820091 - TEEN - Technical English for Engineers

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering
Teaching unit: 745 - EAB - Department of Agri-Food Engineering and Biotechnology
Academic year: 2015
Degree: BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
ECTS credits: 6  
Teaching languages: English

Teaching staff

Coordinator: Santiago Rehecho Murias
Others: Santiago Rehecho Murias

Opening hours

Timetable:
- Mondays: 17.30 - 18.30
- Fridays: 10.00 - 11.00
- Room BA18 (ground floor)

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 classes

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 texts 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 letters.

**Study load**

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group: 60h</th>
<th>40.00%</th>
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<tbody>
<tr>
<td></td>
<td>Self study: 90h</td>
<td>60.00%</td>
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## Content

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Learning time: 18h 45m</th>
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<tbody>
<tr>
<td><strong>1.- Metals</strong></td>
<td><strong>Theory classes:</strong> 7h 30m</td>
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<td><strong>Self study:</strong> 11h 15m</td>
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<tr>
<td><strong>(ENG) 2.- Mediciones</strong></td>
<td><strong>Theory classes:</strong> 7h 30m</td>
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<td><strong>Self study:</strong> 11h 15m</td>
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<td><strong>(ENG) 2.- Mesuraments</strong></td>
<td><strong>Theory classes:</strong> 7h 30m</td>
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<td><strong>Self study:</strong> 11h 15m</td>
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<tr>
<td><strong>2.- Measurement</strong></td>
<td><strong>Theory classes:</strong> 7h 30m</td>
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<td><strong>Self study:</strong> 11h 15m</td>
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<td><strong>(ENG) 3.- Diseño y función</strong></td>
<td><strong>Theory classes:</strong> 7h 30m</td>
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<td><strong>Self study:</strong> 11h 15m</td>
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<td><strong>(ENG) 3.- Dissent i funció</strong></td>
<td><strong>Theory classes:</strong> 7h 30m</td>
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<td><strong>Self study:</strong> 11h 15m</td>
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<td><strong>3.- Design and function</strong></td>
<td><strong>Theory classes:</strong> 7h 30m</td>
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<td><strong>Self study:</strong> 11h 15m</td>
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<tr>
<td>(ENG) 4.-</td>
<td>Energía, calor i treball</td>
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<tr>
<td>(ENG) 4.-</td>
<td>Energía, calor y trabajo</td>
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<td>4.-</td>
<td>Energy, heat and work</td>
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<td>(ENG) 5.-</td>
<td>Dispositivos de control</td>
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<tr>
<td>(ENG) 5.-</td>
<td>Dispositius de control</td>
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<tr>
<td>5.-</td>
<td>Control devices</td>
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<tr>
<td>(ENG) 6.-</td>
<td>Bombas</td>
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Learning time: 18h 45m
Theory classes: 7h 30m
Self study: 11h 15m
### (ENG) 6.- Bombes

**Learning time:** 18h 45m  
Theory classes: 7h 30m  
Self study: 11h 15m

### 6.- Pumps

**Learning time:** 18h 45m  
Theory classes: 7h 30m  
Self study: 11h 15m

### (ENG) 7.- Sistemas de aire acondicionado

**Learning time:** 18h 45m  
Theory classes: 7h 30m  
Self study: 11h 15m

### (ENG) 7.- Sistemes d'aire condicionat

**Learning time:** 18h 45m  
Theory classes: 7h 30m  
Self study: 11h 15m

### 7.- Air-conditioning systems

**Learning time:** 18h 45m  
Theory classes: 7h 30m  
Self study: 11h 15m

### (ENG) 8.- Motores diesel

**Learning time:** 18h 45m  
Theory classes: 7h 30m  
Self study: 11h 15m

### (ENG) 8.- Motors diesel

**Learning time:** 18h 45m  
Theory classes: 7h 30m  
Self study: 11h 15m
8. - Diesel engines

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<tr>
<td>Self study: 11h 15m</td>
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Qualification system

- Tasks: 30%
- Test units 1 - 4: 30%
- Test units 5 - 8: 30%
- Presentation: 10%

Bibliography

Basic:


Complementary:
