DESCRIPTION OF THE COURSE OF STUDY

Course code		12.6-3LEK-F-RwP						
Name of the course	Polish	Radiologia w pediatrii						
in	English	PEDIATRIC RADIOLOGY						

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1. Field of study	medicine
1.2. Mode of study	full-time
1.3. Level of study	uniform Master's study
1.4. Profile of study*	practical
1.5. Specialization*	lack
1.6. Unit running the course of study	Faculty of Medicine and Health Sciences UJK
1.7. Person/s preparing the course description	dr n. med. Michał Spałek
1.8. Person responsible for the course of study	dr n. med. Michał Spałek
1.9. Contact	michal_spa@op.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Affiliation with the module	facultative
2.2. Language of instruction	English
2.3. Semesters in which the course of study is offered	6-9 semesters of study
2.4. Prerequisites*	knowledge within the scope of anatomy, biophysics, and radiolo-
	gy

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classe	s	Lectures: 15 hours, Classes: 20 hours					
3.2. Place of classes	5	Lectures – in didactic rooms of the UJK					
		Classes - in didactic rooms of the UJK, and Kielce Region Cancer Centre					
3.3. Form of assess	ment	Lectures: credit with grade; Classes - credit with grade					
3.4. Teaching meth	ods	Lecture – information lecture with oral imparting of knowledge and use of visual					
		means					
		Classes - conversation lectures, discussion related with the lecture, presentation					
		with description, case analysis					
3.5. Bibliography	Required reading	Pediatric Imaging, ISBN: 9781451193176					
	Further reading	Valid legal acts in the scope of radiotherapy					

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

4.1. Course objectives (including form of classes)

C1 – Familiarisation with modern techniques of imaging diagnostics used in paediatrics.

- C2 Familiarisation with *diagnostic imaging algorithms* in paediatrics.
- C3 Preparation for using appropriate imaging techniques in paediatric diagnostics.
- C4 Familiarisation with the principles of appropriate preparation of patients for particular imaging tests in paediatrics.

C5 – Familiarisation with safety principles while performing various imaging diagnostics procedures in paediatrics.

4.2. Detailed syllabus (including form of classes)

Lectures

- Ultrasound in paediatrics.
 - Physical and technical essentials. Doppler ultrasound, Contrast media. Preparation of the patient for USG examinations.
- Paediatric rentgenodiagnostics
 - Physical and technical essentials. Contrast media. Imaging systems in rentgenodiagnostics.Conventional X-rays photographs. Digital radiology. X-ray. Radiological functional examinations. Possibilities and limitations of individual methods. Preparation of patient for individual radiological examinations.

• Computed tomography in paediatric diagnostics

Physical and technical essentials. Contrast media. Possibilities and limitations of the method. Preparation of patient for computed tomography examinations.

• Magnetic resonance in paediatric diagnostics

Physical and technical essentials. Contrast media. Possibilities and limitations of the method. Preparation of patient for magnetic resonance

- Basic problems within the scope of radiological protection.
 - Types of ionizing radiation. Immediate and distant somatic effects of radiation. Dose limits for occupational exposure, types of doses control. Methods of protection of patient against an excessive exposure.

Classes

- Ultrasound in paediatrics possibilities and limitations of the method.
- Paediatric rentgenodiagnostics possibilities and limitations of the method.
- Computed tomography in paediatric diagnostics possibilities and limitations of the method.
- Magnetic resonance in paediatric diagnostics possibilities and limitations of the method.

4.3 Education outcomes in the discipline

Code		A student, who passed the course									Relation to teaching outcomes												
							wit	hin tl	he sc	ope	of K	NO	WLE	DGI	E:			1					
W01	back, neck a	an anatomy topographically (upper and lower limb, chest, abdomen, pelvis, and head) and functionally (respiratory system, digestive system, urogenital vous system and sense organs, integumentary system);										A.W2.											
W02	knows the pl	nysic	al ba	isis o	f noi	n-inv	asive	e ima	ging	meth	nods:							B.W8.					
W03	knows and t management taking into a a) acute and b) diseases o c) diseases o	hysical basis of non-invasive imaging methods; B.W8. understand the causes, symptoms, principles of diagnosis and therapeutic F.W1. t in relation to the most common diseases requiring surgical intervention, account the individuality of childhood, in particular: F.W1. chronic diseases of the abdominal cavity, of the chest, of limbs and head, f.W1.																					
	d) bone fract																						
U01	intravital diagnostic tests, in particular in the field of radiology (plain images, tests using contrast agents, CT scans and magnetic resonance imaging)																						
4.4. I	Aethods of as	56221	ment	01 U	le m	tenu	eute	acm	ng o			1 0											
	Teaching outcomes			Exam oral/written* Test* Form of Form of				F	rojec <i>Torm o</i>	t* of	Effort in class* Form of			Self-study* 0 Form of F			Grouj work [*] Form d	* of	Others*				
	(code)		classe: C	s 	L	classe C	s 		classe C	<u>s</u>	L	classe C	s 		classe C	s 		classe C	<u>s</u>	T		n oj ciusses	
	W01	L	C		L	C		L	C		L	C		L	C		L	C		L	C		
	W02																						
	W03																		-				
	W04																						
	U01																						
dalata d	s annronriate					•	•										t						

*delete as appropriate

Form		
of	Grade	Criterion of assessment
classes		
	3	61%-68%
(L)	3,5	69%-76%
lecture	4	77%-84%
ecti	4,5	85%-92%
Ι	5	93%-100%
v	3	61%-68%
C)*	3,5	69%-76%
es (4	77%-84%
classes (C)*	4,5	85%-92%
5	5	93%-100%

• Thresholds are valid from 2018/ 2019 academic year

5. BALANCE OF ECTS CREDITS – STUDENT'S WORK INPUT

	Student's workload					
Category	Full-time					
	studies					
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/	35					
Participation in lectures*	15					
Participation in classes, seminars, laboratories*	20					
Preparation in the exam/ final test*						
Others*						
INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/	15					
Preparation for the lecture*						
Preparation for the classes, seminars, laboratories*	10					
Preparation for the exam/test*	5					
Gathering materials for the project/Internet query*						
Preparation of multimedia presentation						
Others*						
TOTAL NUMBER OF HOURS	50					
ECTS credits for the course of study	2					

Accepted for execution (date and signatures of the teachers running the course in the given academic year)

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