

Course Outline: “6111 - Pathophysiology of Metabolic and Cardiovascular Diseases and Gastrointestinal System”

1. General information

FACULTY/SCHOOL	Physical Education, Sport Science & Nutrition		
DEPARTMENT	Nutrition & Dietetics		
LEVEL OF STUDY	Undergraduate		
COURSE UNIT CODE	6111	SEMESTER	6th
COURSE TITLE	Pathophysiology of Metabolic and Cardiovascular Diseases and Gastrointestinal System		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDITS
in case credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the entire course, give the weekly teaching hours and the total credits			
Lectures		3	
<i>Add rows if necessary. The organization of teaching and the teaching methods used are described in detail under section 4</i>		3	5
COURSE TYPE <i>Background knowledge, Scientific expertise, General Knowledge, Skills Development</i>	General Knowledge		
PREREQUISITE COURSES	No		
LANGUAGE OF INSTRUCTION	GREEK		
LANGUAGE OF EXAMINATION/ASSESSMENT	GREEK		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES (in English)		
COURSE WEBSITE (URL)	https://eclass.uth.gr/courses/DND_U_143/		

2. LEARNING OUTCOMES

<p>Learning Outcomes</p> <p><i>The course learning outcomes, specific knowledge, skills and competences of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail. It is necessary to consult: Συμβουλευτείτε το</i></p> <p>APPENDIX A</p> <ul style="list-style-type: none"> <i>Description of the level of learning outcomes for each level of study, in accordance with the European Higher Education Qualifications' Framework.</i> <i>Descriptive indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and</i> <p>APPENDIX B</p> <ul style="list-style-type: none"> <i>Guidelines for writing Learning Outcomes</i> <p>This course describes disorders of the normal functions of the human body, which lead to the appearance of the clinical picture of the disease. It aims to contribute to the understanding of the mechanisms of various metabolic, cardiovascular and gastrointestinal diseases, combining basic knowledge with clinical medicine, for proper diagnosis and appropriate treatment. The course offers basic knowledge regarding the cellular mechanisms that contribute to the genesis and progression of the disease. The student at the end of the course will be able to explain and describe the normal functions of the human body and to understand the pathogenetic mechanism of the disease. He will develop important knowledge that will enable him to prevent and treat diseases.</p> <p>General Competences</p> <p><i>Taking into consideration the general competences that students/graduates must acquire (as those are described in the Diploma Supplement and are mentioned below), at which of the following does the course attendance aim?</i></p>
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Search for, analysis and synthesis of data and information by the use of appropriate technologies, Adapting to new situations Decision-making Individual/Independent work Group/Team work Working in an international environment Working in an interdisciplinary environment Introduction of innovative research

Project planning and management Respect for diversity and multiculturalism Environmental awareness Social, professional and ethical responsibility and sensitivity to gender issues Critical thinking Development of free, creative and inductive thinking (Other.....citizenship, spiritual freedom, social awareness, altruism etc.)

- Search for, analysis and synthesis of data and information
- Adapting to new situations
- Working in an interdisciplinary environment
- Acquisition of the appropriate theoretical cognitive background so that further education is possible.
- Making a decision
- Production of new research ideas

3. COURSE CONTENT

1. Basic principles of cell physiology
2. Metabolic diseases (diabetes mellitus, hypoglycemia, hyperuricemia, weight changes)
3. Chronic complications of diabetes
4. Disorders of lipid metabolism
5. Rhythm disorders
6. Pathophysiology of the coronary circulation
7. Pathophysiology of cardiovascular diseases (valvular diseases, cardiomyopathies, pericardial diseases)
8. Pathophysiology of heart failure
9. Pathophysiology of hypertension
10. Pathophysiological disorders of the stomach and esophagus - diseases
11. Pathophysiological disorders of the intestine - diseases
12. Pathophysiological disorders in diseases of the pancreas and bile ducts
13. Pathophysiological disorders in liver diseases

4. TEACHING METHODS - ASSESSMENT

MODES OF DELIVERY <i>Face-to-face, in-class lecturing, distance teaching and distance learning etc..</i>	Distance teaching	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY <i>Use of ICT in teaching, Laboratory Education, Communication with students</i>	eClass	
COURSE DESIGN <i>Description of teaching techniques, practices and methods: Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, Internship, Art Workshop, Interactive teaching, Educational visits, projects, Essay writing, Artistic creativity, etc. The study hours for each learning activity as well as the hours of self-directed study are given following the principles of the ECTS.</i>	Activity/Method	Semester workload
	Lectures	50
	Laboratory Classes	50
	Personal Study	25
	Total	125

<p>STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS</p> <p><i>Detailed description of the evaluation procedures:</i></p> <p><i>Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short- answer questions, open-ended questions, problem solving, written work, essay/report, oral exam, presentation, laboratory work, other.....etc.</i></p> <p><i>Specifically defined evaluation criteria are stated, as well as if and where they are accessible by the students.</i></p>	<p>Written final exam (100%) which includes:</p> <ul style="list-style-type: none"> - Multiple choice questions - Developmental questions
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5. SUGGESTED BIBLIOGRAPHY

<p>- <i>Suggested bibliography:</i></p> <p>1. BOOK [77107054]: Μουτσόπουλου Αρχές Παθοφυσιολογίας. Τζιούφας Αθανάσιος. BROKEN HILL PUBLISHERS LTD. 2018</p> <p>2. BOOK [41956310]: ΠΑΘΟΛΟΓΙΚΗ ΦΥΣΙΟΛΟΓΙΑ (Β' έκδοση). Συλλογικό έργο. UNIVERSITY STUDIO PRESS. 2014</p> <p>3. BOOK [32997801]: Παθοφυσιολογία Νόσων. Hart N.M., Loeffler G.A. BROKEN HILL PUBLISHERS LTD . 2013</p>
