

**Program of Study : General Medicine**

**Course : Anatomy 2**

**Abbreviation : NAN/VAB13**

**Schedule : 60 hours of lectures  
45 hours of practicals**

**Course Distribution : the 1<sup>st</sup> year, 2<sup>nd</sup> term**

**Number of Credits : 13**

**Course Form : Lectures, practicals**

**Lectures: Thursday 11:30 – 13:00 (RLH) and 15:00 – 16:30, (LLH)**

**Teachers: RNDr. Miroslav Kutal, CSc., MUDr. Alžběta Beislová**

**Study: Continuos**

	<b>Date</b>	<b>Topic</b>	<b>Hours</b>	<b>Teacher</b>
1.	13. 2. 2025 13. 2.	Urinary system I. Urinary system II.	2 2	Beislová Beislová
2.	20. 2. 20. 2.	Female genital organs. Male genital organs.	2 2	Kutal Kutal
3.	27. 2. 27. 2.	Principles of structure of nervous system. Spinal cord – description and functional organization.	2 2	Kutal Kutal
4.	6. 3. 6. 3.	Brain stem: medulla oblongata, pons, rhomboid fossa, functional organization.	2 2	Kutal Kutal
5.	13. 3. 13.3.	Cranial nerves introduction. I.–VI. Cranial nerves VII.–XII.	2 2	Beislová Beislová
6.	20. 3. 20. 3.	Midbrain: structure, functional organization. Reticular formation.	2 2	Beislová Beislová
7.	27. 3. 27.3.	Cerebellum. Cerebellar pathways.	2 2	Kutal Kutal
8.	3. 4. 3. 4.	Diencephalon I. Diencephalon II. Hypophysis.	2 2	Kutal Kutal
9.	7. 4. – 11. 4.	<b>Dissection training.</b>	30	
10.	17. 4. 17. 4.	Telencephalon – gyrification, vascular supply of CNS. Telencephalon – meninges, brain ventricles.	2 2	Beislová Beislová
11.	24. 4. 24. 4.	Basal ganglia, Internal capsule. Structure of the brain cortex. Cortical areas.	2 2	Kutal Kutal
12.	1. 5. 1. 5.	Brain ventricles. Circulation of CSF. on the moodle Blood supply of the brain and spinal cord. on the moodle	2 2	Beislová Beislová
13.	8. 5.	Overview of main motor and sensory pathways of CNS. on the moodle	2	Kutal

	8. 5.	Sensory pathways I. EYE. on the moodle	2	Kutal
14.	15. 5. 15. 5.	Sensory pathways II. ANS	2 2	Beislová Beislová
15.	22. 5. 22. 5. 2025	Limbic system and its connections Substitute	2 2	Kutal Kutal

**Practical trainings :** Tuesday and Wednesday, study rooms of the anatomy department according to the schedule.

**Leading teacher:** MUDr. Alžběta Beislová.

	Date	Topic	Hours
1	11.–12. 2. 2025	Respiratory system – demonstration. Digestive system – test.	3
2	18.–19. 2.	Urinary system - demonstration.	3
3	25.–26. 2.	Reproductive system demonstration. Diaphragma urogenitale – microlecture.	3
4	4.–5. 3.	Spinal cord – demonstration.	3
5	11.–12. 3.	Brainstem – demonstration. Rhomboid fossa – microlecture.	3
6	18. –19. 3.	Cranial nerves - demonstration.	3
7	25.–26. 3.	Autonomic nervous system.	3
8	1.–2. 4.	<b>Pre-dissection discussion.</b> Cerebellum – demonstration.	3
9	<b>7. 4.–11. 4.</b>	<b>Dissection training.</b> Situs viscerum head, neck, thorax, abdomen, pelvis.	<b>30</b>
10	15.–16. 4.	<b>Post-dissection discussion.</b>	3
11	22.–23. 4.	Diencephalon – demonstration.	3
12	29.–30.4.	Telencephalon – demonstration.	3
13	6. –7. 5.	Meninges, vascular supply of CNS, Brain ventricles. Circulation of cerebrospinal fluid – demonstration.	3
14	13.–14. 5.	Nervous pathways – overview. Brain slices – demonstration.	3
15	20.–21. 5. 2025	Auditory and vestibular apparatus and their pathways microlecture. Eye demonstration.	3

**Completed by :** Unit Credit Course

**Requirements :**

- ⇒ the 90 % participation in the exercises
- ⇒ Digestive system – written test (**A-E evaluation**)
- ⇒ knowledge according to the lectures and practices topics
- ⇒ practical knowledge of the brain slices (**A-E evaluation**)
- ⇒ practical knowledge of the topographical anatomy (**A-E evaluation**)

**EXAM: Anatomy 2.** *Unit credit course of WS is required to sign up for the ANATOMY II Exam.*

### **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 ISBN-13: 9780323429702
3. Mtui, E., Grunener, G., Dockery P.: *Fitzgerald's Clinical Neuroanatomy and Neuroscience*, 7<sup>th</sup> Edition, Elsevier
4. Gosling, J., Harris, P., Humpherson, J., Whitmore I., Willan, P.: *Human Anatomy, Color Atlas and Textbook*, 6<sup>th</sup> Edition, ISBN-13: 9780723438274
5. Snell R.S.: *Clinical Neuroanatomy*, Lippincot Williams Wilkins, 2006
6. Netter H. Frank: *Anatomy Atlas*. Media USA Company, 1997
7. Valenta J., Fiala P.: *Central Nervous System Overview of Anatomy*, Karolinum UK, Prague, 2012
8. Moses K. & o Nava P. & Banks J. & Petersen D.: *Sobotta, Atlas of Anatomy*. ISBN: 9780323077798.

### **Additional study material:**

1. Rubin M.: *Netter 's Concise Neuroanatomy*, Elsevier 2008
2. Feneis, H. Dauber, W.: *Pocket Atlas of Human Anatomy: Based on the International Nomenclature*. George Thieme Verlag, 4- 6th 2007.
3. Hudák, R., Kachlík D.: *Memorix Anatomy*, Triton 1st Edition, ISBN: 978-80-7387-950-1
4. Drake, Vogl, Mitchell: *Gray's Anatomy for Students*, 3rd Edition ISBN-13: 9780702051319
5. Feneis, H. Dauber, W.: *Pocket Atlas of Human Anatomy: Based on the International Nomenclature*. George Thieme Verlag, 4- 6th 2007.
6. Hansen, J.T.: *Netter's Anatomy Coloring Book* 2nd Edition ISBN-13: 9780323187985.