

**Program of Study** : **General Medicine**  
**Course** : **ANATOMY 1**  
**Abbreviation** : **NAN/VAA13**  
**Schedule** : **60 hours of lectures**  
**60 hours of practical trainings**  
**Course Distribution** : **the 1<sup>st</sup> year, 1<sup>st</sup> term**  
**Number of Credits** : **0**  
**Course Form** : **Lectures, practical trainings**

**Lectures:** Wednesday 16:00 –17:30, Thursday 8:00 –9:30, left lecture hall.

**Teacher:** RNDr. Miroslav Kutal, CSc.

	<b>Date</b>	<b>Topic</b>	<b>Hours</b>	<b>Teacher</b>
1	21. 9. 2022	Introduction to the study of anatomy, planes, directions, nomenclature.	2	Holibka
	22. 9.	General osteology and arthrology.	2	Holibka
2	28. 9.	General angiology and myology. <b>On Moodle</b>	2	Kutal
	29. 9.	Introduction to the nervous system. The structure of spinal nerve.	2	Kutal
3	5. 10.	Cervical and brachial plexus.	2	Kutal
	6. 10.	The survey of the vessels of the upper and lower limb.	2	Kutal
4	12. 10.	Lumbar and sacral plexus.	2	Holibka
	13. 10.	Connections on the vertebral column and thorax.	2	Holibka
5	19. 10.	Neurocranium.	2	Beislová
	20. 10.	Splanchnocranium. Connections on the skull bones	2	Beislová
6	26. 10.	Skull cavities and spaces.	2	Beislová
	27. 10.	Skull of a newborn. Skull as a whole.	2	Beislová
7	2. 11.	Muscles of the head and neck, thorax.	2	Vinter
	3. 11.	Muscles of the abdomen, back, pelvic floor.	2	Vinter
8	<b>7. 11.- 11.11.</b>	<b>Dissection training</b>	<b>30</b>	
9	16. 11.	Heart I.	2	Juchelka
	17. 11.	Heart II. <b>On Moodle</b>	2	Juchelka
<b>10</b>	23. 11.	Aorta and carotid arteries.	2	Beislová
	24. 11.	SVC, IVC, portal vein, azygos vein	2	Beislová
11	30. 11.	Digestive system I.	2	Kutal
	1. 12.	Digestive system II	2	Kutal
12	7. 12.	Digestive system III.	2	Kutal
	8. 12.	Peritoneum	2	Kutal
13	14. 12.	Respiratory I.	2	Kutal
	15. 12.	Respiratory system II.	2	Kutal
14	21. 12. –	Endocrine system	2	Kutal
	22. 12.	General anat. of the lymphatic system, spleen, thymus	2	Holibka
15	4. 1.	Substitute lectures	2	Kutal
	5. 1. 2023		2	Kutal

**Practical trainings:** study rooms of the anatomy department

**Leading teacher:** MUDr. Alžběta Beislová

	Date	Topic	Hours
1	20. 9. – 22. 9. 2022	Application and exercising of the anatomical nomenclature. Axial skeleton.	4
2	27. 9. – 29. 10.	Skeleton of upper and lower limb	4
3	4. 10. – 6. 10.	Joints of the upper limb and muscles of upper limb.	4
4	11. 10. – 13. 10.	Blood supply, venous and lymphatic drainage of upper limb. Innervation of upper limb.	4
5	18. 10. – 20. 10.	Joints and muscles of the lower limb.	4
6	25.10. – 27. 10.	Blood supply, venous and lymphatic drainage of lower limb. Innervation of lower limb.	4
7	1. 11. – 3. 11.	Neurocranium. Demonstration. <b>Pre-dissection discussion</b>	4
8	<b>7. 11. – 11. 11.</b>	<b>Dissection training</b> Topography of anatomical structures of upper and lower limbs	4
9	15. 11. – 17. 11.	Splanchnocranium. Skull cavities and spaces. Demonstration <b>Post-dissection discussion</b>	4
10	22. 11.– 24. 11.	Muscles of the head, neck, trunk. Muscle groups of the back. Demonstration.	<b>30</b>
11	29. 11. – 1. 12.	Heart. Aorta. Demonstration.	4
12	6. 12. – 8. 12.	SVC, IVC, azygos vein, portal vein. Lymphatic system: spleen . Demonstration . Jugular veins - microlecture	4
13	13. 12. – 15. 12.	Digestive system cranial, cervical, thoracic part – demonstration	4
14	20. 12. – 22. 12.	Digestive system abdominal part, peritoneum – demonstration	4
15	3. 1. – 5. 1.2023	Respiratory system – demonstration	4

**Completed by :** Course Unit Credit

**Requirements :**

- ⇒ the 90 % participation in the exercises
- ⇒ knowledge according to the lectures and practices topics
- ⇒ **practical knowledge of the skull (A-E evaluation)**
- ⇒ **practical knowledge of the topographical anatomy (A-E evaluation)**

**Fundamental study materials:**

1. Kahle,W., Leonhardt, H., Platzer,W.: *Color Atlas and Textbook of Human Anatomy: Vol 1-3 (Locomotor System, Internal Organs, Nervous system and Sensory Organs)*. Thieme 6<sup>th</sup>. 7<sup>th</sup> Edition.

2. Hansen, J.T. : *Netter's Clinical Anatomy with Online Access*, 4<sup>th</sup> Edition, Elsevier  
Gosling, J., Harris, P., Humpherson, J., Whitmore I., Willan, P.: *Human Anatomy, Color Atlas and Textbook* , 6<sup>th</sup> Edition, Elsevier ISBN-13: 9780723438274
3. Anatomical atlas – for example:
  - Sobota: *Anatomy Textbook*: Edited by, Tobias M. Bockers and Jens Waschke, 2019, Elsevier, ISBN:9780702067600
  - Netter H. Frank : *Anatomy Atlas* Media USA Company, 1997.
  - McMinn, R. M. H. Abrahams, P.: *McMinn's Colour Atlas of Human Anatomy* 5<sup>th</sup> Edition. Elsevier Books, 2002. ISBN 0723432120.
  - Wolf-Heidegger's: *Atlas of Human Anatomy*, Karger 1990.
  - Friedrich Paulsen, Jens Waschke: *Sobotta, Atlas of Anatomy*. ISBN: 9780323077798. Vol 1-3 General Anatomy and Musculoskeletal System, Internal Organs, Head, Neck and Neuroanatomy. Elsevier, 16<sup>th</sup> Edition 2019

**Additional study material:**

Feneis, H. Dauber, W.: *Pocket Atlas of Human Anatomy*: Based on the International Nomenclature. George Thieme Verlag, 4- 6<sup>th</sup> 2007.  
Hudák, R., Kachlík D.: *Memorix Anatomy*, Triton 1st Edition, ISBN: 978-80-7387-950-1  
Hansen, J.T.: *Netter's Anatomy Coloring ,Book* 2nd Edition ISBN-13: 9780323187985.  
Drake, Vogl, Mitchell: *Gray's Anatomy for Students*, 4th Edition ISBN: 978-0-323-39304-1  
Williams P.L.: *Gray's Anatomy*, Churchill Livingstone Elsevier