Komisija za študijske zadeve

*UL Medicinske fakultete*



**Course Regime**

*Vrazov trg 2*

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# Course: Anatomy 1

Study Programme:

Medicine

# Year of the Course: 1

Semester:

Winter and summer

# Course type:

Compulsory

# Number of ECTS credits: 14

Lecturer(s): Erika Cvetko, Marija Hribernik

Participating Organizational Units (Departments and Institutes):

Date of Issue:

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**A. General part** *(applies to compulsory and elective courses)*

## Course objectives

The students learn about systemic, topographic and clinical applicative anatomy of the chest, abdomen and extremities.

The acquired knowledge about normal anatomy will allow the students to understand how human body functions, and be the basis for identifying pathological changes.

## Comprehensive outline of the course organization

The course comprises lectures, seminars and practical classes, scheduled through the fall and spring semesters.

In the fall semester: 1 hour of lectures, 2 hours of practical classes per week; In the spring semester: 1 hour of lectures, 1 hour of seminar, and 4 hours of practical classes per week.

Students must prepare for the practical classes, i.e. learn the theoretical basis of the relevant topics. They must wear a protective face mask, protective coat and protective gloves, and bring anatomic tweezers and relevant literature, as well as a scalpel to anatomical dissection classes.

Attendance at practical classes is mandatory. Student who missed class more than 3 times must defend the missed topic in agreement with practical class instructor. Student may defend the missed topic not later than one week before the exam. Missed videoconference class or seminar can only be taken in the planned week of the videoconference class or seminar.

## Description of on-going assessment of knowledge and skills

Before the practical class starts and during the class, the instructor shall test students’ preparedness for the class (their theoretical knowledge on the relevant topic) through discussions. Attendance, preparedness for the class, and engagement during the class are preconditions for passing the practical class. Students failing to meet the target shall not pass the class and will have to take the test as specified under item 2.

## Required conditions for the final examination (Course Exam)

Students may only take the final course exam if they have successfully completed the practical classes.

## Final assessment and examination of knowledge and skills (Course Exam)

The final course examination comprises a written exam (essay type questions), and an oral exam. A passing grade for the written exam (at least 60%) is a precondition for taking the oral exam. Oral exam includes recognizing structures on anatomical specimens or images.

## Other provisions

These provisions are compliant with the Article 34 of the Rules on Examinations and Grading of Knowledge and Skills for Uniform Second Level Master's Programs Medicine and Dental Medicine. Students may only use a pen during the written exam.

Examination is based in the Catalogue of Exam Topics, and Clinical Pictures and Skills.

The list of course literature is listed below and published on the website of the Institute of Anatomy and in the e-classroom.

## Fundamental study material and Supplement reading

Textbooks Basic:

Kobe V in sod. Anatomija 1, skripta za študente medicine, Medicinska fakulteta, Ljubljana, 1988 (vse izdaje)

Kobe V in sod. Anatomija 2, skripta za študente medicine. Živčevje in čutila. Medicinska fakulteta, 2019 ali 2020, 7. predelana in dopolnjena izdaja.

Kobe V in sod. Anatomija 3, skripta za študente medicine. Obtočila in žleze z notranjim izločanjem. Medicinska fakulteta, 2019 ali 2020, 5. predelana in dopolnjena izdaja.

Kobe V in sod. Anatomija 4, skripta za študente medicine. Notranji organi in koža. Medicinska fakulteta, 2019 ali 2020, 7. izdaja.

Additional:

Hribernik M: Navodila za anatomsko sekcijo. Medicinska fakulteta, Ljubljana Moore KL: Clinically Oriented Anatomy. Williams and Wilkins, Baltimore Gray’s Anatomy, Churchill-Livingstone

Kahle, Leonhardt, Platzer: Taschenatlas der Anatomie, I. II. III. del. G. Thieme, Stuttgart

Križan Z: Kompendij anatomije čovjeka I-III, Školska knjiga, Zagreb Krmpotič-Nemanić: Anatomija čovjeka, Medicinska naklada, Zagreb Romanes GJ: Cunningham’s Manual of Practical Anatomy, I-III

Snell RS: Clinical Anatomy for Medical Students. Little, Brown and Company, Boston

Atlases

Bertolini-Leutert: Anatomski atlas I-III, Slovenska izdaja. DZS Ljubljana Feneis H: Pocket Atlas of Human Anatomy

Gilroy AM et al.: Atlas of Anatomy. New York: Thieme

Gosling et al.: Human anatomy. Colour atlas and textbook. Student consult. Edinburgh: Elsevier Kiss F, Szentágothai J: Atlas of Human Anatomy, Volumes 1-3, Springer Netherlands Leonhardt H: Color Atlas and Textbook of Human Anatomy

McMinn RMH et al.: Barvni atlas anatomije človeka. Slovenska izdaja. EWO Ljubljana Netter FH: Atlas anatomije človeka. Slovenska izdaja, Data Status, Beograd

Paulsen et al.: Sobotta Atlas of Human Anatomy, Volumes 1-3, Elsevier, Munchen Toldt-Hochstetter: Anatomischer Atlas, Urban Schwarzenberg, Munchen-Berlin Köpf-Maier, P: Wolf-Heidegger’s Atlas of Human Anatomy. Karger, Basel Schuenke M et al.: Thieme Atlas of Anatomy. Thieme, Stuttgart-New York

