

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

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

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

## Practical trainings :

**Leading teacher:** MUDr. Jan Juchelka

**Study :** Continuous, Tuesday, 16: 00 – 18:15. NAU1

	<b>Date</b>	<b>Subject</b>	<b>No. of Less.</b>
1	14. 2. 2023	The digestive system II, demonstration.	3
2	21. 2.	Situs viscerum abdominis.	3
3	28. 2.	Respiratory system – nasal cavity, larynx, demonstration.	3
4	7. 3.	Respiratory system – trachea, bronchi, lungs, demonstration.	3
5	14. 3.	Urinary system – demonstration.	3
6	21. 3.	Genital system – demonstration.	3
7	28. 3.	Central nervous system – spinal cord, oblongata, pons demonstration	3
8	4. 4.	Cranial nerves I. – demonstration	3
9	11. 4.	The cranial nerves II. – demonstration	3
10	18. 4.	Cerebellum, mesencephalon – demonstration	3
11	25. 4.	Diencephalon, hypophysis – <b>demonstration</b>	3
12	2. 5.	Telencephalon – demonstration.	3
13	9. 5.	Central nervous system – blood supply, meninges, ventricles demonstration.	3
14	16. 5.	Endocrine system - demonstration.	3
15	23. 5. 2023	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 skull (A–E)

### **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.