





TOTAL per year:

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	
<b>Content of classes</b> (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)	
<b>Lectures</b> not applicable	
<b>Seminars</b> (2 hours each)	
<ol style="list-style-type: none"> <li>1. Pre- and postnatal development of the central nervous system. Clinical problem: infantile cerebral palsy.</li> <li>2. The cerebro-spinal fluid – secretion and circulation. Clinical problem: hydrocephalus</li> <li>3. The lower motor neuron anatomy. Clinical problem: the flaccid paralysis.</li> <li>4. The pyramidal system. Clinical problem: the spastic paralysis.</li> <li>5. The brainstem anatomy. Clinical problem: decortication and decerebration syndromes.</li> <li>6. The basal ganglia. Clinical problem: Parkinson disease.</li> <li>7. The structure and connections of the cerebellum. Clinical problem: ataxia.</li> <li>8. The somato-sensory pathways. Clinical problem: anatomical aspects of anesthesia and analgesia.</li> <li>9. The cerebral cortex. Clinical problem: aphasia, agnosia, and apraxia.</li> <li>10. The vascularization of the central nervous system. Clinical problem: the cerebral stroke, the medullary shock.</li> </ol>	
<b>Practical classes</b> not applicable	
<b>Other</b> not applicable	
<b>Basic literature</b> (list according to importance, no more than 3 items)	
<ol style="list-style-type: none"> <li>1. James D. Fix; Neuroanatomy; Williams and Wilkins, latest edition, ISBN 0-683-03249-6</li> <li>2. Paul A. Young. Basic Clinical Neuroanatomy. Publishing house: Williams and Wilkins.</li> <li>3. M.J Turlough FitzGerald. Clinical Neuroanatomy and Neuroscience. Publishing house: Saunders Elsevier.</li> </ol>	
<b>Additional literature and other materials</b> (no more than 3 items)	
<ol style="list-style-type: none"> <li>1. Any atlas of anatomy</li> </ol>	
<b>Didactic resources requirements</b> (e.g. laboratory, multimedia projector, other...)	
<ol style="list-style-type: none"> <li>1. Natural and artificial anatomical specimens</li> <li>2. Multimedial anatomical presentations</li> <li>3. Intravital diagnostic images of CNS.</li> </ol>	
<b>Preliminary conditions</b> (minimum requirements to be met by the student before starting the module/course)	



<b>Completed Anatomy course on 1<sup>st</sup> year</b>	
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%	
Demonstration of skills.	
<b>Grade:</b>	<b>Criteria</b> (only for courses/modules ending with an examination)
Very Good (5.0)	not applicable
Good Plus (4.5)	not applicable
Good (4.0)	not applicable
Satisfactory Plus (3.5)	not applicable
Satisfactory (3.0)	not applicable

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**

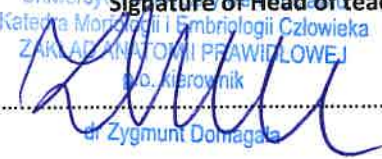
**Syllabus developed by**

...1.09.2017.....

... Marek Syrycki, PhD MD...

Signature of Faculty Dean

  
.....  
  
prof. dr hab. Andrzej Hendrich

Signature of Head of teaching unit  
Uniwersytet Medycyny we Wrocławiu  
Katedra Morfologii i Embriologii Człowieka  
ZAKŁAD ANATOMII PRAWIDŁOWEJ  
p.o. kierownik  
  
.....  
dr Zygmunt Domagała