## Exam topics, clinical presentations and skills

Exam topics

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| **LECTURES** | **References** |
| 1. Orienation planes and directions | Kobe V in sod. Anatomija 1 |
| 2. General features of bones and joints | Kobe V in sod. Anatomija 1 |
| 3. Glenohumeral and radioulnar joints | Kobe V in sod. Anatomija 1 |
| 4. General features of muscles. Muscles of rotator cuff | Kobe V in sod. Anatomija 1 |
| 5. Spinal cord and spinal nerve | Širca A. Anatomija 2 |
| 6. General features of vascular system | Kobe V in sod. Anatomija 3 |
| 7. Brachial plexus | Kobe V in sod. Anatomija 2 |
| 8. Hand | Kobe V in sod. Anatomija 1, 3Širca A. Anatomija 2 |
| 9. Knee joint | Kobe V in sod. Anatomija 1 |
| 10. Muscles of hip and knee joints | Kobe V in sod. Anatomija 1 |
| 11. Leg muscles | Kobe V in sod. Anatomija 1 |
| 12. Vessels of the lower limb | Kobe V in sod. Anatomija 3 |
| 13. Lumbosacral plexus | Širca A. Anatomija 2 |
| 14. Leg compartments | Kobe V in sod. Anatomija 1 |
| 15. Structure and functional anatomy of the vertebralcolumn | Kobe V in sod. Anatomija 1 |
| 16. Mechanic of the respiration, pleural space | Kobe V in sod. Anatomija 4 |
| 17. Heart, pericardium | Kobe V in sod. Anatomija 3 |
| 18. Mediastinum | Kobe V in sod. Anatomija 4 |
| 19. Digestive, development of the peritoneum | Kobe V in sod. Anatomija 4 |
| 20. Liver, portal blood circulation, pancreas | Kobe V in sod. Anatomija 3 |
| 21. Urinary organs, ekstraperitoneal space | Širca A. Anatomija 2Kobe V in sod. Anatomija 3, 4 |
| 22. Female reproductive organs | Kobe V in sod. Anatomija 4 |
| 23. Abdominal wall, inguinal canal | Kobe V in sod. Anatomija 1, 3, 4Širca A. Anatomija 2 |
| 24. Situs of the abdominal organs, peritoneum | Kobe V in sod. Anatomija 4 |
| 25. Principles of internal organ innervation | Kobe V in sod. Anatomija 4Širca A. Anatomija 2 |
| 26. Vessels and lymphatic system of the abdominal andpelvic organs | Kobe V in sod. Anatomija 3 |
| **PRACTICAL CLASSES** |  |
| 1. Bones of the shoulder girdle and upper extremity | Kobe V in sod. Anatomija 1 |
| 2. Joints of the shoulder girdle and upper extremity | Kobe V in sod. Anatomija 1 |
| 3. Muscles of shoulder girdle and arm, cross-sections | Kobe V in sod. Anatomija 1 |
| 4. Muscles of the forearm, cross-sections | Kobe V in sod. Anatomija 1 |
| 5. Vessels of the upper limb, cross-sections | Kobe V in sod. Anatomija 3 |
| 6. Nerves of the upper limb, cross-sections | Širca A. Anatomija 2 |
| 7. Bones of the pelvis and lower limb | Kobe V in sod. Anatomija 1 |

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| 8. Joints of the pelvis and lower limb | Kobe V in sod. Anatomija 1 |
| 9. Muslces of the pelvis and thigh, cross-sections | Kobe V in sod. Anatomija 1 |
| 10. Muscles of the leg and foot, cross-sections | Kobe V in sod. Anatomija 1 |
| 11. Vessels of the lower limb, cross-sections | Kobe V in sod. Anatomija 3 |
| 12. Nerves of the lower limb, cross-sections | Širca A. Anatomija 2 |
| **SEMINARS AND PRACTICAL CLASSES** |  |
| 13. Bones of the back and thoracic cavity | Kobe V in sod. Anatomija 1 |
| 14. Joints of the back and thoracic cavity | Kobe V in sod. Anatomija 1 |
| 15. Muscles of the back and thoracic cavity | Kobe V in sod. Anatomija 1 |
| 16. Trachea, lung, pleura | Kobe V in sod. Anatomija 4 |
| 17. Heart: external appearance, chambers | Kobe V in sod. Anatomija 3 |
| 18. Heart: structure, vessels, pericardium | Kobe V in sod. Anatomija 3 |
| 19. Mediastinal organs | Kobe V in sod. Anatomija 3 |
| 20. Pelvis, abdominal wall and muscles | Kobe V in sod. Anatomija 1 |
| 21. Stomach, intestine, situs | Kobe V in sod. Anatomija 4 |
| 22. Pancres, liver, spleen, situs | Kobe V in sod. Anatomija 4 |
| 23. Development of the abdominal organs and peritoneum | Kobe V in sod. Anatomija 4 |
| 24. Vessels of the abdominal wall and digestive organs | Kobe V in sod. Anatomija 3 |
| 25. Retroperitoneal space, uropoetic organs | Kobe V in sod. Anatomija 4 |
| 26. Male reproductive organs | Kobe V in sod. Anatomija 4 |
| 27. Female reproductive organs | Kobe V in sod. Anatomija 4 |
| 28. Pelvic floor and pelvic vessels | Kobe V in sod. Anatomija 1, 3, 4 |
| 29. Situs of the abdominal organs, sections | Kobe V in sod. Anatomija 4 |