



Syllabus for academic year: 2021/2022 Training cycle: 2016/2017 – 2021/2022														
Description of the course														
Course	Practical Clinical Teaching – chosen specialty: Radiology and Diagnostic Imaging										Group of detailed education results			
											Group code (E or F)	Group name		
											F	INTERVENTIONAL CLINICAL SCIENCES		
Faculty	Faculty of Medicine													
Major	medicine													
Level of studies	X uniform magister studies													
Form of studies	X full-time													
Year of studies	VI										Semester:	X summer (April/May)		
Type of course	X obligatory													
Language of study	X English													
Number of hours														
Form of education														
	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)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)	
Summer semester:														
Department of Radiology (Dep. in charge of the course)														
Direct (contact) education					180									
Distance learning														
Educational objectives (max. 6 items)														
<p>C1. Gaining the practical knowledge on workflow in radiological laboratories (X-ray, ultrasound, CT, MRI and endovascular departments)</p> <p>C2. Gaining the practical knowledge on everyday work of radiologists in different radiological departments (X-ray, ultrasound, CT, MRI and endovascular departments)</p> <p>C3. Gaining the practical knowledge on strategy of diagnostic imaging in different diseases and health conditions.</p> <p>C4. Gaining the ability to evaluate and interpret basic imaging studies.</p> <p>C5. Development of social competences needed to practice the medical profession, in accordance with graduate's profile.</p>														



Education result for course in relation to verification methods of the intended education result and the type of class:			
Number of detailed education result	Student who completes the course knows/is able to	Methods of verification of intended education results	Form of didactic class <i>*enter the abbreviation</i>
E.U.5	Is able to identify normal and pathological structures and organs on imaging studies using X-ray, CT and ultrasound	SHOW	CC
E.U.12	Is able to perform differential diagnosis of the most common diseases of adults and children (on the basis of the results of X-ray, ultrasound and CT studies).	SHOW	CC
E.U.14	Is able to recognize life threatening conditions (in emergency X-ray, ultrasound and CT studies)	SHOW	CC
E.U.16	Is able to plan diagnostic process (knows the strategy of diagnostic imaging in the most common pathologies)	SHOW	CC
F.U.7	Evaluates and interprets the most common bone fractures on radiograms	SHOW	CC
* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning			
Student's amount of work (balance of ECTS points):			
Student's workload (class participation, activity, preparation, etc.)		Student Workload	
1. Number of hours of direct contact:		180	
2. Number of hours of distance learning:		n/a	
3. Number of hours of student's own work:		90	
4. Number of hours of directed self-study		n/a	
Total student's workload		270	
ECTS points for course		12,0	
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)			
<p>Classes</p> <p>Practical classes</p> <p>Panel of clinical classes in X-ray imaging – 60 hrs</p> <ol style="list-style-type: none"> 1. Diagnostic imaging of chest pathologies – part 1 2. Diagnostic imaging of chest pathologies – part 2 3. Diagnostic imaging of pathologies of the abdomen 4. Diagnostic imaging of pathologies of the musculo- skeletal system – part 1 5. Diagnostic imaging of pathologies of the musculo-skeletal system – part 2 6. Diagnostic imaging of pathologies of the urinary tract 7. Emergency chest radiogram 8. Emergency bones and joints radiograms – part 1 9. Emergency bones and joints radiograms – part 2 10. Emergency radiograms of the abdomen 			



Panel of clinical classes in ultrasound – 30 hrs

11. Ultrasound of the abdomen and pelvis – part 1
12. Ultrasound of the abdomen and pelvis – part 2
13. Emergency ultrasound of the abdomen and pelvis – part 1
14. Emergency ultrasound examinations of other parts of the body
15. FAST ultrasound in emergency settings.

Panel of clinical classes in CT imaging – 60 hrs

16. Emergency CT of the head
17. Emergency CT of the chest
18. Emergency CT of the abdomen and pelvis
19. Emergency CT angiography
20. Emergency CT of the whole body
21. CT of the brain
22. CT of the head and neck
23. CT of the chest
24. CT imaging in oncology
25. CT angiographies of the arterial system

Panel of clinical classes in MR imaging – 18 hrs

26. MRI of the brain
27. MRI of the spine
28. MRI of other organs and parts of the body

Panel of clinical classes in interventional radiology – 12 hrs

29. Neurointerventional procedures
30. Other procedures of interventional radiology

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

Not applicable

Conditions to receive credit for the course: (specify the form and conditions of receiving credit for classes included in the 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)

Attention! Attendance can not be a condition for passing the course

Each student is obliged to make up all missed classes by joining to a different student group. If this is not possible he or she should prepare a PowerPoint presentation on the topic chosen by his/her teacher. The same works for all rector's days or dean's hours

Grade:	Criteria for courses ending with a grade ¹
Very Good (5.0)	min 95% of positive answers in the oral credit
Good Above (4.5)	min 85% of positive answers in the oral credit
Good (4.0)	min. 75% of positive answers in the oral credit
Satisfactory Plus (3.5)	min.65% of positive answers in the oral credit
Satisfactory (3.0)	min. 55% of positive answers in the oral credit

¹ The verification must cover all education results, which are realized in all form of classes within the course



Department in charge of the course:	DEPARTMENT OF RADIOLOGY
Department address:	BOROWSKA 213, 50-556 WROCLAW
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Person in charge for the course:	PROF. DR HAB. MAREK SAŚIADEK
Telephone:	71 733 16 68
E-Mail:	marek.sasiadek@umw.edu.pl

List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
ANNA ZIMNY	DR HAB. N. MED., PROF. UCZELNI	Medical science	ACADEMIC TEACHER	CC
JOANNA BLADOWSKA	PROF. DR HAB.	Medical science	ACADEMIC TEACHER	CC
MACIEJ GUZIŃSKI	DR HAB. N. MED.	Medical science	ACADEMIC TEACHER	CC
PRZEMYSŁAW PODGÓRSKI	LEK. N. MED.	Medical science	ACADEMIC TEACHER	CC
ŁUKASZ WASZCZUK	DR N. MED.	Medical science	ACADEMIC TEACHER	CC
JAGODA JACKÓW - NOWICKA	DR. N. MED.		ACADEMIC TEACHER	CC
DĄBRÓWKA SOKOŁOWSKA-DĄBEK	DR N. MED.		ACADEMIC TEACHER	CC
ANNA ZACHARZEWSKA- GONDEK	DR. N. MED.	Medical science	ACADEMIC TEACHER	CC
MAŁGORZATA NESKA- MATUSZEWSKA	DR N. MED		ACADEMIC TEACHER	CC
ALINA FERBER	DR N.MED.		ACADEMIC TEACHER	CC

Date of Syllabus development

.....30.06.2021r.....

Syllabus developed by

.....dr hab. n. med. Anna Zimny, Prof. Uczelni.....

Signature of Head of teaching unit
Uniwersytet Medyczny we Wrocławiu
KATEDRA RADIOLOGII
kierownik

prof. dr hab. Marek Sasiadek

Signature of Faculty Dean

Wrocław Medical University
Faculty of Medicine
Vice-Dean for English Studies
prof. Beata S. Maszczyńska, PhD