

DESCRIPTION OF THE COURSE OF STUDY

Course code	0912-7LEK-F-5-SC	
Name of the course in	Polish	Struktury ciała ludzkiego w badaniach obrazowych
	English	Human body structures in medical imaging

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 studies
1.4. Profile of study*	General academic
1.5. Specialization*	Lack
1.6. Unit running the course of study	The Faculty of Medicine and Health Sciences
1.7. Person/s preparing the course description	dr n. med. Michał Spalek
1.8. Person responsible for the course of study	dr n. med. Michał Spalek
1.9. Contact	Wnoz_inm@ujk.edu.pl

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Affiliation with the module	elective
2.2. Language of instruction	English
2.3. Semesters in which the course of study is offered	2nd semester
2.4. Prerequisites*	Lack

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	lectures 15 h	
3.2. Place of classes	Courses in the teaching rooms of the UJK	
3.3. Form of assessment	credit with grade	
3.4. Teaching methods	informative lecture with oral transmission of knowledge and the use of visual means, conversational lecture, demonstration with description, discussion connected with the lecture	
3.5. Bibliography	Required reading	1. Wicke L: Atlas of Radilologic Anatomy. 7th edition, Saunders 2004
	Further reading	1. Spratt J, Salkowski L, Loukas M, Turmezei T, Weir J, Abrahams P: Weir & Abrahams' Imaging Atlas of Human Anatomy. 5th edition, Elsevier 2017 2. Ryan S, McNicholas M, Eustace SJ: Anatomy for Diagnostic Imaging. 3rd edition, Saunder 2010 3. McWilliams S: Practical Radiological Anatomy. CRC Press LLC 2011 4. Weissleder R, Wittenberg J, Harisinghani MG, Chen JW: Primer of Diagnostic Imaging : Expert Consult-Online and Print. 5th edition, Mosby 2011

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

4.1. Course objectives (including form of classes)

C1-W – familiarize the students with the knowledge and understanding of human anatomy in morphologic and topographic aspects in medical imaging

C2-W – make the students aware of the impact of the latest developments in science and technology on the advancement of particular methods of medical imaging

C3-W – provide students with the knowledge in the scope of the physical and technical basics of ultrasound, X-ray, computed tomography and magnetic resonance imaging as well as possibilities and limitations of individual imaging methods.

C4-W – familiarize the students with the specialized terminology used in the descriptions of imaging examinations

C5-U – acquiring skills to recognize anatomical structures and some pathological changes of human body organs in individual imaging examinations

C6-U – prepare the student to make a proper assessment of individual functional systems in various clinical situations as well as suggesting the way of further proceedings.

C7-U – prepare to use the knowledge of topographic human anatomy in both diagnostic and therapeutic medical procedures.

C8-K – awareness of the opportunity to acquire knowledge from different sources and seeking help from other people.

4.2. Detailed syllabus (including form of classes)

Lp.	Lecture subjects	Number of hours
W1	Radiological anatomy of all organs of the human head and neck area in medical imaging studies	5
W2	Radiologic anatomy of all organs in the thorax, abdomen and pelvis area in medical imaging studies	5
W3	Radiologic anatomy of the upper and lower limb, and of the spine in medical imaging studies	4
W4	Passing out	1
	Total number of hours	15

4.3 Education outcomes in the discipline

Code	A student, who passed the course	Relation to teaching outcomes
within the scope of KNOWLEDGE:		
W01	knows anatomical, histological and embryological terminology in Polish and English;	A.W1.
W02	knows human anatomy topographically (upper and lower limb, chest, abdomen, pelvis, back, neck and head) and functionally (respiratory system, digestive system, urogenital system, nervous system and sense organs, integumentary system);	A.W2.
W03	describes topographical relations between individual organs;	A.W3.
within the scope of ABILITIES:		
U01	makes conclusions as to the relationship between anatomical structures on the basis of intravital diagnostic tests, in particular in the field of radiology (plain images, tests using contrast agents, CT scans and magnetic resonance imaging);	A.U4.

U02	uses anatomical, histological and embryological terminology both in written and oral communication;	A.U5.
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4.4. Methods of assessment of the intended teaching outcomes

Teaching outcomes (code)	Method of assessment (+/-)																						
	Exam oral/written*			Test*			Project*			Effort in class*			Self-study*			Group work*			Others* Final passing out both of lectures and self-study subjects (written and practical parts)				
	Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes				
	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C
W01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-		
W02	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-		
W03	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-		
U01	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-		
U02	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-		

*delete as appropriate

4.5. Criteria of assessment of the intended teaching outcomes

Form of classes	Grade	Criterion of assessment
lecture (L)	3	Student mastered knowledge and skills specified in 4.3 sufficiently – obtained 61-68% of possible points
	3,5	Student mastered knowledge and skills specified in 4.3 fairly good – obtained 69-76% of possible points
	4	Student mastered knowledge and skills specified in 4.3 good – obtained 77-84% of possible points
	4,5	Student mastered knowledge and skills specified in 4.3 more than good – obtained 85-92% of possible points
	5	Student mastered knowledge and skills specified in 4.3 very good – obtained 93-100% of possible points

- **Thresholds are valid from 2018/ 2019 academic year**

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

Category	Student's workload
	Full-time studies
<i>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</i>	15
<i>Participation in lectures*</i>	15
<i>Participation in classes, seminars, laboratories*</i>	
<i>Preparation in the exam/ final test*</i>	
<i>Others*</i>	
<i>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</i>	10
<i>Preparation for the lecture*</i>	10
<i>Preparation for the classes, seminars, laboratories*</i>	
<i>Preparation for the exam/test*</i>	
<i>Gathering materials for the project/Internet query*</i>	
<i>Preparation of multimedia presentation</i>	
<i>Others*</i>	
<i>TOTAL NUMBER OF HOURS</i>	25
ECTS credits for the course of study	1

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

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