



COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Code
Human Anatomy II , academic year 2024/2025 (Medicine)	ZMAN2215

Academic staff	Core academic unit(s)
Coordinating: prof. Janina Tutkuvienė Other lecturers: assoc. prof. Arūnas Barkus, assoc. prof. Eglė Marija Jakimavičienė, assoc. prof. Andrej Suchomlinov, assist. prof. Rūta Morkūnienė, lect. Dainora Bandzevičienė	Vilnius University, Medical Faculty, Institute of Biomedical Sciences, Department of Anatomy, Histology and Anthropology, Ciurlionio str. 21/27, Vilnius

Study cycle	Type of the course unit
Cycle (integrated studies)	compulsory

Mode of delivery	Semester or period when it is delivered	Language of instruction
Remote lectures, face-to-face and remote seminars, face-to-face practical classes	II (Spring) semester	English

Requisites	
Prerequisites: Credit of the first semester	Corequisites (if any): None

Number of ECTS credits allocated	Student's workload (total)	Contact hours	Individual work
5	133	66	67

Purpose of the course unit
The purpose of the course unit is to prepare students for clinical medicine studies, provide important knowledge about the human body structure, create interest and teach techniques to help at the chosen medical specialty of an individual to go into the details of human body composition. By the end of the course students must know the structure of the locomotor system, internal organ systems, central nervous system and sense organs, circulatory system and peripheral nervous system, understand their individual, clinical, age-related and sex-related features, get a generalized, integrated understanding of the whole structure of the human body, use correct anatomical terminology and know the history of anatomy in Lithuania and the world.

Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
General competencies After successful completion of this semester the student will be able:		
Act fairly and according to ethical obligations, be empathic; think critically and self-reflectively; be creative and take the initiative; be goal-oriented; communicate with others.	Lectures, practical classes, and seminars; collaboration-based study strategy (work in pairs or small groups).	Continuous cumulative assessment during the semester.
Make an assessment within the scope of one's competence and, if necessary, ask for help; act in the face of new situations and adapt to them; act independently; solve problems and make decisions; communicate and work in a team with other students; organise and plan.	Lectures, practical classes, and seminars, independent studies; collaboration-based study strategy (work in pairs or small groups).	Continuous cumulative assessment during the semester.
Analyse and synthesize; apply theoretical knowledge in practice.	Practical classes and seminars, independent studies; methods of proactive lecturing (group	Continuous cumulative assessment during the semester.

	discussions).	
Special competencies After successful completion of this semester the student will be able:		
Have good knowledge of the human circulatory system, its normal anatomy, the most common variations, age-related characteristics	Lectures, practical classes, seminars, consultations, individual studies	Intermediate colloquia; a written exam at the end of the subject studies
Have good knowledge of the human peripheral nervous system, its normal anatomy, basic symptoms of peripheral nerve damage	Lectures, practical classes, seminars, consultations, individual studies	Intermediate colloquia; a written exam at the end of the subject studies
Be able to use correct anatomical terminology (in English and Latin)	Lectures, practical classes, seminars, consultations, individual studies	Continuous assessment during practical classes and intermediate colloquia; a written exam at the end of the subject studies

Content	Contact hours							Individual work: time and assignments
	Lectures	Seminars	Workshops	Laboratory work	Internship	Contact hours, total	Individual studies	Tasks for individual work
1. Circulatory system: introduction, structure elements, ontogenesis. Heart.		2	2			4	4	Studies of the literature, preparing for seminars and intermediate colloquia
2. Blood vessels of the trunk. Foetal circulation and its changes after birth. Lymphatic system.	4	4	3			11	11	Studies of the literature, preparing for seminars and intermediate colloquia
3. Autonomic (visceral) nervous system.	2					2	2	Studies of the literature, preparing for seminars and intermediate colloquia
4. Endocrine system.	2	1				3	3	Studies of the literature, preparing for seminars and intermediate colloquia
5. Blood vessels of head and neck.	4	3	3			10	10	Studies of the literature, preparing for seminars and intermediate colloquia
6. Blood vessels of the limbs.	6	3	3			12	12	Studies of the literature, preparing for seminars and intermediate colloquia
7. Overview of the peripheral nervous system. Spinal nerves, plexuses and peripheral nerves	10	2	2			14	14	Studies of the literature, preparing for seminars and intermediate colloquia
8. Cranial nerves.	4	2	4			10	11	Studies of the literature, preparing for seminars and intermediate colloquia, preparation of questions for the consultation.
In total:	32	17	17	0	0	66	67	

