

COURSE OUTLINE

(1) GENERAL

SCHOOL	NATURAL SCIENCES		
ACADEMIC UNIT	BIOLOGY		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	BIO_ΣTY4	SEMESTER	6 th
COURSE TITLE	ANIMAL PHYSIOLOGY II		
INDEPENDENT TEACHING ACTIVITIES <i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>		WEEKLY TEACHING HOURS	CREDITS
Lectures, Laboratory Exercises		3 (lec) + 3 (lab/ 2 nd week)	6
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Field of Science Skills Development		
PREREQUISITE COURSES:	NO		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	NO		
COURSE WEBSITE (URL)	https://eclass.upatras.gr/courses/BIO245/		

(2) LEARNING OUTCOMES

<p>Learning outcomes <i>The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> • <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i> • <i>Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i> • <i>Guidelines for writing Learning Outcomes</i>
<p>Understanding the basic principles of physiological functions of human and animals.</p> <p>At the end of this course the student will be able to address issues of the basic principles of structure/function of cardiovascular system, respiratory system, peptic system, urinary and endocrine system etc</p>
<p>General Competences <i>Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?</i></p>

<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i> <i>Adapting to new situations</i> <i>Decision-making</i> <i>Working independently</i> <i>Team work</i> <i>Working in an international environment</i> <i>Working in an interdisciplinary environment</i> <i>Production of new research ideas</i>	<i>Project planning and management</i> <i>Respect for difference and multiculturalism</i> <i>Respect for the natural environment</i> <i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i> <i>Criticism and self-criticism</i> <i>Production of free, creative and inductive thinking</i> <i>Others...</i>
<p>At the end of the course, the student will have developed the following skills/competences:</p> <ol style="list-style-type: none"> 1. Get familiar with basic laboratory equipment in order to measure physiological parameters and be able to perform laboratory-based experiments, 2. Observe microscopic specimens/slides of the normal and anaemia blood smears (thalassaemia, Erythroblastosis Fetalis etc), 3. Understand and analyse normal ECG 4. Work as part of a team, capable of planning, execute and record experimental procedures/data 	

(3) SYLLABUS

<ol style="list-style-type: none"> 1. Blood 2. Circulatory system 3. Electrical activity of the heart. 4. Central and peripheral control of cardiac output. 5. Respiratory system. Control of breathing. 6. Mobility of gastrointestinal tract. Gastrointestinal secretions. Digestion and absorption. 7. Elements of renal function. 8. General principles of endocrine physiology

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Face to face, lectures and laboratory training	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	Lectures (using power-point presentations) and support of educational procedure with use of the e-class electronic platform	
TEACHING METHODS <i>The manner and methods of teaching are described in detail.</i>	Activity	Semester workload
	Lectures (13 weeks x 3 hours per week)	39

<p>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</p> <p>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</p>	Laboratory exercises (5 weeks x 3 hours per week)	15
	Home study	96
	Course total	150
<p>STUDENT PERFORMANCE EVALUATION Description of the evaluation procedure</p> <p>Language of evaluation, methods of evaluation, summative or conclusive, 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</p> <p>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</p>	<p>1) Written exams (at the semester's end), in Course theory, accounting for the 80% of the Final Grade.</p> <p>2) Laboratory exams (at the semester's end), accounting for the 20% of the Final Grade.</p> <p>Final Course Grade: Theory Grade x 0.8 + Laboratory Grade x 0.2</p> <p>Grading scale: 1-10. Passing grade: 5</p> <p>Grading: 3 correspond to ECTS grade F. Grade 4 corresponds to ECTS grade FX.</p> <p>Passing grades correspond to ECTS grades as follows: 5=E, 6=D, 7=C, 8=B, 9=A.</p>	

(5) ATTACHED BIBLIOGRAPHY

<p>- Suggested bibliography:</p> <p>- Related academic journals:</p> <ol style="list-style-type: none"> Vander, A., Sherman, J., Luciano, D. and Tsakopoulos M. « Human Physiology ». (in greek) Vol. II, Paschalidis Med. Publ., Athens, 2001. Sherwood L. « Introduction to Human Physiology » (in greek) Acad. Publ. Basdra & so on, Alexandroupolis 2016. Berne R.M. & Levy M.N.: « Principles of Physiology ». Vol II. (in greek). Publications of University of Crete, Crete 1999
