

**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 and 16:00 – 17:30, right lecture hall.**

**Teachers: prof. MUDr. Vladimír Holibka, Dr.Sc., RNDr. Miroslav Kutal, CSc., MUDr. Alžběta Beislová,**

**Study: Continuos**

	<b>Date</b>	<b>Topic</b>	<b>Hours</b>	<b>Teacher</b>
1.	16. 2. 2023	Urinary system I. Urinary system II.	2 2	Holibka Holibka
2.	23. 2.	Female genital organs Male genital organs	2 2	Holibka Holibka
3.	2. 3.	Principles of structure of nervous system. Spinal cord – description and functional organization.	2 2	Kutal Kutal
4.	9. 3.	Brain stem: medulla oblongata, pons, rhomboid fossa, functional organization.	2 2	Kutal Kutal
5.	16. 3.	Cranial nerves introduction. I.–VI. Cranial nerves VII.–XII.	2 2	Kutal Kutal
6.	23. 3.	Midbrain: structure, functional organization Reticular formation	2 2	Holibka Holibka
7.	<b>27. – 31. 3.</b>	<b>Dissection training</b>	30	
8.	6. 4.	Cerebellum: structure, funct. organization. Cerebellar pathways	2 2	Kutal Kutal
9.	13. 4.	Diencephalon I. Diencephalon II. Hypophysis.	2 2	Kutal Kutal
10.	20. 4.	Telencephalon I. Telencephalon II. Meninges.	2 2	Kutal Kutal
11.	27. 4.	Basal ganglia, Internal capsule. Structure of the brain cortex. Cortical areas.	2 2	Kutal Kutal
12.	4. 5.	Brain ventricles. Circulation of CSF. Blood supply of the brain and spinal cord.	2 2	Beislová Beislová
13.	11. 5.	Overview of main motor and sensory pathways of CNS. Sensory pathways I. EYE	2 2	Holibka Holibka
14.	18. 5.	Sensory pathways II. ANS	2 2	Holibka Holibka
15.	25. 5. 2023	Limbic system and its connections Substitute	2 2	Holibka Holibka

**Practical trainings :** Wednesday, studyrooms of the anatomy department according to the schedule.

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

	<b>Date</b>	<b>Topic</b>	<b>Hours</b>
1	15. 2. 2023	Respiratory system – demonstration, situs viscerum.	3
2	22. 2.	Urinary system demonstration.	3
3	1. 3.	Reproductive system demonstration. Diaphragma urogenitale – microlecture.	3
4	8. 3.	Spinal cord – demonstration.	3
5	15. 3.	Medulla oblongata and pons – demonstration. Rhomboid fossa – microlecture.	3
6	22. 3.	Cranial nerves demonstration. <b>Pre-dissection discussion.</b>	3
7	<b>27. – 31. 3.</b>	<b>Dissection training.</b> Situs viscerum head, neck, thorax, abdomen, pelvis.	3
8	5. 4.	Midbrain brain – demonstration. <b>Post-dissection discussion.</b>	<b>30</b>
9	12. 4.	Cerebellum – demonstration.	3
10	19. 4.	Diencephalon demonstration.	3
11	26. 4.	Telencephalon – demonstration.	3
12	3. 5.	Brain ventricles. Circulation of cerebrospinal fluid. Demonstration.	3
13	10. 5.	Meninges, vascular supply of CNS, brain slices – demonstration.	3
14	17. 5.	Auditory and vestibular apparatus and their pathways microlecture. Eye demonstration.	3
15	24. 5. 2023	Credit. Substitute.	3

**Completed by :** Unit Credit Course

**Requirements :**

- ⇒ the 90 % participation in the exercises
- ⇒ knowledge according to the lectures and practices topics
- ⇒ practical knowledge of the brain slices
- ⇒ practical knowledge of the topographical anatomy

**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*, 7th 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.