



Syllabus for academic year: 2021/2022 Training cycle: ...2018/2019-2023/2024...														
Description of the course														
Course	RADIOLOGY AND DIAGNOSTIC IMAGING										Group of detailed education results			
											Group code F	Group name APPLICABLE CLINICAL SCIENCES (surgical)		
Faculty	Faculty of Medicine													
Major	medicine													
Level of studies	X uniform magister studies													
Form of studies	X full-time													
Year of studies	IV										Semester:	X summer		
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														
Direct (contact) education					60									
Distance learning	20													
<b>Educational objectives (max. 6 items)</b>  C1. To get acquainted with the specificity of X-ray, ultrasound, CT and MR laboratories C2. To gain basic knowledge regarding conventional diagnostic imaging using X-ray and ultrasonography C3. To gain basic knowledge regarding diagnostic imaging using new methods such as CT and MRI C4. To gain basic knowledge regarding interventional radiology C5. Development of social competences needed to practice the medical profession, in accordance with graduate's profile.														



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>
F.W1.	the causes, symptoms, principles of diagnosis and therapeutic management of the most common diseases requiring surgical intervention, taking into account the specificity of child's age, including in particular: <ol style="list-style-type: none"><li>1) acute and chronic abdominal diseases,</li><li>2) thoracic diseases,</li><li>3) diseases of the limbs and head,</li><li>4) bone fractures and organ injuries;</li></ol>	CREDIT TEST  WRITTEN EXAMINATION (TEST)	L/CC
F.W2.	the selected issues in paediatric surgery, including traumatology and otorhinolaryngology, as well as defects and acquired diseases that are indications for surgical treatment in children;	CREDIT TEST  WRITTEN EXAMINATION (TEST)	L/CC
F.W3.	the principles of qualification for basic surgical procedures and invasive diagnostic and therapeutic procedures, the principles of their performance and the most frequent complications;	CREDIT TEST  WRITTEN EXAMINATION (TEST)	L/CC
F.W10.	the issues surrounding the use of contemporary imaging examinations, in particular: <ol style="list-style-type: none"><li>1) the radiological symptomatology of the principal diseases,</li><li>2) the instrumental methods and imaging techniques used to perform medical procedures,</li><li>3) the indications, contraindications and preparation of the patient for particular types of imaging examination and contraindications to the use of contrast agents;</li></ol>	CREDIT TEST  WRITTEN EXAMINATION (TEST)	L/CC
F.W12.	the issues in the field of laryngology, phoniatrics and audiology, including: <ol style="list-style-type: none"><li>1) the causes, clinical course, treatment methods, complications and prognosis of diseases of the ear, nose, paranasal sinuses, oral cavity, pharynx and larynx,</li><li>2) diseases of the facial nerve and selected neck structures,</li><li>3) the principles of diagnostic and therapeutic management of mechanical injuries to the ear, nose, larynx and oesophagus,</li><li>4) principles of emergency management in otorhinolaryngology, especially laryngeal dyspnoea,</li><li>5) the principles of diagnostic and therapeutic management of hearing, voice and speech</li></ol>	CREDIT TEST  WRITTEN EXAMINATION (TEST)	L/CC



	disorders, 6) the principles of diagnostic and therapeutic management of head and neck cancer;		
F.W13.	the causes symptoms, principles of diagnosis and 1) cerebral oedema and its sequelae, with particular reference to emergencies, 2) other forms of intracranial constriction with their consequences, 3) craniocerebral trauma, 4) vascular defects of the central nervous system, 5) tumours of the central nervous system, 6) diseases of the spine and spinal cord;	CREDIT TEST  WRITTEN EXAMINATION (TEST)	L/CC
E.U38.	maintain patient medical records	SHOW	CC
F.U7.	assess the radiographic findings for the most common types of fracture, particularly long bone fractures;	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:	60
2. Number of hours of distance learning:	20
3. Number of hours of student's own work:	126
4. Number of hours of directed self-study	n/a
Total student's workload	206
ECTS points for course	6,5

**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**

- Introduction to diagnostic imaging
- Chest part I
- Chest part II
- Heart, large vessels, mediastinum
- Alimentary system and abdomen
- Urinary system
- Vessels, Interventional radiology
- Neuroradiology
- Musculoskeletal system part I
- Musculoskeletal system part II

**CLASSES:**

- Demonstration of the equipment in the radiology department, physical background of imaging methods, contrast media. Demonstration of X-rays, CT, ultrasonography and MR equipment in the radiology department
- Chest part 1

- Chest part 2
- Chest part 3
- Alimentary tract
- Abdomen
- Urinary system
- Neuroradiology
- Musculoskeletal system part 1
- Musculoskeletal system part 2
- Pelvis, breast
- Interventional radiology. Cardiovascular imaging
- Medical Simulation Centre
- Medical Simulation Centre
- Credit

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

1. William Herring. Learning radiology – recognizing the basics – Elsevier 2019 (4th edition)
2. Radiology Fundamentals - Introduction to Imaging & Technology - Springer 2020 (6<sup>th</sup> edition)

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

1. Basic knowledge of human anatomy and pathology
2. Basic knowledge of physics (types of radiation)

**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.

Conditions to receive credit for the course: positive grade from the credit test during classes which is a condition of accession to the exam. The credit for the test takes place in direct contact or remote.

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

Grade:	Criteria for exam <sup>3</sup>
Very Good (5.0)	54-60 points
Good Above (4.5)	49-53 points
Good (4.0)	44-48 points
Satisfactory Plus (3.5)	39-43 points
Satisfactory (3.0)	34-38 points

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



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Person in charge for the course:	PROF. DR HAB. MAREK SĄSIĄDEK
Telephone:	+48 71 733 16 68
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List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Marek Sąsiadek	Prof. dr hab.	medical sciences	academic teacher	L
Anna Zimny	Dr hab., Profesor Uczelni	medical sciences	academic teacher	CC
Joanna Bładowska	Prof. dr hab.	medical sciences	academic teacher	CC
Maciej Guziński	Dr hab.	medical sciences	academic teacher	CC
Przemysław Podgórski	Lek.	medical sciences	academic teacher	CC
Dąbrówka Sokołowska-Dąbek	Dr n. med.		academic teacher	CC
Małgorzata Neska-Matuszewska	Dr n. med.		academic teacher	CC
Anna Zacharzewska Gondek	Dr n. med.	medical sciences	academic teacher	CC
Łukasz Waszczuk	Dr n. med.	medical sciences	academic teacher	CC
Alina Ferber	Dr n. med.		academic teacher	CC
Jagoda Jacków-Nowicka	Dr n. med.		academic teacher	CC
Marta Michali-Stolarska	Dr n. med.		academic teacher	CC

Date of Syllabus development

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Syllabus developed by

.....dr hab. Anna Zimny, prof. Uczelni.....

Signature of Head(s) of teaching unit(s)

Uniwersytet Medyczny we Wrocławiu  
KATEDRA RADIOLOGII  
kierownik

prof. dr hab. Marek Sąsiadek

Dean's signature

Wrocław Medical University  
Faculty of Medicine  
Vice Dean for Quality Studies

.....prof. Beata.....ska, Ph.D.