ll year (1st semester) A.Y. 2021-22	Scientific Field	HUMAN ANATOMY II	TUTOR	ECTS
	BIO/16	Human Anatomy	Dolci Susanna	4
	BIO/16	Human Anatomy	Pellegrino Rossi	1
			TOT	5
Rossi P. COORDINATOR				

PROGRAM	 MICROSCOPIC STRUCTURES UNDERLYING THE FUNCTIONING OF THE NERVOUS SYSTEM: sensory receptors (proprioceptors and esteroceptors), neurons, glia, myelin, synapses. 	
	- GENERAL ORGANIZATION OF CONSCIOUS AND UNCONSCIOUS SENSITIVE PATHWAYS.	
NEUROANATOMY	- SPINAL CORD: gray and white matter of the spinal cord, the reflex arcs.	
	- BRAIN STEM: medulla oblongata, pons, midbrain, peduncles, main gray formations, links with other districts of the CNS.	
	- CEREBELLUM: microscopic structure, afferent and efferent pathways.	
	 DIENCEPHALON: thalamus, epithalamus, subthalamus, metathalamus, the bulb – diencephalic reticular formation, the hypothalamus. 	
	- TELENCEPHALON: the basal ganglia, cerebral hemispheres, cortical areas and systems of association; histological structure of the cerebral cortex, the limbic lobe and the hippocampus.	
	- FUNCTIONAL SYSTEMS: pyramidal and extrapyramidal pathways, the pathways of epicritic and protopathic sensitivity.	

- CRANIAL NERVE NUCLEI AND THEIR FUNCTIONAL SPECIALIZATION.

TEXTBOOKS	- Gray's Anatomy (latest edition)
	- SUPPLEMENTARY TEXT (For Neuroanatomy): Clinical Neuroanatomy (R. Snell, latest edition)
	- ATLAS: Netter (latest edition)
EXAM METHOD	Oral exams.

EXAM COMMISSION

The Coordinator, full Professors of the disciplines, Professors of similar disciplines, Specialists of the subject, compose the exam Commission of the Integrated Course.

Pellegrino Rossi, President	
Susanna Dolci, component	

CONTACTS

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Dolci Susanna	dolci@uniroma2.it	0672696252

PREREQUISITES: Previous knowledge and competence in the following subjects:

Human Anatomy 1, Chemistry and Introductory Biochemistry, Histology and Embryology, Biology and Genetics.

The specific learning outcomes of the program are coherent with the general provisions of the Bologna Process and the specific provisions of EC Directive 2005/36/EC. They lie within the European Qualifications Framework (Dublin Descriptors) as follows:

1. Knowledge and Understanding

- Provide a detailed description of the topography and structural organization of the brain and spinal cord as well as the ultrastructure of neurons and glia and the major cytoarchitectural features of the brain and spinal cord.
- Obtain an understanding of the functional anatomy of sensory and motor processing and higher cerebral functions such as language and emotions.
- Achieve the ability to integrate from the cellular and molecular level to the organ system level of organization and realize the fundamental role of the nervous system in the maintenance of a proper internal environment.
- Understand the principles of blood supply and venous drainage of the nervous system. To be able to deduce the effects of rupture or occlusion of the major vessels.
- Present an overview of the main mechanism of organogenesis and the consequences of specific alterations.

2. Applying Knowledge and Understanding

- Apply the theoretic knowledge to the clinical setting, being able to recognize the general diagnostic aspects of the nervous system diseases.
- To obtain a basic understanding of the techniques used to investigate morphology and connections of neurons to provide the basis for further research into the nervous system.
- Approach to the main functional diagnostic tests used to assess the activities of the nervous system and learn how to differentiate the physiological and pathological results.
- Provide a differential diagnosis based on specific clinical data, providing a comprehensive explanation of the underlying reasoning.
- Learn the practical aspects of the diagnostic instruments, when to use them and how to perform them.

3. Making Judgements

- Recognize the importance of an in-depth knowledge of the topics consistent with a proper medical education.
- Identify the fundamental role of a proper theoretic knowledge of the subject in the clinical practice.

4. Communication Skills

- Present topics orally in an organized and consistent manner.
- Use of proper scientific language coherent with the topic of discussion.

5. Learning Skills

- Identify the possible use of the acknowledged skills in the future career.Assess the importance of the acquired knowledge in the overall medical education process.