Assessment strategy	Weight (%)	Assessment period	Assessment criteria
Continuous assessment during lectures, practical classes and seminars		During the semester	Attendance of practical classes and seminars is mandatory: missing classes due to justified causes must not exceed more than 20% of the scheduled time. During the practical classes or seminars, discussions are

			organized according to the topics provided in the study plan – material presented during lectures, also indicated for independent studies, as well as recommended diagrams and pictures are discussed, as well as anatomical specimens, models, etc. are studied.
Phased (intermediate) assessment – three colloquia must be passed: 1) Trunk region 2) Head and neck region 3) Limbs' region	15	During the semester	Colloquiums are held in the VU VMA platform and are evaluated in a 10-score system. Final evaluations of colloquiums are not rounded. The colloquium is passed (credited) if the final assessment is ≥ 5.0 scores. If a colloquium, given in the study plan, is failed, a student is provided with an opportunity to retake it at an allotted time: a total of two re-takes of the same colloquium are organized during the semester and another re-take is organized during the debt week (at the beginning of the next semester).
Final exam (in written form)	70	During the session	Only students, who have passed all colloquia, given in the study plan, and have fulfilled the attendance requirements can take the final exam. Exam test is taken in VU VMA platform. The final exam test makes 70% of the final grade. The remaining 30% are the average not rounded score of all colloquia from the two semesters. <u>The final grade is written according to the following scheme:</u> 10 – total score $\geq 90\%$ 9 – total score $\geq 83\%$ 8 – total score $\geq 75\%$ 7 – total score $\geq 65\%$ 6 – total score $\geq 55\%$ 5 – total score $\geq 50\%$ 4 – total score $< 50\%$ (failed – from 49.9%)

Author (-s)	Publication year	Title	Issue of a periodical or volume of a publication	Publishing house or web link
Required reading:				
Friedrich Paulsen, Jens Waschke	2018, 2020, 2023	Sobotta Atlas of (Human) Anatomy	Vol. 1-3, 17 th ed.	Urban & Fischer
S.Standring (ed.)	2016, 2020, 2021	Gray's Anatomy: The anatomical basis of clinical practice	41 st ed. 42 nd ed.	Churchill Livingstone Elsevier
Netter F.H.	2010-2022	Netter Atlas of Human Anatomy	5-8 th ed.	Elsevier
Links to online books:				
S.Standring (ed.)	2020	Gray's Anatomy for Students	4 th ed.	https://www.clinicalkey.com#!/browse/book/3-s2.0-C20150000041
S.Standring (ed.)	2021	Gray's Anatomy: The anatomical basis of clinical practice	42 nd ed.	https://www.clinicalkey.com#!/browse/book/3-s2.0-C20170037291
Netter F.H.	2022	Netter Atlas of Human Anatomy	8 th ed.	https://www.clinicalkey.com#!/browse/book/3-s2.0-C20180044345
Recommended reading:				

Kahle W., Leonhardt H., Platzer W., Frotscher M., Fritsch H., Kuehnel W.	2006, 2008 2011 2014 2015 2022	Color Atlas / Text of Human Anatomy.	Vol. 1-3	Thieme Medical Publishers Inc.
A.M. Gilroy, B.R. MacPherson, J.C. Wikenheiser (eds.)	2020	Atlas of anatomy	4 th ed.	Thieme Medical Publishers Inc.
References to online publications available at VU MF: https://www.clinicalkey.com/#!/browse/books/%7B%22query%22:%22anatomy%22%7D				
Links to recommended online books:				
Netter F.H.	2022	Netter Atlas of Human Anatomy	8 th ed.	https://www.clinicalkey.com/#!/browse/book/3-s2.0-C20180044345
Friedrich Paulsen, Jens Waschke	2018	Sobotta Atlas of Anatomy	Vol. 1, 16 th ed.	https://www.clinicalkey.com/#!/browse/book/3-s2.0-C20170020037
Friedrich Paulsen, Jens Waschke	2018	Sobotta Atlas of Anatomy	Vol. 2, 16 th ed.	https://www.clinicalkey.com/#!/browse/book/3-s2.0-C20170020062
Friedrich Paulsen, Jens Waschke	2018	Sobotta Atlas of Anatomy	Vol. 3, 16 th ed.	https://www.clinicalkey.com/#!/browse/book/3-s2.0-C2018001779X