

**Program of Study** : Dentistry  
**Course** : ANATOMY  
**Abbreviation** : NAN/ZAB11  
**Schedule** : 60 hours of lectures  
45 hours of practical trainings  
**Course Distribution** : 1<sup>st</sup>year, 2<sup>nd</sup> term  
**Number of Credits** : 13  
**Course Form** : Lectures, practical trainings  
**Lectures** : Thursday 11:30 – 13:00 (RLH) and 15:00 – 16:30, (LLH)

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

		<b>Subject</b>	<b>Hours</b>	<b>Teacher</b>
1	13. 2. 2025	Urinary system I.	2	Holibka
		Urinary system II.	2	Holibka
2	20. 2.	Female genital organs.	2	Beislová
		Male genital organs.	2	Holibka
3	27. 2.	Principles of structure of nervous system.	2	Kutal
		Spinal cord – description and functional organization.	2	Kutal
4	6. 3.	Brain stem: medulla oblongata, pons, rhomboid. fossa, functional organization.	2	Kutal
			2	Kutal
5	13. 3.	Cranial nerves introduction. I.–VI.	2	Beislová
		Cranial nerves VII.–XII.	2	Beislová
6	20. 3.	Midbrain: structure, functional organization.	2	Holibka
		Reticular formation.	2	Holibka
7	27. 3.	Cerebellum: structure, funct. organization.	2	Kutal
		Cerebellar pathways.	2	Kutal
8	3. 4.	Diencephalon I.	2	Kutal
		Diencephalon II. Hypophysis.	2	Kutal
9	10. 4.	Inervation and blood supply of the teeth.	2	Kikalová
		Pathways of the pain.	2	Kikalová
10	17. 4.	Telencephalon – gyrification, vascular supply of CNS.	2	Beislová
		Telencephalon – meninges, brain ventricles.	2	Beislová
11	24. 4.	Basal ganglia, Internal capsule.	2	Beislová
		Structure of the brain cortex. Cortical areas.	2	Beislová
12	1. 5.	Brain ventricles. Circulation of CSF. ON THE MOODLE	2	Beislová
		Blood supply of the brain and spinal cord. ON THE MOODLE	2	Beislová
13	8. 5.	Overview of main motor and sensory pathways of CNS.	2	Holibka
		Sensory pathways I. EYE. BOTH ON THE MOODLE	2	Holibka
14	15. 5.	Sensory pathways II.	2	Holibka
		Autonomic nervous system.	2	Holibka
15	22. 5. 2025	Limbic system and its connections.	2	Holibka
		Substitute.	2	Holibka

**Practical trainings** :

**Leading teacher:** Kikalová

**Study :** Continuous, Tuesday, 15:00 – 17:15; Friday 8:30 –10:45. NAU1

	<b>Date</b>	<b>Subject</b>	<b>No. of Less.</b>
1	11. 2. 2025	The digestive system, demonstration.	3
2	18. 2.	Situs viscerum abdominis.	3
3	25. 2.	Respiratory system – nasal cavity, larynx, demonstration.	3
4	4. 3.	Respiratory system – trachea, bronchi, lungs, demonstration.	3
5	11. 3.	Urinary system – demonstration.	3
6	18. 3.	Genital system – demonstration.	3
7	25. 3.	Central nervous system – spinal cord, oblongata, pons demonstration.	3
8	1. 4.	Cranial nerves I. – demonstration.	3
9	8. 4.	The cranial nerves II. – demonstration.	3
10	15. 4.	Cerebellum, mesencephalon – demonstration.	3
11	22. 4.	Diencephalon, hypophysis – demonstration.	3
12	29. 4.	Telencephalon – demonstration.	3
13	6. 5.	Central nervous system – blood supply, meninges, ventricles demonstration.	3
14	13. 5.	Endocrine system – demonstration.	3
15	20. 5. 2025	Senses – demonstration.	3

**Completed by :** Course Unit Credit

**Requirements :**

- ⇒ the 90 % participation in the exercises
- ⇒ knowledge according to the practices' and lectures' topics
- ⇒ practical knowledge of the cervical organs, structures on the cadaver, CNS

**Fundamental literature:**

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).Thiemes 1993, published in Germany.
2. <http://www.nan.upol.cz/en/studying.html>-

**Other literature:**

3. Norton N.S. Netter's head and Neck Anatomy for Dentistry: Elsevier 2007
4. Rubin M.: Netter's Concise Neuroanatomy. Elsevier 2008
5. Feneis, H. - Dauber, W. (ed.). Pocket Atlas of Human Anatomy: Based on the International Nomenclature. George Thieme Verlag, 2000. ISBN: 3135112047.
6. Wolf-Heidegger's Atlas of Human Anatomy. Karger 1990, published in Switzerland.
7. Netter H. Frank : Anatomy atlas. Media USA Company, 1997.
8. Richard L. Drake, Wayne Vogl, Adam W. M. Mitchell: Gray's Anatomy for the students. Elsevier 2009.
9. 6. [www.bartleby.com](http://www.bartleby.com), <http://ect.downstate.edu/courseware/>
10. Romanes G.J.: Cunningham's manual of practical anatomy. Vol 1 - 3. Oxford University Press. 1986.

11. Wolf-Heidegger's atlas of human anatomy. Karger. 1990.
12. Dubový P. Gross anatomy and structure of the human nervous system. Masaryk University Brno, 1999.