COURSE OUTLINE "ENGLISH FOR BIOSCIENCES"

1. GENERAL

SCHOOL	HEALTH SCIENCES		
DEPARTMENT	MOLECULAR BIOLOGY AND GENETICS		
STUDY LEVEL	ISCED LEVEL 6		
COURSE CODE	**MBG522**	**SEMESTER**	5th
COURSE TITLE	ENGLISH FOR BIOSCIENCES		
TEACHING ACTIVITIES *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*		**HOURS/WEEK**	**ECTS CREDITS**
		2	3
COURSE TYPE *General, Background, Scientific field course, Expertise Course, Skills Development etc*	BACKGROUND		
PREREQUISITE COURSES:	B2 ENGLISH LEVEL		
LANGUAGE OF TEACHING AND EXAMINATIONS:	ENGLISH		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	NO		
COURSE WEBSITE (URL)	https://eclass.duth.gr/courses/418339/		

2. LEARNING OUTCOMES

Learning outcomes

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.

• Description of learning outcomes for the course according to the level of study - refer to the European Higher Education Area Qualifications Framework

• Descriptive Indicators of Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Annex B Curriculum Vitae Summary Guide

After completing the course, students will have:

- promoted their ability to comprehend scientific texts
- been familiarised with a great number of terms related to medicine, molecular biology, and genetics and their etymology
- learned how to construct compound scientific terms
- improved academic skills such as notetaking, effective delivery of oral presentations, writing a research paper
- developed oral communication skills and will be able to contribute effectively to discussions
- enhanced critical thinking

General Competencies

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?

Research, analysis and synthesize of data and information, using the necessary technologies
Adaptation to new situations
Decision making
Autonomous work
Team work
Work in an international environment
Work in an interdisciplinary environment
Production of new research ideas
Project design and management
Respect for diversity and multiculturalism
Respect for the natural environment
Development of social, professional and moral responsibility and gender sensitivity
Promotion of free, creative and inductive thinking

Autonomous work
Teamwork
Promotion of free, creative and inductive thinking
Research, analysis and synthesis of data and information, using the necessary technologies
Adaptation to new situations
Decision making
Development of social, professional and moral responsibility and gender sensitivity

3. COURSE CONTENT

- The Building Blocks of Medical and Genetic Terminology
  - Word Parts: Roots/Combining Forms, Prefixes, Suffixes
  - Spelling - Pronunciation
  - Plural Formation of Terms Derived from Greek and Latin
- Body Organization (Chemicals – Cells – Tissues – Organs – Organ Systems)
- Major Body Systems
- Theories of Evolution - Early Humans - Theories on the Origin of Life on Earth
- Genetics
  - Principles of Heredity
  - Genetic Material
  - The Human Genome Project
- Alterations in the Genetic Material
  - Mutations
  - Point Mutations
  - Chromosomal Alterations
- DNA Repair Mechanisms
- Genetic Testing – Genetic Counselling
- Gene Editing - CRISPR
- Types of Diseases - Genetic Disorders
- Proto-oncogenes to Oncogenes to Cancer
- Viruses – How are Pathogens Spread and Controlled – How Pandemics Spread
- Pharmacy, Pharmacology and Drugs - Types of Drugs
- Basic Hospital Vocabulary – Laboratory Equipment
- Bioethics
  - The Principles of Bioethics
  - Major Bioethical Issues
- Academic Skills
  - Notetaking
  - Making a Presentation
  - Writing a Research Paper

4. TEACHING and LEARNING METHODS - EVALUATION

<table>
<tr><td>TYPE OF TRAINING
Face-to-face, Distance learning, etc..</td><td>Face to face</td></tr>
<tr><td>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
Use of ICT in teaching, laboratory education, and in communication with the students</td><td>Use of ICT in teaching
Use of ICT in communication with the students</td></tr>
<tr><td>MODES OF DELIVERY
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</td><td>
<table>
<tr><th>Activity</th><th>Workload/semester</th></tr>
<tr><td>Study and analysis of science-related</td><td>26</td></tr>
<tr><td>Speaking, listening & writing activities</td><td>26</td></tr>
<tr><td>Project</td><td>18</td></tr>
<tr><td>Non-directed study</td><td>20</td></tr>
<tr><td>Course Total</td><td>90</td></tr>
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</td></tr>
<tr><td>STUDENT PERFORMANCE EVALUATION
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</td><td>A written exam is administered at the end of the semester.
<table>
<tr><th>Types of Exercises</th><th>Percentage</th></tr>
<tr><td>Multiple choice questionnaire</td><td>20%</td></tr>
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</td></tr>
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Are evaluation criteria known to the students?		Short-answer questions	20%	
		Writing exercises	60%	

5. SUGGESTED READING

- Θεώνη Καβουρά, Ελένη Ναλμπάντη, Focus on the Language of Medicine in Health Sciences, Ιωάννης Κωνσταντάρας, 2022
- Γεώργιος Μιχαηλίδης, Νέλλη Βέζου-Μαγκούτη, Αγγλοελληνικό Ελληνοαγγλικό Λεξικό των Ιατρικών Όρων, Ιωάννης Κωνσταντάρας, 2005