

<b>GENERAL INFORMATION</b>		
Course	<b>Anatomy 2 – The study of Organs</b>	
Course coordinator	<b>Assoc. Prof. Antonio Kokot, MD, PhD</b>	
Assistant/Associate	Prof. Robert Selthofer, MD, PhD Prof. Mislav Gjurić, MD, PhD Asst. Prof. Darija Šnajder Mujkić, MD, PhD Asst. Prof. Tanja Kovač, MD, PhD Asst. Prof. Damir Hudetz, MD, PhD Antun Šumanovac, MD, PhD Zvonimir Popović, MD Marko Sablić, MD	
Study Programme	<b>Integrated undergraduate and graduate university study of Medicine in German language</b>	
Status of the course	Mandatory	
Year of study, semester	1st year, 2nd semester	
Grading scale and workload	ECTS	<b>8</b>
	Hours (L+S+E)	<b>115 (45+30+40)</b>
<b>COURSE DESCRIPTION</b>		
<b>Course objectives</b>		
<p>The anatomy of internal organs will be considered from a functional point of view with special emphasis on the clinical anatomy of adults. In clinically significant areas, the student must know the anatomy of children, adolescents and pregnant women. The student must be able to find and recognize those anatomical structures on the chest and abdomen that will be encountered daily during clinical work. The topographical and systemic anatomy of the heart and circulatory system, respiratory, digestive, urinary, endocrine and reproductive systems will be covered in detail, and will provide students with good practical knowledge of the structure and topography of the human body.</p>		
<b>Enrolment requirements and entry competencies</b>		
No preconditions are required.		
<b>Learning outcomes at the Programme level</b>		
<b>1.1., 1.2., 2.1., 2.2., 2.3., 3.4., 3.5., 4.2.</b>		
<b>Learning outcomes (5-10)</b>		

**Knowledge**

1. Determining the logic and meaning of the anatomical nomenclature as well as defining the basic principles of the structure of: the heart, circulatory, respiratory, digestive, endocrine, urinary and reproductive systems
2. Interpret the various parts of human organ systems and their mutual relationships and describe individual anatomical structures of each organ
3. Assess the irrigation and innervation of each studied organ and conclude on their physiological significance in the context of the organism as a whole
4. Describe the function of individual organic systems
5. Theoretically and practically review the content of a particular region and explain the topographic relationships of anatomical structures
6. Apply basic knowledge of anatomy and compare them with clinically significant entities
7. Connect the knowledge of anatomy with the principles of physical examination of the patient and presentations of anatomical structures with different imaging diagnostic procedures

**Skills**

1. Recognize the boundaries of individual regions and their entire anatomical content on the cadavers and isolated organs
2. Determine and explain the topographic relationships within each studied anatomical region
3. Independently explain and analyze the structures and functional parts of the individual studied tissues in different sections

**Course content**

Chest: bones of the thorax, functional anatomy of joints and muscles of the chest wall, diaphragm and its function, mammary glands, esophagus, trachea, bronchial tree and lungs, heart position, heart surface topography, heart chambers and valves, blood vessels of the heart, innervation and conduction system of the heart, pericardium, small blood flow, mediastinum, lymph nodes, heart and lung auscultation sites and topographical regions.

Abdomen: abdominal wall and inguinal canal, stomach, duodenum, small and large intestine, rectum, liver and pancreas, spleen, development of organs in the abdominal cavity, peritoneum, blood vessels of the digestive system, portal vein, kidneys and adrenal gland, ureters, urinary bladder, large and small pelvic cavity with contents, urethra, male and female reproductive organs, testicular descent and the development of the urogenital systems, retro- and subperitoneal space, lymph glands and lymph nodes, functional anatomy of the spine as well as topographical regions in the human body.

<b>Mode of teaching</b>	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> distance education <input type="checkbox"/> field teaching	<input checked="" type="checkbox"/> independent tasks <input checked="" type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> mentoring work <input type="checkbox"/> other
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**Student obligations**

Students are expected to attend all class sessions, as well as to take all the examinations. However, they are allowed for excused absences, totalling 30% of all classes. Active involvement of students in all forms of the teaching process will be encouraged. The student must pass all knowledge tests. Uncompleted exercises and seminars must be retaken and passed.

