



Syllabus, academic year 2018/2019

Description of the course

Course Name:	Practical Clinical Teaching – chosen specialty: RADIOLOGY	Group of detailed education results	
		Group code (E or F): F	Group name: Clinical Sciences – Non-surgical Clinical Sciences surgical
Faculty	Medicine		
Major	Medicine		
Specialties	not applicable		
Level of studies	X Uniform magister studies		
Form of studies	X full-time X part-time		
Year of studies:	VI	Semester:	X summer (april/may)
Type of course	X obligatory		
Course	X major		
Language of instruction	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> English <input type="checkbox"/> 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 – master studies (SCM)	Foreign language Course (FLC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work) (SS)	E-learning (EL)
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Winter semester:

Not applicable					Not applicable									
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Summer semester:

DEPARTMENT OF RADIOLOGY					180									
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Total per year:

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Educational objectives: (max. 6 items)

- C1. Gaining the practical knowledge on workflow in radiological laboratories (X-ray, ultrasound, CT, MRI and endovascular departments)
- C2. Gaining the practical knowledge on everyday work of radiologists in different radiological departments (X-ray, ultrasound, CT, MRI and endovascular departments)
- C3. Gaining the practical knowledge on strategy of diagnostic imaging in different diseases and health conditions.
- C4. Gaining the ability to evaluate and interpret basic imaging studies.

Education results matrix for 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 (E or F group)	Student who completes the course knows/ is able to Please enter from 5 to max. 7 education results – examples of verbs defining the education result in the scope of student's knowledge: uses, performs, resolves	Methods of verification of intended education results (forming and summarising)	Form of didactic class ** enter the abbreviation
S 01	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
S 02	E.U.14	Is able to recognize life threatening conditions (in emergency X-ray, ultrasound and CT studies)	SHOW	CC



S 03	E.U.16	Is able to plan diagnostic process (knows the strategy of diagnostic imaging in the most common pathologies)	SHOW	CC
S 04	F.U.7	Evaluates and interpretes the most common bone fractures on radiograms	SHOW	CC
S 05	E.U.5	Is able to identify normal and pathological structures and organs on imaging studies using X-ray, CT and ultrasound	SHOW	CC

\*\* L - lecture; SE - seminar; AC - auditorium classes; MC - major classes (non-clinical); CC - clinical classes; LC - laboratory classes; SCM - specialist classes (master 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:

Skills: 5

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

Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	180
2. Student's own work (self-study):	90
Total student's workload	270
ECTS points for course	10,0
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 – not applicable**

**Classes**

**Panel of clinical classes in X-ray imaging – 60 hrs**

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

**Other - etc....**

**Basic literature:** (list according to importance, no more than 3 items)

- 1. William Herring. Learning radiology – recognizing the basics – Elsevier 2012 (second edition)

**Additional literature and other materials:** (no more than 3 items)

Not applicable

**Didactic resources requirements:** (e.g. laboratory, multimedia projektor, other...)

Not applicable

**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, criteria 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).

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 course
Very Good (5.0)	min 85% of positive answers in the oral credit
Good Plus (4.5)	min 80% of positive answers in the oral credit
Good (4.0)	min. 75% of positive answers in the oral credit
Satisfactory Plus (3.5)	min.70% of positive answers in the oral credit
Satisfactory (3.0)	min. 60% of positive answers in the oral credit

Grade:	Criteria: (only for courses/module ending with an examination)
Very good (5,0)	min 85% of positive answers in the test
Above good (4,5)	min 80% of positive answers in the test
Good (4,0)	min. 75% of positive answers in the test
Sufficiently good (3,5)	min.70% of positive answers in the test
Sufficient (3,0)	min. 60% of positive answers in the test



List of persons conducting specific classes	Degree/scientific or professional title	Discipline	Performer profession	Form of classes
ANNA ZIMNY	DR HAB.	RADIOLOGY	physician/adiunkt	CC
JOANNA BLADOWSKA	PROF. NADZW.	RADIOLOGY	physician/adiunkt	CC
MACIEJ GUZIŃSKI	DR N. MED.	RADIOLOGY	physician/adiunkt	CC
JACEK KURCZ	DR N. MED.	RADIOLOGY	physician/adiunkt	CC
PRZEMYSŁAW PODGÓRSKI	LEK.	RADIOLOGY	physician/asystent	CC
ANNA KOŁTOWSKA	DR N. MED.	RADIOLOGY	physician/adiunkt	CC
MICHAŁ WOLAŃCZYK	DR N. .MED.	RADIOLOGY	physician/adiunkt	CC
ANNA CZARNECKA	DR N. MED.	RADIOLOGY	physician/adiunkt	CC
AGATA SZCZUROWSKA	DOKTORANTKA	RADIOLOGY	physician/doktorant	CC
MAŁGORZATA MILNEROWICZ	DOKTORANTKA	RADIOLOGY	physician/doktorant	CC
JAGODA JACKÓW	DOKTORANTKA	RADIOLOGY	physician/doktorant	CC
ALEKSANDRA RUBIN	DOKTORANTKA	RADIOLOGY	physician/doktorant	CC
KRZYSZTOF MIĘDZYBRODZKI	DR N. MED.	RADIOLOGY	physician/adiunkt	CC
DĄBRÓWKA SOKOŁOWSKA-DĄBEK	DR N. MED.	RADIOLOGY	physician/adiunkt	CC
ANNA ZACHARZEWSKA-GADEK	DOKTORANTKA	RADIOLOGY	physician/doktorant	CC
MATEUSZ ŁASECKI	DOKTORANT	RADIOLOGY	physician/doktorant	CC
MATEUSZ PATYK	DOKTORANT	RADIOLOGY	physician/doktorant	CC

Name of unit teaching course:	Department of Radiology
Address	BOROWSKA 213, 50-556 WROCLAW
Phone	71 733 16 68
E-mail	wk-27@umed.wroc.pl

Person responsible for course:	Prof. dr hab. Marek Sasiadek
Phone	71 733 16 68
E-mail	marek.sasiadek@umed.wroc.pl

Date of Syllabus development

03.07.2018 r.

Syllabus developer by

...dr hab. ANNA ZIMNY.....

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

DEAN FOR STUDIES IN ENGLISH

Prof. Andrzej Hendrich, PhD