
Basic literature (list according to importance, no more than 3 items) 1. James D. Fix; Neuroanatomy; Williams and Wilkins, latest edition, ISBN 0-683-03249-6 2. Paul A. Young. Basic Clinical Neuroanatomy. Publishing house: Williams and Wilkins. 3. M.J Turlough FitzGerald. Clinical Neuroanatomy and Neuroscience. Publishing house: Saunders Elsevier. Additional literature and other materials (no more than 3 items) 1. Any atlas of anatomy	
Didactic resources requirements (e.g. laboratory, multimedia projector, other...) 1. Natural and artificial anatomical specimens 2. Multimedial anatomical presentations	



**3. Intravital diagnostic images of CNS.**

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

**Completed Anatomy course on 1<sup>st</sup> year**

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)

**Attendance at least 90%.**  
**Passing the final test (MCQ – multiple choice question) on the level at least 66% possible points or optionally prepare the essay presented anatomical aspects of chosen clinical problems.**

<b>Grade:</b>	<b>Criteria</b> (only for courses/modules ending with an examination)
Very Good (5.0)	Level 91-100% points
Good Plus (4.5)	Level 86-90% points
Good (4.0)	Level 80-85% points
Satisfactory Plus (3.5)	Level 75-79% points
Satisfactory (3.0)	Level 66- 74% points

Name and address of module/course teaching unit, contact: telephone and e-mail address  
Medical University of Wrocław, Department of Human Morphology and Embryology  
Division of Anatomy  
50-368 Wrocław ul. T. Chałubińskiego 6a tel. 71/ 784-13-31, 784-00-79.  
E-mail: [marek.syrycki@umed.wroc.pl](mailto:marek.syrycki@umed.wroc.pl)

**Coordinator / Person responsible for module/course, contact: telephone and e-mail address**  
Marek Syrycki, PhD MD; senior lecturer

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

Marek Syrycki, PhD MD; senior lecturer

**Date of Syllabus development**

**Syllabus developed by**

...30.06.2018.....

... Marek Syrycki, PhD MD...

Uniwersytet Medyczny we Wrocławiu  
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p.o. kierownik  
*[Signature]*  
.....  
dr Zygmunt Domański

Signature of Faculty Dean  
Wrocław Medical University  
FACULTY OF MEDICINE  
VICE-DEAN FOR STUDIES IN ENGLISH  
*[Signature]*  
.....  
Prof. Andrzej Hendrich, PhD