CdS Medicine and Surgery

1st year (1st – 2nd semester) A.Y. 2026-27	COD:	Scientific Field HUMAN ANATOMY I Modules	TUTOR - Docente	ECTS - CFU
	BIO/16	Human Anatomy Module I	BARCHI MARCO	5
		Human Anatomy Module II	BARCHI MARCO	5
COORDINATOR				
BARCHI MARCO				
			TOT	10

SPECIFIC AIMS :	EN: The educational objectives of the human anatomy course include the acquisition of anatomical terminology, a theoretical understanding of the major anatomical structures, a description of the body's systems and architecture at the macroscopic and microscopic levels, knowledge of the location of organs and their relationships with adjacent structures, the study of the vascularization of all organs and associated structures, and the identification of bones, muscles, and tendons; the identification of anatomical structures based on their topographical location; and the correlation between anatomical and functional aspects to understand the consequences of abnormalities.
OBIETTIVI FORMATIVI:	IT: Gli obiettivi formativi del corso di anatomia umana includono la acquisizione della terminologia anatomica, la comprensione teorica delle strutture anatomiche principali, la descrizione dei sistemi e delle architetture corporee a livello macroscopico e microscopico, la conoscenza della localizzazione degli organi e delle loro relazioni con le strutture adiacenti, lo studio della vascolarizzazione di tutti gli organi e strutture associate, e l'identificazione di ossa, muscoli e tendini, la identificazione dalla posizione topografica delle strutture anatomiche, la correlazione tra aspetti anatomici e funzionali per comprendere le conseguenze di alterazioni.

SYLLABUS - PROGRAMMA **Module I/Modulo I** LOCOMOTOR APPARATUS – APPARATO LOCOMOTORE	EN: Introduction to the systematic study on the locomotor apparatus will be a discussion of the anatomical terminology: section types, terms of location and terms of movement. We will also describe the major topographic and functional subdivisions of the human body and surface anatomy. • **OSTEOLOGY**: Morphology of the human skeleton: the axial skeleton, the exo and endocranium with description of main nerves crossing skull foramina, the skeleton of the appendages. • **ARTHROLOGY**: General information on joints, types of movements, joint dynamics. Joints of the skull, spine, chest, upper limb and lower limb. • **MYOLOGY**: Shape and action of skeletal muscle; vertebral muscles of the neck and trunk, muscles of the chest, abdomen, muscles of upper and lower limbs. NOTE: skeletal muscles of the splanchnocranium, of the pelvic and urogenital diaphragm are only partially covered by the program of Human Anatomy I, but they will be treated in more detail with the cardiovascular system, microscopic anatomy and splanchnology in the second half of Human Anatomy. IT: Introduzione allo studio sistematico dell'apparato locomotore sarà una discussione sulla terminologia anatomica: tipi di sezioni, termini di localizzazione e termini di movimento. Descriveremo anche le principali suddivisioni topografiche e funzionali del corpo umano e l'anatomia di superficie. • **OSTEOLOGIA**: Morfologia dello scheletro umano: lo scheletro assile, l'eso e l'endocranio con descrizione dei principali nervi che attraversano i forami cranici, lo scheletro degli arti. • **ARTROLOGIA**: Informazioni generali sulle articolazioni, tipi di movimento, dinamica articolare. Articolazioni del cranio, della colonna vertebrale, del torace, dell'arto superiore e dell'arto inferiore. • **MIOLOGIA**: Forma e azione del muscolo scheletrico; muscoli vertebrali del collo e del tronco, muscoli del torace, addome, muscoli degli arti superiori e inferiori. NOTA: i muscoli scheletrici dello splancnocranio, del diaframma pelvico e urogenitale sono trattati solo parzialmente nel programma di Anatomia Umana I, ma saranno trattati più in dettaglio con il sistema cardiovascolare, l'anatomia microscopica e la splancnologia nella seconda metà di Anatomia Umana.
SYLLABUS- PROGRAMMA	EN: • General organization of the vascular and lymphatic system. • Pericardium, heart and vessels of the torax and abdomen. • spleen. • main arteries and veins of the head, neck and limbs.

