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| 1. Course title: Anatomy II | | | | | |
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| 2. Code: | | 3. Type (lecture, practice etc.): lecture | | | |
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| 4. Contact hours: 2 hoursper week | | 5. Number of credits (ECTS): 2 | | | |
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| 6. Preliminary conditions (max. 3):   * Anatomy 1. | | | | | |
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| 7. Announced:fall semester, X**spring semester**, both | | | | | |
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| 8. Limit for participants: 100 | | | | | |
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| 10. Responsible teacher (faculty, institute and department):  Róbert Gábriel PhD, DSc (Faculty of Science, Institute of Biology) | | | | | |
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| 11. Teacher(s) and percentage: | | Dr. Róbert GÁBRIEL | | 31% | |
| Dr. Tamás ATLASZ | | 23 % | |
| Dr. Éva TÉKUS | | 23% | |
| Dr. Márta WILHELM | | 23% | |
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| 12. Language:English | | | | | |
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| 13. Course objectives and/or learning outcomes:  Objectives: The lecture intends to introduce students to the world of human anatomy, particularly the structure of viscera and the nervous system. Besides acquiring the correct anatomical nomenclature students will learn the logic of anatomy, particularly that of the nervous system. These elements will form the basis of the physiology and sports physiology.  Learning outcomes: Students completing the course will have *knowledge* on basic human anatomy. They will be *able* to they will have a *competence* of understanding the anatomical basis of sport movements and will be able to apply it in analysing kinematographic chains. Their positive *attitude* towards innovative methods in movement analysis will increase significantly. | | | | | |
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| 14. Course outline  Week 1. General introduction to viscera. The anatomy of the respiratory system, upper and lower airways. Thorax, pleura.  Week 2. Anatomy of the abdominal cavity. Peritoneum. Intra- és retroperitoneal organs. Organs of the gastrointestinal system. Orak cavity (teeth, tongue, salivary glands). The ventriculus. Small and large intestine. Pancreas, liver. Histology and double blood supply of the liver.  Week 3. The circulatory system. Heart. The vascular system. Structure and function of the different blood vessels. Lymphoid organs and the lymph ciculation.    Week 4. The urinary system.  Week 5. The reproductory system. Anatomy of male and female sex organs. Women’s sexual cycle. The anatomy of the lower pelvis, their blood supply. Anatomy of the perineum.  Week 6. The structure and elemnts of the nervous system. The spinal cord, the parts of the brain. Meninges.  Week 7. Spinal nerves and plexuses. Spinal reflexes. Ascending and descending tracts of the spinal cord. The brain stem and the cranial nerves.  Week 8. The structure of the cerebrum and the cerebral cortex. Blood supply to the brain. Lobuli of the cerebrum, limbic and subcortical centers. Major motor and sensory pathways int he brain. Pyramidal tract.  Week 9. Subcortical gray matter, diecephalon.  Week 10. The cerebellum. Role in coordinating movements.  Week 11. The autonomic nervous system.  Week 12. The homonal system. The hypothalamo-hypophyseal axis. The pituitary gland, thyroid, parathyroid. The suprarenal organ, the pineal gland and the gonadal hormones.  Week 13-14. The sensory organs: eye, optic nerve. The veistibulocochlear system. The auditory pathways. The chemical senses. Skin and its receptors. the sense of touch. | | | | | |
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| 15. Mid-semester works  Course papers: written tests in 5th and 10th weeks. | | | | | |
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| 16. Course requirements and grading  Oral exam is based on textbooks, lectures, accessible electronic sources and lecture materials.  Grades:  0–50% fail (answer to one of the two exam questions is unsatisfactory)  51–65% acceptable  66–75% average  76–90% good  91–100% excellent | | | | | |
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| 17. List of readings   1. Gray’s Anatomy or similar standard textbooks. | | | | | |
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| 18. Recommended texts, further readings  1. An electronic textbook is available from the lecturer (Tanszékek/ Anatómia)  2.) <http://www.tfonline.hu> | | | | | |
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| **Date** | 13 April, 2017 | **Prepared by** |  | | |
| Dr. Robert GÁBRIEL  responsible teacher | | |
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| **Endorsed by** | | |  | | |
| Dr. Márk VÁCZI  program supervisor | | |