# 2022/2023. ACADEMIC YEAR PROGRAM OF STUDY (For students of 1st year)

Full name of the subject: ANATOMY								
Program: undivided program (pharmaceutical)								
Schedule: full-time								
Short name of the subject: Anatomy								
English name of the subject: Anatomy								
German name of the subject: Grundlagen der Anatomie								
Neptun code of the subject: GYKANT272E1A								
Type of registration: <u>obligatory</u> /obligatory elective/elective/criteria requirement								
Responsible department: Department of Anatomy, Histology and Embryology of Semmelweis University								
Responsible tutor: Dr. Ágnes Csáki				Title, academic degree: associated professor, Ph.D.				
Contact information:								
- telephone:	: 215 6920 / :	53652 ext.,						
- email: csa	ki.agnes@m	ed.semmelweis	-univ.hu					
Name of the p	persons resp	onsible for the	e teaching of the	Title, academic degree:				
subject:								
Dr. Herberth-Minkó Krisztina				assistant professor, Ph.D.				
Szászné Dr. K	ocsis Katalii	1		assistant professor, Ph.D.				
Dr. Puskár Zita				senior research fellow, Ph.D.				
Classes per week:				Credit point(s):				
2 lecture(s)				4				
		2 practice(s)						
Professional content, intent of acquirement and it's function in order to implement the goals of the program:								
Course principles:								
Principles:		- f 4h - h						
- to teach the t	erminology	of the human af	hatomy to the future	pharmacists				
- to discuss the	ose special a	hatomical and p		ions which ma	ly influnce the ti	herapeutical conside	erations;	
- to discuss the	nose anatom	ical conditions	, with are necessa	ry for the unc	terstanding of t	ne further medical	subjects of the	
pharmacists' studies;								
- to teach the	terning of th	(Laun and Eng	use during the sem	y parts (at a gi	tween the phore	copical anatomical	ever) necessary	
Special attenti	for the understanding of the medical language during the communication between the pharmacists and the doctors.							
Special attention is required concerning the anatomy of the central nervous system and the digestive tract, the absorption of medicines and their mechanism of action								
medicines and	i then mecha	insin of action.						
Short description of the subject:								
The lectures include all topics of anatomy, histology and embryology. Locomotor system, internal organs, nervous system,								
general and detailed histology, general embryology and development of organs are the topics of the lectures.								
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			Cou	rse aata	Total			
n	Contact	Contact			number of			
Recommen-	hours	hours	Contact hours	Individual	contact	Normal course	Consultations	
ded term	(lecture)	(practice)	(seminar)	lectures	hours/semes-	offer	Constitutions	
					ter			
						Autumn semester*		
2	28	28				Spring semester*		
					56	Both semesters*		
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	Program of semester					
Topics of theoretical classes (pro week):						
1st week:	1. Introduction, Locomotor System					
	2. Skull, vertebral column, head, neck muscles					
2nd week:	3. Basic tissues I.					
	4. Basic tissues II., Skin					
3rd week:	5. The Immune System, the Lymphoid Organs					
	6. Blood, hematopoiesis					
4th week:	7. Heart, the Vascular System					
	8. The Respiratory System, the Mechanics of Breathing					
5th week:	9. The Digestive System I, abdominal cavity					
	10. The Digestive System II					
6th week:	11. The Liver, the Pancreas					
	12. Peritoneum, abdominal cavity					
7th week:	13. The Kidneys and the Urinary tract I.					
	14. The Kidneys and the Urinary tract II.					
8th week:	15. The Female Reproductive Organs, cycle					
	16. The Male Reproductive Organs, Pelvis					
9th week:	17. Nervous System introduction (synapses, neurotransmitters) Spinal cord, spinal nerves					
	18. Central Nervous System, meninges, blood supply, CSF, Encephalon, Spinal cord, Spinal nerves					
10th week:	19. Motor system, Sensory system, Limbic system					
	20. Cranial nerves, The Autonomic Nervous System					
11th week:	21. The Eyeball and Visual system					
	22. The Organ of Hearing and Equilibrium.					
12th week:	23. Hypothalamus, the Endocrine Organs I					
	24. The Endocrine Organs II					
13th week:	25. Germ cells, Fertilization, Development of the fetus, Placenta,					
	26. Teratology					
14th week:	27. Development of the Digestive System and Reproductive organs					
28. Malformations						
Topics of pr	actical classes (pro week):					
1st week: int	roduction, upper and lower limbs					
2nd week: basic tissues, skin						
3rd week: skull, vertebral column, head, neck muscles						
4th week: histology of the blood, vessels and the lymphoid organs						
Sin week: respiratory tract, thoracic cavity, neart, large vessels						
oun week: respiratory tract histology, gastrointestinal tract histology						
/in week: gastrointestinal tract, abdominal cavity						
Sth week: kidney and urinary tract histology, genital organs histology						
9 (ii) week. utogenital system, pervis						
10th week: <u>1st Midterm</u> - locomotor system, internal organs (not obligatory), nervous system histology						
11th week: nervous system: brain spinal cord cranial nerves, spinal nerves, main vessals and nerves on limbs, sensery ergens						
12th week: and yous system. Orani, spinar coru, crainar nerves, spinar nerves, mani vessers and nerves on milds, sensory organs						
13th week. Chullenne organis, placenta 14th week: 2nd Midterm – nervous system, endogring organs, general embryology (not obligatory), revision						
14th week: <u>2nd Mildterm</u> - nervous system, endocrine organs, general embryology (not obligatory), revision						
Schedule of consultations: -						
Course requirements						
Prerequisite	s:					
Biology I., (	GYKGEN109E1A)					
Medical Terminology (GYKNYE111G1A)						
Conditions of other line the closers amount of a constable charges and the closer of the closers of the f						
Conditions	or attending the classes, amount of acceptable absents, way of presentation of leave, opportunity for					