Module II/Modulo II CARDIOVASCULAR APPARATUS, ORGANS AND MICROSCOPIC ANATOMY – APPARATO CARDIOVASCOLARE, ORGANI E ANATOMIA MICROSCOPICA	all organs listed below will be studied at the macroscopic and microscopic level, including relations with neighbouring structures and organs, their vascularization and innervation. • Oral Cavity, teeth, tongue, muscles of the mouth and of the face, salivary glands. • Nasal cavities and paranasal sinuses. • Muscles of the neck (cervical, superficial and lateral muscles). • Pharynx and Larynx. • Trachea, bronchi, lungs and pleura. • The mediastinum. • Development of the digestive system. Peritoneum and peritoneal cavity: lesser sac and peritoneal recesses. • Gastrointestinal tract: esophagus, stomach, small and large intestine, rectum. • Muscles of the abdomen and of the pelvis. • Liver and pancreas. • Urinary tract: kidney, ureter, bladder and urethra. • Male and female reproductive system. • Endocrine system: Hypophysis, thyroid and parathyroid glands, endocrine pancreas, adrenal gland, gonads. IT: • Organizzazione generale del sistema vascolare e linfatico • pericardio, cuore e vasi del torace e dell'addome • milza • principali arterie e vene della testa, del collo e degli arti Tutti gli organi elencati di seguito saranno studiati a livello macroscopico e microscopico, incluse le relazioni con le strutture e gli organi vicini, la loro vascularizzazione e innervazione. • Cavità orale, denti, lingua, muscoli della bocca e del viso, ghiandole salivari. • Cavità nasali e seni paranasali. • Muscoli del collo (muscoli cervicali, superficiali e laterali). • Faringe e laringe. • Trachea, bronchi, polmoni e pleura. • Il mediastino. • Sviluppo del sistema digerente, Peritoneo e cavità peritoneale: omento minore e recessi peritoneali • Tratto gastrointestinale: esofago, stomaco, intestino tenue e crasso, retto. • Muscoli dell'addome e della pelvi. • Fegato e pancreas. • Vie urinarie: rene, uretere, vescica e uretra.

	• Sistema riproduttivo maschile e femminile. • Sistema endocrino: ipofisi, tiroide e paratiroidi, pancreas endocrino, ghiandola surrenale, gonadi.

TEXTBOOKS	- Gray's Anatomy (latest edition) Churchill Livingstone, Elsevier. - Anastasi, Cannas, Cavalletti…Human Anatomy (Edi Ermes) - ATLAS: Atlas of Human Anatomy, Frak H. Netter (latest edition) Elsevier.
TESTI DI RIFERIMENTO	- Gray's Anatomy, Churchill Livingstone, Elsevier. - Anastasi, Cannas, Cavalletti…Human Anatomy (Edi Ermes) - ATLAS: Atlas of Human Anatomy, Frak H. Netter (latest edition) Elsevier.

TEACHING METHODS	EN: Lectures with the aid of PowerPoint presentations and videos. During the lessons, guided practical classes and free viewing of anatomical models will be offered in the anatomy practice room.
METODI DIDATTICI	IT: Lezioni frontali, con l'ausilio di presentazioni power point e video. Nel corso delle lezioni saranno offerte esercitazioni pratiche guidate e visione libera dei modelli anatomici, presso l'aula di esercitazione di anatomia.

EXAM METHODS	EN: Oral exam, eventual practical or written tests.
MODALITA' DI VALUTAZIONE	IT: Esami orali ed eventuali test pratici o scritti.

EXAM COMMISSION	EN: The Coordinator, Associate Professors and Researchers of the discipline, Professors of similar disciplines, Specialists of the subject, compose the exam Commission of the Integrated Course. IT: Il coordinatore, i professori associati e i ricercatori della disciplina, i professori di discipline affini e gli esperti in materia costituiscono la commissione d'esame del corso integrato.

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PREREQUISITES-PREREQUISITI	EN: Previous knowledge and competence in basic Anatomy. IT: Conoscenze preliminari della anatomia umana

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**

- Demonstrate a comprehensive theoretical knowledge of the main anatomic structures.
- Describe the composition of body systems and architectures from a microscopic and macroscopic point of view.
- Understand the importance of knowing organs location and their relation with adjacent structures.
- Relate the anatomical and functional aspects in order to figure out the consequences of possible alterations or malfunctions.
- Learn the vascularization of all the human body organs and associated structures (bones, muscles or tendons).
- Identify bones, muscles and tendons from their anatomic position.

2. **Applying Knowledge and Understanding**

- Apply the theoretical knowledge to the clinical setting.

- Identify and recognize the proper anatomic structures and tissues using laboratory and microscopic techinques giving a comprehensive description.
- Learn the practical aspects of microscopic investigations and how to perform them.
- Focus on the description of the main anatomic landmarks used in the clinical setting.
- Identify the major anatomic structures in order to understand possible anatomic structures physiology, alterations and pathologies.

3. **Making Judgements**

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

4. **Communication Skills**

- Present the 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.