Course guide
820073 - CTE - Communication in Technical English

Last modified: 04/06/2026

Unit in charge: Barcelona East School of Engineering
Teaching unit: 756 - THATC - Department of History and Theory of Architecture and Communication Techniques.

Degree: BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Optional subject).
BACHELOR'S DEGREE IN MATERIALS ENGINEERING (Syllabus 2010). (Optional subject).

Academic year: 2026 **ECTS Credits:** 9.0 **Languages:** English

LECTURER

Coordinating lecturer: SANTIAGO MANUEL REHECHO MURIAS

Others: Primer quadrimestre:
SANTIAGO MANUEL REHECHO MURIAS - Grup: T1, Grup: T2

Segon quadrimestre:
ARIADNA MORAL AMARILLA - Grup: M1
SANTIAGO MANUEL REHECHO MURIAS - Grup: T1

PRIOR SKILLS

A consolidated intermediate level of English is required to carry out activities effectively. In fact, classes will resume the study of the English language from a technical perspective.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Transversal:
1. 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.
2. 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.

TEACHING METHODOLOGY

- Listening Comprehension
- Reading Comprehension
- Group work
- Pair work
- Expository lectures
- Group presentations

LEARNING OBJECTIVES OF THE SUBJECT

Listening:
- to understand native speakers, professionals, and students talking about their work and study
- To understand experts talking informally about technical aspects
Speaking:
- to communicate about technical topics
Reading:
- to understand a wide variety of text including diagrams, tables, graphs, course brochures, and job advertisements
- to compare different sources of information, written and spoken
writing:
- to write simple descriptions and explanations on technical subjects related to student's field of study
- to write study- and work-related documents

STUDY LOAD

Type	Hours	Percentage
Self study	135,0	60.00
Hours large group	90,0	40.00

Total learning time: 225 h

CONTENTS

1.- Metals

Full-or-part-time: 22h 30m
Theory classes: 9h
Self study : 13h 30m

2.- Measurement

Full-or-part-time: 22h 30m
Theory classes: 13h 30m
Self study : 9h

3.- Design and function

Full-or-part-time: 22h 30m
Theory classes: 9h
Self study : 13h 30m

4.- Energy, heat and work

Full-or-part-time: 22h 30m
Theory classes: 9h
Self study : 13h 30m

5.- Control devices

Full-or-part-time: 22h 30m
Theory classes: 9h
Self study : 13h 30m

6.- Pumps

Full-or-part-time: 22h 30m
Theory classes: 9h
Self study : 13h 30m

7.- Air-contioning systems

Full-or-part-time: 22h 30m
Theory classes: 9h
Self study : 13h 30m

8.- Diesel engines

Full-or-part-time: 22h 30m
Theory classes: 9h
Self study : 13h 30m

9.- Data communications

Full-or-part-time: 22h 30m
Theory classes: 9h
Self study : 13h 30m

10.- Electric power systems

Full-or-part-time: 22h 30m
Theory classes: 9h
Self study : 13h 30m

GRADING SYSTEM

Any academic fraud, plagiarism or use or possession of unauthorised means in an assessment activity leads to a mark of zero (0) for the affected test or assignment. Furthermore, in accordance with the University's regulations, if disciplinary proceedings are initiated the subject is recorded as "Pending Assessment" until a decision is reached. These incidents are managed in accordance with the **Action Framework for Academic Integrity in Assessment at the UPC**.

- Exam units 1 - 5: 40%
- Exam units 6 - 10: 40%
- Presentation: 15%
- Tasks: 5%

There is NO re-assessment.

EXAMINATION RULES.

During the exams, the use of electronic devices, such as mobile phones, tablets or smart watches, is not allowed.
The presentation is not a reading exercise. The use of paper notes or electronic devices will not be allowed. The only accepted support is the screen with presentation software (PowerPoint, Prezi, etc...)

BIBLIOGRAPHY

Basic:
- Johnson, David. General engineering. New York [etc.]: Prentice Hall, 1995. ISBN 0132803062.
- Mann, Malcom; Taylore-Knowles, Steve. Destination B2 : grammar & vocabulary. 2nd ed. Oxford: MacMillan, 2006. ISBN 0230035396.

Complementary:
- Collins diccionario inglés = Collins Spanish dictionary. 9th ed. Barcelona: Random House, 2009. ISBN 9788425343179.
- Beigbeder Atienza, Federico. Diccionario politécnico de las lenguas española e inglesa = Polytechnic dictionary of Spanish and English languages. 3a ed. Madrid: Díaz de Santos, 2008. ISBN 9788479788711.
- Ibbotson, Mark. Cambridge english for engineering. Cambridge: Cambridge University, 2008. ISBN 9780521715188.
- Chrimes, John. English for biomedical science in higher education studies. Course book. Reading, UK: Garnet Publishing Ltd., 2015. ISBN 9781907575341.
- Campbell, Simon. English for the energy industry. Oxford University Press, 2009. ISBN 9780194579216.