

## DESCRIPTION OF THE COURSE OF STUDY

<b>Course code</b>	<b>0912-7LEK-B1.1-An</b>	
<b>Name of the course in</b>	Polish	<b>Anatomia</b>
	English	<b>Anatomy</b>

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

<b>1.1. Field of study</b>	medicine
<b>1.2. Mode of study</b>	full-time
<b>1.3. Level of study</b>	uniform Master's study
<b>1.4. Profile of study*</b>	General academic
<b>1.5. Person preparing the course description</b>	dr hab. n. med. Marcin Sadowski, prof. UJK
<b>1.6. Contact</b>	msadowski@ujk.edu.pl

### 2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

<b>2.1. Language of instruction</b>	English
<b>2.2. Prerequisites*</b>	The preliminary biology and chemistry program in the field of high school matura exam at basic level

### 3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

<b>3.1. Form of classes</b>	<b>lectures 105 h (55+50) including (16+14) hours of e-learning, practical classes 120 h (60+60)</b>	
<b>3.2. Place of classes</b>	Courses in the teaching rooms of JKU	
<b>3.3. Form of assessment</b>	lecture – exam (2 <sup>nd</sup> semester), practical classes – credit without grade in the 1 <sup>st</sup> semester, credit with grade in the 2 <sup>nd</sup> semester	
<b>3.4. Teaching methods</b>	Lecture – informative lecture with oral transmission of knowledge and the use of visual means Practical classes – analysis of anatomical models, specimens and imaging together with dissecting of selected specimens	
<b>3.5. Bibliography</b>	<b>Required reading</b>	<ol style="list-style-type: none"> <li>1. Moore KL, Agur AMR, Daley AF. Clinically Oriented Anatomy, 8<sup>th</sup> ed. or next + ebook, Wolters Kluwer, Lippincott Williams &amp; Wilkins, 2018.</li> <li>2. Frank H. Netter. Atlas of Human Anatomy: Including Student Consult Interactive Ancillaries and Guides, 7<sup>th</sup> ed. or next + ebook, Saunders, 2019.</li> <li>3. Spodnik JH. Mianownictwo anatomiczne. Edra Urban &amp; Partner, 2<sup>nd</sup> ed., 2017</li> </ol>
	<b>Further reading</b>	<ol style="list-style-type: none"> <li>1. Drake RL, Vogl AW i Mitchell AWM. Gray's Anatomy for Students. The anatomical basis of clinical practice. 4<sup>th</sup> ed. or next + ebook, Elsevier Digital Press, 2019.</li> <li>2. Goulden DJ. Neuroanatomy BRS. Edra Urban &amp; Partner, 2021.</li> </ol>

## 4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED TEACHING OUTCOMES

### 4.1. Course objectives (including form of classes)

#### Lectures, Classes, Practical Classes

##### Aims

- C1-W – provide students with knowledge in the scope of anatomy of the skeletal, muscular, nervous, circulatory, respiratory, digestive, genital, urinary, endocrine, sensory organs and integumentary system
- C2-W – familiarize the student with the knowledge and understanding of human anatomy in topographic term
- C3-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
- C4-U – prepare to use the knowledge of topographic anatomy of human in both diagnostic and therapeutic medical procedures
- C4-K – awareness of the possibility of acquiring knowledge from different sources and seeking the help of other people
- C5-K -creation of appropriate ethical attitude towards the body of the living and the dead man
- Lectures: C1-W, C2-W, C4-U, C4-K; Classes: C1-W, C3-U, C4-U, C5-K; Practical classes: C1-W, C2-W, C5-K

### 4.2. Detailed syllabus (including form of classes)

#### Program of lectures

- The history and basic concepts of anatomy.
- The topography of human body, directions, location, axes, planes, parts.
- Topographic and functional anatomy of the locomotor system.
- Topographic and functional anatomy of central and peripheral nervous system and sense organs.
- Topographic and functional anatomy of all organs of the head and neck.
- Topographic and functional anatomy of all organs in the thorax.
- Topographic and functional anatomy of all organs in the abdomen and pelvis.
- Selected aspects of the anatomy in different imaging modalities.

#### e-learning

- Thorax – 8 hours, Syndesmology – 2 hours, Integumentary system – 3 hours, The lymphatic system – 2 hours, Imaging of abdominopelvic viscera – 3 hours, Imaging of CNS – 3 hours, Typical bedside surgical procedures – 8 hours

#### Program of classes

- The division of the program into particular classes is at the discretion of the teachers. Detailed description will be published by the Department of Anatomy.

