

## COURSE OUTLINE “HISTOLOGY”

### 1. GENERAL

<b>SCHOOL</b>	HEALTH SCIENCES		
<b>DEPARTMENT</b>	MOLECULAR BIOLOGY AND GENETICS		
<b>STUDY LEVEL</b>	ISCED LEVEL 6		
<b>COURSE CODE</b>	<b>MBG601</b>	<b>SEMESTER</b>	4 <sup>th</sup> and 8 <sup>th</sup>
<b>COURSE TITLE</b>	HISTOLOGY		
<b>TEACHING ACTIVITIES</b>	<b>HOURS/WEEK</b>	<b>ECTS CREDITS</b>	
<i>In case credits are awarded to individual components of the course eg. Lectures, laboratory practicals, etc. If credit units are awarded for the whole course, indicate the weekly teaching hours and total credits</i>	2	3	
<b>COURSE TYPE</b> <i>General, Background, Scientific field course, Expertise Course, Skills Development etc</i>	SCIENTIFIC FIELD		
<b>PREREQUISITE COURSES:</b>	NO		
<b>LANGUAGE OF TEACHING AND EXAMINATIONS:</b>	GREEK		
<b>THE COURSE IS OFFERED TO ERASMUS STUDENTS</b>	NO		
<b>COURSE WEBSITE (URL)</b>	<a href="https://eclass.duth.gr/courses/ALEX01140/">https://eclass.duth.gr/courses/ALEX01140/</a>		

### 2. LEARNING OUTCOMES

<p><b>Learning outcomes</b></p> <p><i>Describe the learning outcomes of the course, the specific knowledge, skills and competencies that students will acquire after successfully completing the course. Refer to Appendix A.</i></p> <ul style="list-style-type: none"> <li>• Description of learning outcomes for the course according to the level of study - refer to the European Higher Education Area Qualifications Framework</li> <li>• Descriptive Indicators of Levels 6, 7 &amp; 8 of the European Qualifications Framework for Lifelong Learning and Annex B Curriculum Vitae Summary Guide</li> </ul>		
<p>After successful completion of the course, students will be able to:</p> <ul style="list-style-type: none"> <li>- Know, understand, describe and identify the basic cellular and histological structures of the human body, as well as the molecular techniques for their study.</li> <li>- Know, understand and describe with appropriate medical terminology all the systems of the human body, as well as their basic functions.</li> <li>- Acquire the ability to combine their knowledge in the diagnostic approach of pathological conditions and understand the mechanisms of disease.</li> </ul>		
<p><b>General Skills</b></p> <p><i>Which of the general competencies that the student will have acquired on the completion of the studies (see also the Diploma Supplement and below) are relevant to this course?</i></p> <table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top;"> <i>Research, analysis and synthesize of data and information, using the necessary technologies</i>  <i>Adaptation to new situations</i>  <i>Decision making</i>  <i>Autonomous work</i>  <i>Team work</i>  <i>Work in an international environment</i> </td> <td style="vertical-align: top;"> <i>Work in an interdisciplinary environment</i>  <i>Production of new research ideas</i>  <i>Project design and management</i>  <i>Respect for diversity and multiculturalism</i>  <i>Respect for the natural environment</i>  <i>Development of social, professional and moral responsibility and gender sensitivity</i>  <i>Promotion of free, creative and inductive thinking</i> </td> </tr> </table>	<i>Research, analysis and synthesize of data and information, using the necessary technologies</i> <i>Adaptation to new situations</i> <i>Decision making</i> <i>Autonomous work</i> <i>Team work</i> <i>Work in an international environment</i>	<i>Work in an interdisciplinary environment</i> <i>Production of new research ideas</i> <i>Project design and management</i> <i>Respect for diversity and multiculturalism</i> <i>Respect for the natural environment</i> <i>Development of social, professional and moral responsibility and gender sensitivity</i> <i>Promotion of free, creative and inductive thinking</i>
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### 3. COURSE CONTENT

<p>The objectives of the course are:</p> <p>The aim of Histology is to study the texture of biological material and the ways in which its individual elements are structurally and functionally related. Initially, the course introduces the structure and function of the cell, as well as the cell division. Afterwards, the basic tissue types (connective tissue, epithelial tissue, muscular tissue and neural tissue) are analyzed. In the last part, the course focused in the following systems: circulatory, immune, respiratory, central neural system, male and female reproductive system, skin, gastrointestinal, liver, pancreas and endocrine glands.</p>
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All methods of tissue processing and study are reported, as well as molecular methods used in the diagnosis and prognosis of diseases.

#### Lectures

1. Gross anatomy and special techniques in Histology. Cell (function and structure)
2. Histochemistry, Cytochemistry, Immunohistochemistry and others Molecular techniques
3. Epithelial tissue
4. Connective tissue
5. Fat & Chondrus tissue
6. Bone connective tissue
7. Muscular & Neural system
8. Gastrointestinal tract
9. Respiratory Tract
10. Skin
11. Male Reproductive system
12. Female Reproductive system
13. Breast

#### 4. TEACHING and LEARNING METHODS - EVALUATION

<b>TYPE OF TRAINING</b> <i>Face-to-face, Distance learning, etc..</i>	Face to face	
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b> <i>Use of ICT in teaching, laboratory education, and in communication with the students</i>	Use of ICT in Teaching Use of ICT in Laboratory Education Use of ICT in Communication with students	
<b>MODES OF DELIVERY</b>  <i>Describe the teaching methods in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, practicum, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc. The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i>	<b>Activity</b>	<b>Wordload/semester</b>
	Lectures	15
	Interactive learning	11
	Study and analysis of bibliography	64
	<b>Course Total</b>	<b>90</b>
<b>STUDENT PERFORMANCE EVALUATION</b>  <i>Describe of the methods of evaluation language, methods of evaluation, types of exams, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other Are evaluation criteria known to the students?</i>	<b>Student evaluation languages</b> Greek  <b>Method (Formative or Concluding)</b> Summative  <b>Student evaluation methods</b> Written exam with multiple choice test (100%)	

#### 5. SUGGESTED BIBLIOGRAPHY

1. Ιστολογία με μια ματιά M. Peckham, Εκδόσεις Παρισιάνου ΑΕ, Έτος έκδοσης 2023, Αθήνα, (ISBN: 9789605837532) Κωδ. Ευδ.
2. Βασική Ιστολογία, D. J. Lowrie Jr., Εκδόσεις: Ροτόντα, Έτος Έκδοσης: 2021, Τόπος Έκδοσης: Θεσσαλονίκη. (ISBN: 9786185288518).  
Κωδικός Ευδ: 102074780
3. Ιστολογία με Στοιχεία Κυτταρικής Βιολογίας. Kierszenbaum Abraham L., Tres Laura L., 2η έκδοση Εκδόσεις Broken Hill Publishers Ltd, Έτος έκδοσης 2023, Αθήνα, (ISBN: 9789925350490) Κωδ. Ευδ. 112691114

4. Ιστολογία, Tallitsch R, Guastaferri, Εκδόσεις: Ροτόντα, Έτος Έκδοσης: 2011, Τόπος Έκδοσης: Θεσσαλονίκη. (ISBN: 978-960-6894028-2). Κωδικός Βιβλίου στον Εύδοξο: 7950625
5. Ιστολογία, Leslie P. Gartner, 4η έκδοση, Εκδόσεις Παρισιάνου ΑΕ, Έτος έκδοσης 2019, Αθήνα, (ISBN: 978-960-583-302-2) Κωδ. Ευδ. 77114885.
6. Σημειώσεις