

PROGRAMME OF COURSES

2020/21

Complete name of the course: Anatomy (theory) + Anatomy (practice)							
Name of the Programme: Pharmacy Basic Education							
Abbreviated name of the course: Anatomy (theory) + Anatomy (practice)							
English name of the course: Anatomy (theory) + Anatomy (practice)							
Neptun-Code: GYKANT118E1A + GYKANT118G1A							
Type of registration: obligatory							
Institute: Department of Anatomy, Histology and Embryology							
Name of the tutor/lecturer: Dr. Csáki Ágnes Phone: E-Mail: csaki.agnes@med.semmelweis-univ.hu				Academic degree: associated professor, Ph.D.			
Further tutors: Dr. Halász Vanda Dr. Herberth-Minkó Krisztina Szászné Dr. Kocsis Katalin Dr. Kozsurek Márk Pecsenye-Fejszák Nóra Dr. Puskár Zita Dr. Tóth Zsuzsanna Emese				Academic degree: assistant lecturer assistant professor, Ph.D. assistant professor, Ph.D. assistant professor, Ph.D. assistant lecturer senior research fellow, Ph.D. senior research fellow, Ph.D.			
Number of classes /week: 2 lecture / week + 2 practice / week				Credit points: 2 (GYKANT118E1A) 0 (GYKANT118G1A)			
Course principles: Principles: - to teach the terminology of the human anatomy to the future pharmacists - to discuss those special anatomical and physiological conditions, which may influence the therapeutical considerations; - to discuss those anatomical conditions, which are necessary for the understanding of the further medical subjects of the pharmacists' studies; - to teach the terminology (Latin and English) of human body parts (at a gross and microscopical anatomical level) necessary 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.							
Brief course summary: 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. During the dissection room practices the tutors discuss and demonstrate some chapters of anatomy of the locomotor system, internal organs and nervous system. During the histology lab practices, after a short introduction, the students can examine the most important sections with an electronic histology system.							
<i>Course data</i>							
Recommende d semester of completing the course	Lecture (contact hrs/ week)	Practice (contact hrs/ week)	Seminar (contact hrs/week)	Individual lecture	Total number of contact hours/semester	Semester	Consultation
2	2/week	2/week	-	-	28+28/semester	spring	-

*Semester program***I. Lecture topics/week****1. week:**

1. Introduction, Locomotor System
2. Skull, vertebral column, head, neck muscles

2. week:

3. Basic tissues I
4. Basic tissues II, Skin

3. week:

5. The Immune System, the Lymphoid Organs
6. Blood, hematopoiesis

4. week:

7. Heart, the Vascular System
8. The Respiratory System, the Mechanics of Breathing

5. week:

9. The Digestive System I, abdominal cavity
10. The Digestive System II

6. week:

11. The Liver, the Pancreas
12. The Kidneys and the Urinary tract

7. week:

13. The Female Reproductive Organs, cycle
14. The Male Reproductive Organs, Pelvis

8. week:

- 15.-16. Midterm

9. week:

17. Nervous System introduction (synapses, neurotransmitters) Spinal cord, spinal nerves
18. Central Nervous System, meninges, blood supply, CSF, Encephalon, Spinal cord, Spinal nerves

10. week:

19. Motor system, Sensory system, Limbic system
20. Cranial nerves, The Autonomic Nervous System

11. week:

21. The Eyeball and Visual system
22. The Organ of Hearing and Equilibrium.

12. week:

23. Hypothalamus, the Endocrine Organs I
24. The Endocrine Organs II

13. week:

25. Germ cells, Fertilization, Development of the fetus, Placenta,
26. Teratology

14. week:

27. Development of the Digestive System and Reproductive organs
28. Malformations

II. Practice topics/week

1. week: Introduction, upper and lower limbs

2. week: basic tissues, skin

3. week: skull, vertebral column, head, neck muscles

4. week: histology of the blood, vessels and the lymphoid organs

5. week: respiratory tract, thoracic cavity

6. week: respiratory tract histology, gastrointestinal tract histology I.

7. week: heart, large vessels

8. week: gastrointestinal tract histology II.; kidney and urinary tract histology

9. week: gastrointestinal tract, abdominal cavity

10. week: genital organs histology, spermatogenesis, oogenesis

11. week: urogenital system, pelvis

12. week: nervous system and sensory organs histology

13. week: nervous system: brain, spinal cord, cranial nerves, spinal nerves, main vessels and nerves on limbs, sensory organs

14. week: endocrine organs, placenta

Course requirements

Order of consultations:

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Prerequisites: Biology I., Medical Terminology, First Aid
Semester acceptance conditions: (<i>successful course attendance, mid-term tests, absence, etc.</i>) Attendance of a minimum of 75% of practices is necessary for the end-term signatures.
Knowledge testing during the semester: written (electronic) midterm test
Requirements of the signature at the end of the semester: Attendance of a minimum of 75% practices is necessary for the end-term signatures.
Individual activity of the student during the semester (<i>protocol, etc.</i>) -
Performance control in the examination period (<i>final, semi-final</i>) semifinal exam
Performance control in the examination period (<i>written, oral, written and oral</i>) written (electronic) semifinal exam
Prescribed external practice: -
List of teaching materials: (List of textbooks, hand-outs, scripts, etc.) Faller, A, Schuenke, M.: The Human Body: An Introduction to Structure and Function (Flexibook) 2004., Thieme, Stuttgart.
List of course materials: Lecture hall for the lectures. For the practices dissection practical room and histology practical laboratory, with the appropriate devices.
Scientific, course related researches, publications/essays: -
The course description was prepared by Dr. Csáki Ágnes, Dr. Kocsis Katalin