#### 1<sup>st</sup> semester

- I. General anatomy and topographic, functional and radiologic anatomy of upper extremity
- II. Topographic, functional and radiologic anatomy of lower extremity
- III. Topographic, functional and radiologic anatomy of all organs of the thorax and back

#### 2<sup>nd</sup> semester

- IV. Topographic, functional and radiologic anatomy of all organs in the abdomen and pelvis
- V. Topographic, functional and radiologic anatomy of all organs of head and neck
- VI. Topographic, functional and radiologic anatomy all organs of the central nervous system

### 4.3. Education outcomes in the discipline

Code	A student, who passed the course	Relation to teaching outcomes
within the scope of <b>KNOWLEDGE</b> , the graduate knows and understands:		
W01	anatomical, histological and embryological terminology	A.W1.
W02	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	topographical relations between individual organs	A.W3.
within the scope of <b>ABILITIES</b> , the graduate knows how to:		
U01	explain the anatomical basis for clinical examination	A.U3.
U02	make conclusions as to the relationship between anatomical structures on the basis of <i>in vivo</i> diagnostic tests, in particular in the field of radiology (plain images, tests using contrast agents, CT scans and magnetic resonance imaging)	A.U4.

U03	Use anatomical, histological and embryological terminology both in written and oral communication	A.U5.
within the scope of <b>SOCIAL COMPETENCE</b> , the graduate is able to:		
K01	recognize his/her own limitations and self-evaluate educational deficiencies and needs	H.S5
K02	use reliable information sources	H.S7
K03	conclude on the basis of own surveys and observations	H.S8
K04	introduce rules of social conduct and teamwork to the group of specialists, including specialists of other medical professions also in the multicultural and multinational environment	H.S9
K05	give opinions concerning various aspects of professional activity	H.S10
K06	take responsibility for own decisions made during professional activities including own safety and safety of other people	H.S11

#### 4.4. Methods of assessment of the intended teaching outcomes

Teaching outcomes (code)	Method of assessment (+/-)												
	Exam (written and practical)		Tests		Project*		Effort in class*		Self-study*		Group work*	Others* Observation	
	Form of classes		Form of classes		Form of classes		Form of classes		Form of classes		Form of classes	Form of classes	
	L	PC	L	PC	L	PC	L	PC	L	PC	PC	L	PC
W01	+	+		+			+	+		+	+		
W02	+	+		+			+	+		+	+		
W03	+	+		+				+		+	+		
U01	+	+		+			+	+		+	+		
U02	+	+		+			+	+		+	+		
U03	+	+		+			+	+		+	+		
K01-K06												+	+

\*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 60-68% 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
Classes (C)	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

	<b>4</b>	Student mastered knowledge and skills specified in 4.3 good – obtained 77-84% of possible points
	<b>4,5</b>	Student mastered knowledge and skills specified in 4.3 more than good – obtained 85-92% of possible points
	<b>5</b>	Student mastered knowledge and skills specified in 4.3 very good – obtained 93-100% of possible points
Practical classes	<b>3</b>	Student mastered knowledge and skills specified in 4.3 sufficiently – obtained 60-68% of possible points
	<b>3,5</b>	Student mastered knowledge and skills specified in 4.3 fairly good – obtained 69-76% of possible points
	<b>4</b>	Student mastered knowledge and skills specified in 4.3 good – obtained 77-84% of possible points
	<b>4,5</b>	Student mastered knowledge and skills specified in 4.3 more than good – obtained 85-92% of possible points
	<b>5</b>	Student mastered knowledge and skills specified in 4.3 very good – obtained 93-100% of possible points

**The final exam consists of two parts: written test and practical. To pass and to obtain a credit at least 60% score is needed for both parts, respectively.**

There are full particulars related to the rules and procedures of the exam and credits in the Internal Regulation of the Anatomy Department.

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

Category	Student's workload
	Full-time studies
<b>NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/</b>	<b>225</b>
<i>Participation in lectures</i>	<b>75</b>
<i>Participation in classes, seminars, laboratories</i>	<b>120</b>
<i>Preparation in the exam/ final test</i>	
<i>Others</i>	<b>30 (e-learning)</b>
<b>INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/</b>	<b>200</b>
<i>Preparation for the lecture</i>	<b>50</b>
<i>Preparation for the classes, seminars, laboratories</i>	<b>125</b>
<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>	
<b>TOTAL NUMBER OF HOURS</b>	<b>425</b>
<b>ECTS credits for the course of study</b>	<b>17</b>

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

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