

220131 - Written Academic Skills for Engineering

Coordinating unit:	205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit:	758 - EPC - Department of Project and Construction Engineering
Academic year:	2019
Degree:	BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN AUDIOVISUAL SYSTEMS ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN TEXTILE TECHNOLOGY AND DESIGN ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2010). (Teaching unit Optional) BACHELOR'S DEGREE IN INDUSTRIAL TECHNOLOGY ENGINEERING (Syllabus 2010). (Teaching unit Optional) BACHELOR'S DEGREE IN AEROSPACE TECHNOLOGY ENGINEERING (Syllabus 2010). (Teaching unit Optional) BACHELOR'S DEGREE IN AEROSPACE VEHICLE ENGINEERING (Syllabus 2010). (Teaching unit Optional)
ECTS credits:	3
Teaching languages:	English

Teaching staff

Coordinator: M Teresa Morera Escudé

Opening hours

Timetable: Upon request at teresa.morera@upc.edu

Prior skills

In order to carry out academic and professional activities in English, students are recommended to have acquired B1 level of the Common European Framework of Reference for Languages (CEF) or higher.

Degree competences to which the subject contributes

Transversal:

- 04 COE N3. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.
- 03 TLG. THIRD LANGUAGE. Learning a third language, preferably English, to a degree of oral and written fluency that fits in with the future needs of the graduates of each course.

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Teaching methodology

The course is divided into parts:

Classes

Self-study for doing exercises and activities.

In the classes, lecturers will introduce the theoretical basis of the concepts, methods and results and illustrate them with examples appropriate to facilitate their understanding.

Later, lecturers will guide students in applying theoretical concepts to solve problems, always using critical reasoning. We propose that students solve exercises in and outside the classroom, to promote contact and use the basic tools needed to solve problems.

Students, independently, need to work on the materials provided by teachers and the outcomes of the sessions of exercises/problems, in order to fix and assimilate the concepts.

The lecturers provide the syllabus and monitoring of activities (ATENEA).

Learning objectives of the subject

Study load

Total learning time: 75h	Hours large group:	30h	40.00%
	Self study:	45h	60.00%

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Content

<p>Written academic skills for engineering</p>	<p>Learning time: 75h Theory classes: 30h Self study : 45h</p>
<p>Description:</p> <p>Module 1: The writing process (I) Pre-writing stage Planning a text: overview of the communicative situation, the plan sheet Analyzing audience & purpose Considering style and tone</p> <p>Module 2: The writing process (II) Writing stage Drafting: common rhetorical functions in technical writing (description, definition, classification, instructions). Paragraphs: Structuring and developing paragraphs, intra paragraph coherence The essay: Structuring the essay (parts of an essay, thesis statements). Developing essay patterns Providing inter paragraph coherence Incorporating visual aids</p> <p>Module 3: The writing process (III) Post- writing stage Revising content and organization Checking for grammatical accuracy Editing for style Proofreading</p> <p>Module 4: Academic and professional documents in English Application letters and CVs Technical Reports</p>	

Qualification system

Course assessment is based on course assignments, class participation and a final test.

Course assignments: 15%

Written project: 40%

Final test: 35%

Class participation: Students are expected to complete activities and tasks and bring their answers to class for discussion.

They are also expected to work in collaboration with others: 10%

All the assignments and tasks are compulsory

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Bibliography

Basic:

Bombardó, C.; Aguilar, M.; Barahona, C. Technical writing: a guide for effective communication [on line]. Barcelona: Edicions UPC, 2007 [Consultation: 07/07/2017]. Available on: <<http://hdl.handle.net/2099.3/36667>>. ISBN 9788483019276.

Complementary:

Lannon, John M. Technical communication. 11th ed. New York: Longman, 2008. ISBN 9780205559572.

Huckin, Thomas N.; Olsen, Leslie A. Technical writing and professional communication for nonnative speakers of english. 2nd ed. New York: McGraw-Hill, 1991. ISBN 0071126422.

Bailey, Stephen. Academic writing: a handbook for international students. 2nd ed. London: Routledge, 2006. ISBN 9780415384193.