

**Academic Year 2016/2017**  
**Faculty of Dentistry, 3rd Semester**  
**ED II. 1 – 4**

Week	LECTURE <i>Tuesday 8.00-9.40</i> <i>Wednesday 15.00-15.45</i>	DISSECTION <i>Mondays 8.00-9.30</i> <i>Fridays 14.00-15.30</i>	HISTOLOGY <i>Mondays</i>
Week 1 Sept. 5-9.	1. <b>Introduction to the study of the nervous system</b> <b>Meninges, hemispheres, the lateral ventricles</b> 2. <b>Gross anatomy of the diencephalon, the III. ventricle</b> 3. <b>Gross anatomy of the brainstem and the cerebellum</b> <b>The IV. ventricle</b>	Divisions of the brain, meninges, arteries and veins of the brain, surface structures of the hemispheres, basis cerebri. Specimen demonstration: dura mater, sinuses	
Week 2. Sept. 12-16.	4. <b>Blood supply to the brain, CSF circulation</b> 5. <i>Differentiation of the neural tube, development of the spinal cord. Neural crest</i> 6. <i>Differentiation of the brain vesicles</i>	Lateral ventricles, third ventricle  Brain stem, fourth ventricle, cerebellum	
Week 3. Sept. 19-23.	7. <b>Gross anatomy of the spinal cord, spinal segment</b> <b>Dermatomes</b> 8. Neuronal architecture of the spinal cord: proprioceptive and nociceptive (withdrawal) reflex arcs. 9. Neuronal architecture of the spinal cord: autonomic reflex arc. Spinal pathways	Cross sections of the brain. Specimen demonstration: spinal cord together with the membranes	
Week 4. Sept. 26-30.	10. <b>Introduction to cranial nerves. Classification of sensory, motor and autonomic nuclei</b> 11. Microscopy of the brainstem: tracts and nuclei of the medulla oblongata 12. Microscopy of the brainstem: tracts and nuclei of the pons and midbrain. Reflex arc of mastication	Fine structure of spinal cord. Revision  <b>1<sup>st</sup> midterm test: Anatomy and development of the brain and the spinal cord</b>	
Week 5. Oct. 3-7.	13. Cells of the CNS: neurones (axon, dendrite, synapses) 14. Cells of the CNS: glia cells 15. Microscopy of the diencephalon	Dissection of limbs. Microscopy of the CNS	<b>Nervous system I.</b>
Week 6. Oct. 10-14. <b>Oct. 15.</b> <b>Saturday is a „Monday“</b>	16. Microscopy of the cerebral cortex 17. Sensory systems, neuroanatomy of pain 18. Microscopy of the cerebellum, pathways	Dissection of limbs. Microscopy of the CNS ----- <b>Dissection class on Saturday</b>	
Week 7. Oct. 17-21.	19. Structure and connections of the basal ganglia Motor pathways 20. <b>Trigeminal nerve, ophthalmic division</b> 21. <b>Trigeminal nerve maxillary division</b> 21. <b>Trigeminal nerve, mandibular division</b>	Dissection of limbs. Microscopy of the CNS <b>No class on Friday</b>	<b>Nervous system II.</b>
Week 8. Oct. 24-28.	22. <b>Facial and glossopharyngeal nerves</b> 23. <b>Vagus, accessory and hypoglossal nerves</b> 24. The hypothalamo-hypophysial system. The pituitary gland	<b>2<sup>nd</sup> midterm test: Microscopic structure of the central nervous system (written test)</b>  Dissection of limbs. Demonstration of head and neck regions. Cranial nerves	
Week 9. Oct. 31-Nov. 4. <i>Oct.31 and Nov.1 are holidays</i>	<b>25- National holiday</b> <b>26- National holiday</b> 27. Endocrine organs: pineal body, thyroid, parathyroid, adrenal glands	<b>No class on Monday</b>  Dissection of limbs. Demonstration of head and neck regions. Cranial nerves	
Week 10. Nov. 7-11.	28. <b>Skin and appendages. Mammary gland</b> 29. The topographical anatomy of limbs 30. <b>Fibrous and vascular coats of the eyeball.</b>	Dissection of limbs. Demonstration of head and neck regions. Cranial nerves. Dissection of the eye	<b>Endocrine organs</b>
Week 11. Nov. 14-18.	31. <b>Lens, chambers of the eye, vitreous body, accommodation</b> 32. <b>Inner coat of the eyeball, retina</b> Optic nerve, visual pathway, visual cortex 33. <b>External muscles and movements of the eye</b>	Dissection of limbs. Demonstration of head and neck regions. Cranial nerves.	
Week 12. Nov. 21-25.	34. <b>Protective and lacrimal apparatus of the eye. Development of the eye</b> 35. <b>External ear, auditory tube, tympanic cavity, tympanic membrane, auditory ossicles</b> 36. <b>Bony and membranous labyrinth</b>	<b>3<sup>rd</sup> midterm test: Topographical anatomy of the limbs, spinal nerves, cranial nerves</b> Demonstration of head and neck regions Organs of special senses	<b>Organs of special senses I.</b>
Week 13. Nov. 28- Dec.2.	37. <b>Spiral organ of Corti. Development of the auditory and vestibular system</b> 38. Auditory pathway, auditory cortex 39. <b>Vestibular system</b>	Demonstration of head and neck regions Organs of special senses	<b>Organs of special senses II.</b> <b>Skin and mammary gland</b>
Week 14. Dec. 5-9.	40. <b>Olfactory and gustatory systems</b> 41. Limbic system 42. Parasympathetic and sympathetic nervous systems	Demonstration of head and neck regions Organs of special senses	