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

Syllabus 2020/2021

Description of the course

Module/Course	Neurosurgery	Group of detailed education results	
		Group code F	Group name International clinical sciences
Faculty	medicine		
Major	medicine		
Specialties	not applicable		
Level of studies	Uniform magister studiesX 1st degree studies ☐ 2nd degree studies ☐ 3rd degree studies ☐ postgraduate studies ☐		
Form of studies	X full-time X part-time		
Year of studies	5	Semester	☐ Winter X Summer
Type of course	X obligatory ☐ limited choice ☐ free choice / elective		
Course	X major ☐ 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														

Summer Semester														
	19				16									
TOTAL per year:														
	19				16									

Educational objectives (max. 6 items)
C1. To familiarize students with the basic diseases of the nervous system which require surgery.
C2. Understanding the consequences of cranio-cerebral, spinal and peripheral nerves injuries.
C3. Umiejętność posługiwania się nowoczesnymi metodami diagnostyki obrazowej w schorzeniach centralnego układu nerwowego i kręgosłupa.
C4. Ability to use modern methods of diagnostic imaging in disorders of the central nervous system and spine.
C5. Understanding the principles of recognition of brain death.

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*
W 01 W02 W03 W04 W05	F.W.1 F.W.3 F.W.4 F.W.6 F.W16	1. Defines basic diseases of the nervous system 2. Defines the effects of cranio-cerebral and spinal column injuries 3. Describes the mechanisms of formation and progression and regression of diseases of the nervous system. 4. Defines basic indications for surgical treatment of diseases of the nervous system 5. Explains the basic methods and goals of surgical treatment	verbal response	CC
U 01 U02	F.U.20 F.U.21	1. Apply basic scales used in neurosurgery 2. Performs neurological examination of the patient 3. Uses modern methods of diagnostic imaging for the detection and differentiation of diseases and injuries. 4. Performs differential diagnosis of diseases of the nervous system 5. Performs examination of the unconscious patient 6. Eligible patients with traumatic injuries of the nervous system to the basic types of surgery Proszę sformułować ok. min 5- max 7 efektów	verbal response	CC

		kształcenia - przykładowe czasowniki określające efekt kształcenia w zakresie umiejętności: stosuje, wykonuje, rozwiązuje		

** 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: ...3.
Social competences: .....not applicable

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

Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	35
2. Student's own work (self-study):	8
Total student's workload	43
ECTS points for module/course	1,5
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.Introduction to Neurosurgery
2. Vascular diseases of the brain and spinal cord
3. Brain tumors
4. Hydrocephalus
5. Cranio-cerebral injuries
6. Injuries of the spine and spinal cord
7. Osteoarthritis of the spine
9. Neuronal regeneration in the central and peripheral nervous system.

Seminars
1.

Practical classes
1.Introduction to Neurosurgery
2. Vascular diseases of the brain and spinal cord
3. Brain tumors
4. Hydrocephalus

5. Cranio-cerebral injuries
6. Injuries of the spine and spinal cord
7. Osteoarthritis of the spine
8. Neuronal regeneration in the central and peripheral nervous system.

Other
1.

Basic literature (list according to importance, no more than 3 items)
1..K.W. Lindsay, Neurology and neurosurgery
2. M. Schirmer, Neurosurgery

Additional literature and other materials (no more than 3 items)
1.
2.
3.

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

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)
Knowledge of general examination of the patient
- Knowledge of neurological examination of the patient
- Basic knowledge of the consequences of injuries, including the types of wounds, types of bone fractures
- Basic knowledge of treatment of traumatic injuries including wounds and bone fractures.

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

performance meets the minimum criteria

- knowledge and practical conduct a neurological examination of the conscious and unconscious patient ,
- knowledge of basic neurological syndromes seen in neurosurgery;
- knowledge and ability to identify acute risks to health and life in neurosurgery (increased intracranial pressure, herniations of the brain, subarachnoid hemorrhage, secondary spinal cord injury, etc .;
- knowledge of the basic method of treatment in acute life-threatening conditions in neurosurgery;
- knowledge of diagnostic methods used in neurosurgery;
- basic knowledge of the diagnosis and differentiation of diseases treated neurosurgically;
- knowledge of basic techniques of surgery in neurosurgery (trepanation, craniotomy, craniectomy, laminectomy, laminotomy, fenestration, corpectmy, etc.)

Grade:	**Criteria** (only for courses/modules ending with an examination)
Very Good	

(5.0)	
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	

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

Katedra i Klinika Neurochirurgii

Uniwersytecki Szpital Kliniczny we Wrocławiu

50-5567 Wrocław, ul. Borowska 213

Tel. 71 734 34 00

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Coordinator / Person responsible for module/course, contact: telephone and e-mail address

dr hab. Paweł Tabakow – tel. 71 734 34 00, e-mail: .....

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

prof. hab. Wojciech Lesław Zub– neurosurgery spacialist, lectures, classes

dr n. med. Wojciech Fortuna– neurosurgery spacialist, lectures, classes

dr n. med. Artur Weiser – neurosurgery spacialist, lectures, classes

dr Krzysztof Chmielak – neurosurgery spacialist, lectures, classes

dr n. med. Rafał Załuski – neurosurgery spacialist, lectures, classes

dr Maciej Miś – neurosurgery spacialist, lectures, classes

dr Przemysław Błałuciak – neurosurgery resident, lectures, classes

dr Katarzyna Smarzewska – neurosurgery resident, lectures, classes

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UNIWERSYTET MEDYCZNY
IM. PIASTÓW ŚLĄSKICH WE WROCŁAWIU

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

Date of Syllabus development

2018-06-24

Syllabus developed by

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Signature of Head of teaching unit

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Kierownik Katedry i Kliniki Neurochirurgii
Uniwersytetu Medycznego we Wrocławiu

dr hab. n. med. Paweł Tabakow

Signature of Faculty Dean

.....

prof. Beata [illegible], PhD