COURSE OUTLINE

(1) GENERAL

SCHOOL	SCHOOL OF SCIENCES		
DEPARTMENT	DEPARTMENT OF CHEMISTRY		
LEVEL OF STUDIES	ISCED level 6 – Bachelor's or equivalent level		
COURSE CODE	YN305	**SEMESTER**	3rd Semester
COURSE TITLE	English II		

TEACHING ACTIVITIES *If the ECTS Credits are distributed in distinct parts of the course e.g. lectures, labs etc. If the ECTS Credits are awarded to the whole course, then please indicate the teaching hours per week and the corresponding ECTS Credits.*	**TEACHING HOURS PER WEEK**	**ECTS CREDITS**
	3	2
Please, add lines if necessary. Teaching methods and organization of the course are described in section 4.		

COURSE TYPE *Background, General Knowledge, Scientific Area, Skill Development*	Skill Development
PREREQUISITES:	NO
TEACHING & EXAMINATION LANGUAGE:	ENGLISH
COURSE OFFERED TO ERASMUS STUDENTS:	NO
COURSE URL:	https://eclass2.emt.duth.gr/courses/CHEM-N3105/

(2) LEARNING OUTCOMES

Learning Outcomes
Please describe the learning outcomes of the course: Knowledge, skills and abilities acquired after the successful completion of the course.

The course aims to help students use English correctly and accurately for academic and professional purposes. Upon successful completion of the course, students are expected to have improved their language skills in English and acquired basic techniques to be able to:

- Study and use English scientific literature for the preparation of assignments, seminars, etc.
- Understand academic texts and the corresponding terminology
- Write summaries of English texts in Greek
- Write a scientific text in English
- Attend lectures in English
- Give presentations in English

General Skills
Name the desirable general skills upon successful completion of the module

Search, analysis and synthesis of data and information,
ICT Use
Adaptation to new situations
Decision making
Autonomous work
Teamwork
Working in an international environment
Working in an interdisciplinary environment
Production of new research ideas
Project design and management
Equity and Inclusion
Respect for the natural environment
Sustainability
Demonstration of social, professional and moral responsibility and sensitivity to gender issues
Critical thinking
Promoting free, creative and inductive reasoning

Search, analysis and synthesis of data and information, Autonomous work, Teamwork, Working in an international environment

(3) COURSE CONTENT

Week 1: Separation techniques, distillation, evaporation.
Week 2: Crystallization, thin layer or paper chromatography, separating funnel, filtration.
Week 3: Acids and Bases.
Week 4: Electricity, electrochemistry.
Week 5: Electroplating, electrolysis, redox reactions, galvanic cells.
Week 6: Water treatment methods.
Week 7: Distillation, pre and post chlorination, reverse osmosis.
Week 8: Polymers, synthetic, natural, thermosetting, thermoplastic, linear, branched, cross-linked, fibers.
Week 9: Plastics.
Week 10: Elastomers.
Week 11: Terminology in Organic chemistry.
Week 12: Terminology in Inorganic chemistry.
Week 13: Terminology in Analytical chemistry.

(4) LEARNING & TEACHING METHODS - EVALUATION

TEACHING METHOD *Face to face, Distance learning, etc.*	Face to face
USE OF INFORMATION & COMMUNICATIONS TECHNOLOGY (ICT) *Use of ICT in Teaching, in Laboratory Education, in Communication with students*	Use of ICT in Teaching Use of ICT in Communication with students
TEACHING ORGANIZATION *The ways and methods of teaching are described in detail.* *Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc.* *The supervised and unsupervised workload per activity is indicated here, so that total workload per semester complies to ECTS standards.*	**Activity** / **Workload/semester** Lectures: 39 Homework: 13 Study: 13 Exams: 3 Total: 68
STUDENT EVALUATION *Description of the evaluation process* *Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay / Report, Oral Exam, Presentation in audience, Laboratory Report, Clinical examination of a patient, Artistic interpretation, Other/Others* *Please indicate all relevant information about the course assessment and how students are informed*	Students are assessed by means of a final written exam in English.

(5) SUGGESTED BIBLIOGRAPHY

- 1. English for Chemistry EAP, Κατσαμποξάκη-Hodgetts Κάλλια, Εκδόσεις Δίσιγμα, 2017
- 2. The Chemistry Between Us, Βασιλική Ριζομυλιώτη, Ζωή Μαλιβίτση, Εκδόσεις Αθανάσιου Αλτιντζή, 2021