Monitoring student work							
Attending classes	x	Class activity	x	Seminar work		Experimental work	
Written exam	x	Oral exam	x	Essay		Research	
Project		Continuous knowledge verification		Paper		Practical work	x
Portfolio							

### Grading and evaluation of student work during classes and of the final examination

Teaching activity	ECTS	Learning outcome	Student activity	Assessment methods	Grade points	
					Min.	Max.
Class attendance nastave (lectures)	2	Mastering the anatomical learning material, acquiring theoretical and practical knowledge provided by the course	Attendance at classes,	Attendance list	5	10
Seminars			Seminar work, active participation in discussions	Presentation		
Exercises			Entrance colloquium, preparation of exercises, writing the laboratory exercise diary	Diary, entrance colloquium		
Provjera znanja	2	Testing the theoretical knowledge	Learning for the written exam	Written exam	15	30
	2	Testing the practical knowledge	Preparations for the practical exam	Practical exam	10	15
	2	Testing the overall knowledge and its integration	Learning and preparations for the oral exam	Oral exam	20	50
<b>Total</b>	<b>8</b>				<b>50</b>	<b>100</b>

#### Calculation of final grade:

Based on the total sum of the points awarded during the course and the final exam, the final grade is determined according to the following distribution:

A – excellent (5): 90 - 100 grade points;

B – very good (4): 70 - 79,99 grade points;

C – good (3): 60 - 69,99 grade points;

D – sufficient (2): 50 - 59,99 grade points.

#### Required reading

1. Aumüller G. et al. Duale Reihe Anatomie, 2020, Thieme.
2. Sobotta. Atlas der Anatomie - 3 Bände und Tabellenheft im Schubert, 2017, Elsevier

### **Additional reading**

1. Waldeyer A. Anatomie des Menschen (Lehrbuch und Atlas in einem Band), 2012, De Gruyter.
2. Schünke M. et al. PROMETHEUS Allgemeine Anatomie und Bewegungssystem (LernAtlas der Anatomie), 2014, Thieme
3. Platzer W. Taschenatlas Anatomie, Band 1: Bewegungsapparat, 2013, Thieme
4. Fritsch H, Kühnel W. Taschenatlas der Anatomie, Band 2: Innere Organe, 2013. Thieme.
5. Frotscher M, Kahle W. Taschenatlas Anatomie, Band 3: Nervensystem und Sinnesorgane, 2013, Thieme.

### **Number of copies of required literature in relation to the number of students currently attending classes in the course**

Title	Number of copies	Number of students
<ol style="list-style-type: none"> <li>1. Aumüller G. et al. Duale Reihe Anatomie, 2020, Thieme.</li> <li>2. Sobotta. Atlas der Anatomie - 3 Bände und Tabellenheft im Schubert, 2017, Elsevier</li> </ol>	<p>The purchased license for online textbooks will be used <a href="https://bfdproxy48.bfd-online.de/login.htm?back=http%3a%2f%2fpartner.bfd-online.info.bfdproxy48.bfd-online.de%2fameos%2fbfdAboGateway%3fabold%3d264117;">https://bfdproxy48.bfd-online.de/login.htm?back=http%3a%2f%2fpartner.bfd-online.info.bfdproxy48.bfd-online.de%2fameos%2fbfdAboGateway%3fabold%3d264117;</a> All students enrolled in the study program will have access to the materials.</p>	

### **Course evaluation procedures**

Anonymous, quantitative, standardized student survey providing feedback on the course as well as on the work of course coordinators and their assistants/associates is being conducted by the QA Office of the Faculty of medicine Osijek as well as the University survey conducted by the Quality Center of the Josip Juraj Strossmayer University in Osijek. The usefulness of the lectures from the students' perspective, the teaching content, the teacher's preparation, clarity of the presentation, the amount of new content and the quality of the presentation are all evaluated. Administratively, the curriculum and its execution are compared. Student participation in lectures and exercises and the reasons for absences are controlled and analyzed.