makeup:

Attendance of a minimum of 75% of practices is necessary for the end-term signatures. There is no makeup opportunity.

### Number, topics and dates of tests during the semester, opportunities of makeup and improvement of results:

Exam: In the end of the semester written semi-final exam defines the exam grade. The exam is electronic, via the Moodle system, including multiple choice question types, and "drag and drop" question types (requiring identification). In the case of the written (electronic Moodle) test, 50% of the maximum score available must be achieved for a successful (at least satisfactory grade) test result. The written test consists of two main parts: 75% of the questions are from topics belonging to "locomotor system, internal organs", 25% of the questions are from the topics of "nervous system, sensory organs, endocrine organs, general embryology".

Midterms: 10th week and 14th week Midterms are "non-compulsory assessment", from the topics "locomotor system, internal organs" and "nervous system, sensory organs, endocrine organs, general embryology", respectively. Its form is identical with the one of the semifinal exam (electronic, Moodle test). Successful (at least 50%) midterm provides the student with the exemption of the corresponding part of the examination, and if accepted, it is counted into the result of the semifinal exam.

The Midterms are not obligatory, there is no make-up possibility.

#### **Requirements of signature:**

Attendance of a minimum of 75% of the lectures and a minimum of 75% of the practices is necessary for the end-term signature. There is no make-up possibility.

### Number and type of projects students have to perform independently during the semester and their deadlines: -

Type of the semester-end examination: signature/practical grade/<u>semi-final</u>/final

### Form of the semester-end examination:

In the end of the semester written semi-final exam defines the exam grade. The exam is electronic, via the Moodle system, including multiple choice question types, and "drag and drop" question types (requiring identification). In the case of the written (electronic Moodle) test, 50% of the maximum score available must be achieved for a successful (at least satisfactory grade) test result. In the end of the exam the students might review their tests and their correct and incorrect answers.

Prescribed practices outside of the university: -

## Scientific, course related researches, publications, assays:

#### List of teaching material:

Faller, A, Schuenke, M.: The Human Body: An Introduction to Structure and Function (Flexibook) 2004., Thieme, Stuttgart.

**Necessary equipment:** Lecture hall for the lectures. For the practices dissection practical room and histology practical laboratory, with the appropriate devices.

The course description was prepared by: Dr. Csáki Ágnes, Dr. Kocsis Katalin