

COURSE OUTLINE

(1) GENERAL

SCHOOL	ENGINEERING SCHOOL		
ACADEMIC UNIT	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	EEE. 6.8	SEMESTER	6
COURSE TITLE	ENGLISH FOR SPECIFIC PURPOSES 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	3	3	
<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>	Special Background Course		
PREREQUISITE COURSES:			
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	English		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)			

(2) LEARNING OUTCOMES

Learning outcomes

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.

Consult Appendix A

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

Upon completion of the course students will be able to:

- Understand scientific texts relative to the field of Electrical and Electronics Engineering, either globally (global understanding) or thoroughly (scanning-thorough comprehension)
- Acquire the terminology and syntax of scientific texts through various methods and techniques
- Analyze the structure and organization elements of scientific speech on multiple levels (sentence, paragraph, text)
- Produce oral speech and construct written speech of multiple forms (instructions, description of components, functions and processes, essay writing, reports, professional mail etc.)

Specifically, students will be able to:

- Acquire and use technical vocabulary, terminology and structure connected to the field of Electrical and Electronics Engineering
- Extract specific information from texts about components, devices, structures, and processes
- Identify devices, components, structures, processes and explain their function
- Understand the structure and function of devices and components
- Recognize differences between types of devices and components
- Understand the relation between structures, components and processes
- Understand the features and technical specifications of different components and devices
- Describe devices, components, structures, and processes
- Discriminate between different types of processes

General Competences

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?

Search for, analysis and synthesis of data and information, with the use of the necessary technology

Adapting to new situations

Decision-making

Working independently

Team work

Working in an international environment

Working in an interdisciplinary environment

Production of new research ideas

Project planning and management

Respect for difference and multiculturalism

Respect for the natural environment

Showing social, professional and ethical responsibility and sensitivity to gender issues

Criticism and self-criticism

Production of free, creative and inductive thinking

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Others.....

- Search, analysis and synthesis of data and information, with the use of new technologies
- Individual project
- Group project /Team Work
- Working in an international environment: Communicative competence in the English Language.
- Working in a multidisciplinary field
- Respect for diversity and multiculturalism
- Critical thinking, self-criticism, self-esteem
- Generating free creative and inductive thinking

(3) SYLLABUS

1. Dc Machines/Ac Machines/Transformers
2. Power generation
3. Renewable Energy Sources
4. Power Control
5. Power Transmission and Distribution
6. Control Systems
7. Illumination
8. Telecommunications
9. Power Electronics
10. Optical Communications
11. Object-oriented Programming
12. Mechatronics
13. Robotics

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Lectures in class, face-to-face	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	Teaching using ICT, Laboratory Education using ICT, Communication and Electronic Submission of projects	
TEACHING METHODS <i>The manner and methods of teaching are described in detail. 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. 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>	Activity	Semester workload
	Lectures	26
	Lecture material study	52
	Exam preparation	12
	Course total	90

<p>STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>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</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>Final examination: 100% Individual project/paper : up to 20%, added to total score</p>
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(5) ATTACHED BIBLIOGRAPHY

<ol style="list-style-type: none"> 1. English for Electrical Engineering, Tsatsaros P., Diros editions 2. English for Electrical Engineers, J. MacAllister – G. Madama 3. Authentic reading texts
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