

Course Title	Anatomy and Histology II				
Course Code	NURS102				
Course Type	Compulsory				
Level	Undergraduate (Level 1)				
Year / Semester	1 st Year / Winter Semester				
Instructor's Name	Dr George Miltiadous, Dr Charis Neocleous				
ECTS	5	Lectures / week	3	Laboratories / week	1
Course Objectives	<p>The main objective of the course is to familiarise students with the descriptive, topographic, and especially with the clinical anatomy, as well as to introduce students to the human histology. A focus will be put on the understanding of the structure and the architecture of the internal organs and the systems of the human body and the interaction between those systems. To provide students with a thorough understanding of the microscopic appearance and function of normal structures in the human body so that to integrate this information with other disciplines such as Anatomy, Pathology, Physiology and Embryology.</p>				
Learning Outcomes	<p>By the end of the course, students are expected to be able to:</p> <ol style="list-style-type: none"> 1. To acquire a basic background in histology, to understand the properties of cells and their interactions with one another, as components of tissues and organs and to understand how structure and function correlate at the microscopic level. 2. Understand and describe the surface anatomy of the human body. 3. To be able to describe the normal structure and function of various cell types, tissues, and organs. 4. Recognize, identify and describe the characteristic structures of cells and tissues of the human body 5. Know and understand the characteristics of tissues of the human body (epithelium, connective, muscle, nerve) and their relationships in the various organ systems of the human body. 6. Define the anatomic relations of the various anatomic structures of the human body. 7. Describe, define and name the anatomic parts of the systems and the internal organs of the human body. 8. Describe the histological structure of the various structures of the human body. 9. Analyse the relation between the anatomic, histological and cellular structures of the human body with the normal and 				

	abnormal clinical profile.		
Prerequisites	No	Required	No
Course Content	<p>Theory:</p> <p><u>Gastrointestinal System</u></p> <ul style="list-style-type: none"> - Morphological organization and development of the gastrointestinal system. The organs of the gastrointestinal tract: oral cavity- pharynx- esophagus-stomach-small intestine-large intestine, liver-pancreas-saliva, Spleen <p><u>Urinary System</u></p> <ul style="list-style-type: none"> - Morphological organization and development of the renal and Urinary System. - Kidneys: position, shape, macroscopic anatomy, microscopic anatomy (the nephron and its parts). - Renal pelvis - ureters - bladder - urethra <p><u>Reproductive System</u></p> <ul style="list-style-type: none"> - Morphological organization and development of the Female Reproductive System and the Male Reproductive System - Reproductive system of man and woman <p><u>Nervous System</u></p> <ul style="list-style-type: none"> - Cerebellar nervous system CNC (Parts of the brain-meninges-lymph nodes -cerebrospinal fluid – Spinal cord). - PNS (Peripheral nervous system) - Autonomous nervous system: sympathetic-parasympathetic. <p><u>Endocrine System</u></p> <ul style="list-style-type: none"> - Morphology of endocrine system. - Endocrine glands (Pituitary, Hypothalamus, Thyroid gland, Parathyroid glands, Thymus gland, Pancreas, Adrenals) <p><u>Sense Organs</u></p> <ul style="list-style-type: none"> - The organ of sight-the eye (anatomic description). - The organ of hearing and balance-the ear (anatomic description). <p><u>Basic Elements of Embryology II</u></p> <p>Laboratory:</p> <ul style="list-style-type: none"> - Gastrointestinal System - Urinary System - Reproductive System - Nervous System - Endocrine System - Sense Organs - Superficial Anatomy 		
Teaching Methodology	<p>Theory</p> <p>The course is delivered to the students through lectures, using computer-based presentations programmes. Case Studies, Discussion, Questions /</p>		

	<p>Answers are also used depending on the content of the lecture. Lecture notes and presentations are available online for use by students in combination with textbooks. Relevant material published in international scientific journals are also used to follow the latest developments related to the subject of the course.</p> <p>Laboratory</p> <p>During the laboratory coursework, students develop their clinical skills and lab assistants demonstrate and explain the human skeleton and body organs in anatomical models, anatomy charts and microscopes for microscopic observation of cells and tissues.</p>
Bibliography	<p>(a) <u>Textbooks:</u></p> <p>Drake, R. L. (2019). <i>Gray's anatomy for students and Paulsen: Sobotta, Atlas of Anatomy</i>. Churchill Livingstone.</p> <p>Gartner, L. P. (2021). <i>Textbook of histology</i>. Elsevier.</p> <p>Paulsen, F. & Waschke, J. (2017). <i>Sobotta, Άτλας Ανατομικής του Ανθρώπου</i> (23^η εκδ.). Εκδόσεις Παρισιάνου. (In Greek)</p> <p>Gartner, L. (2018). <i>Ιστολογία</i> (4^η εκδ.). Εκδόσεις Παρισιάνου. (In Greek)</p> <p>(b) <u>References:</u></p> <p>Carlson, M. (2019). <i>Human Embryology and Developmental Biology</i>. Elsevier Gezondheidszorg.</p> <p>Carlson, M. (2021). <i>Ανθρώπινη Εμβρυολογία Και Αναπτυξιακή Βιολογία</i> (6^η εκδ.). Εκδόσεις Παρισιάνου. (In Greek)</p> <p>Μαυρικακη, Ε. (2015). <i>Άτλας Ανατομίας</i>. Εκδ. Πατάκη (In Greek)</p> <p>Watson, R. (2011). <i>Anatomy and Physiology for Nurses</i>. ELSEVIER</p> <p><i>Through the services of the university library, access is provided to electronic repositories of scientific journals and articles, indicatively ProQuest, Cambridge University Press and Science Direct with thousands of scientific journals in the fields of health sciences.</i></p>
Assessment	<p>The evaluation of the course consists of continuous assessments (coursework: mid-term examination, laboratory work evaluation, clinical teaching evaluation, written assignment, active participation in the classroom) and final examination.</p> <p>Mid-term Exam: 30%. A written mid-term exam will be comprised by multiple choice questions, short-answer and open questions.</p>

	<p>Laboratory assignments: 10%. Laboratory assessment consists of a practical assignment on various topics on Anatomy and Histology.</p> <p>Student participation: 10%. Participation in the classroom includes educational assessments with interactive problem-solving questions.</p> <p>Final Exam: 50%. A written final exam will be comprised by multiple choice questions, short-answer and open questions.</p>
Language	Greek / English