



IDENTIFYING DATA

Technical english 1

| | | | | |
|---------------------|--|----------|------|------------|
| Subject | Technical english 1 | | | |
| Code | V12G320V01903 | | | |
| Study programme | Degree in Electrical Engineering | | | |
| Descriptors | ECTS Credits | Choose | Year | Quadmester |
| | 6 | Optional | 4th | 2nd |
| Teaching language | English | | | |
| Department | | | | |
| Coordinator | Pérez Paz, María Flor | | | |
| Lecturers | Pérez Paz, María Flor | | | |
| E-mail | mflor@uvigo.es | | | |
| Web | http://fatic.uvigo.es | | | |
| General description | <p>This course aims at providing students with a systematic adequacy to develop the appropriate skills for communicating in Technical English at level A2 according to the Common European Framework of Reference for Languages (CEFR).</p> <p>As far as possible, students will be monitored so as to accommodate to each individual needs.</p> | | | |

Competencies

| | |
|------|---|
| Code | |
| B10 | CG10 Ability to work in a multidisciplinary and multilingual environment. |
| D1 | CT1 Analysis and synthesis. |
| D4 | CT4 Oral and written proficiency in a foreign language. |
| D7 | CT7 Ability to organize and plan. |
| D10 | CT10 Self learning and work. |
| D17 | CT17 Working as a team. |
| D18 | CT18 Working in an international context. |

Learning outcomes

| Expected results from this subject | Training and Learning Results | |
|--|-------------------------------|-------------------------------------|
| To improve students' sense of linguistic awareness of English as a second language, the grammatical and lexical mechanisms and types of expressions. | B10 | D1 D4 D7 D10 D17 D18 |
| Improving students' listening and reading skills, as well as their speaking and writing skills. | B10 | D1 D4 D7 D10 D17 D18 |
| To upgrade students' grammatical and lexical notions of the English language, and the comprehension of basic Technical English structures. | B10 | D1 D4 D7 D10 D17 D18 |

| | | |
|---|-----|-------------------------------------|
| To encourage students to use the English language within the engineering context, and the benefits and usefulness of the English language when applying their grammatical, lexical, and cultural knowledge. | B10 | D1 D4 D7 D10 D17 D18 |
| Promoting students' critical autonomy for the comprehension and understanding of texts, dialogues and oral presentations. | B10 | D1 D4 D7 D10 D17 D18 |

Contents

| Topic | |
|--|--|
| 1. English grammar | UNIT 1 |
| 2. Vocabulary/Use of English | Reading: Batteries and Flowbatteries. |
| 3. Technical-scientific language | Reading: Parts of a car. |
| 4. Speaking | Speaking: Describing components and materials. |
| 5. Listening | Speaking: Dates, mathematical expressions, web sites and email addresses, chemical formula. |
| 6. Reading comprehension | Listening: Where's that Darn Battery. |
| 7. Writing | Listening: Adsense Making Money Online. |
| 8. Direct and inverse translation of specific parts of the discourse | Grammar: Present Simple. |
| 1. English grammar | UNIT 2 |
| 2. Vocabulary/Use of English | Reading: CO2 and the Greenhouse Effect. |
| 3. Technical-scientific language | Reading: Maintaining your Car. |
| 4. Speaking | Speaking: Describing easy shapes and forms, and dimensions. |
| 5. Listening | Listening: Light Pollution. |
| 6. Reading comprehension | Listening: MIT Seeks Moral to the Story of Self-driving Cars. |
| 7. Writing | Writing: Easy paragraph writing. |
| 8. Direct and inverse translation of specific parts of the discourse | Grammar: Passive voice. |
| 1. English grammar | UNIT 3 |
| 2. Vocabulary/Use of English | Reading: Job Qualities for an Engineer. |
| 3. Technical-scientific language | Speaking: Expressing one own's qualities, and personal characteristics and abilities. |
| 4. Speaking | Listening: Mobile phones. |
| 5. Listening | Grammar: Relative Clauses. |
| 6. Reading comprehension | Writing: Dividing a text into types of paragraphs. |
| 7. Writing | |
| 8. Direct and inverse translation of specific parts of the discourse | |
| 1. English grammar | UNIT 4 |
| 2. Vocabulary/Use of English | Reading: Repairing a Broken Wall Socket. |
| 3. Technical-scientific language | Speaking: Advantages and disadvantages of the different generation power systems. |
| 4. Speaking | Listening: How do Nuclear Power Plants work? |
| 5. Listening | Writing: A report. |
| 6. Reading comprehension | Grammar: Adverbs of sequence; conditional sentences; connectors: contrast, reason, purpose, and result. |
| 7. Writing | |
| 8. Direct and inverse translation of specific parts of the discourse | |
| 1. English grammar | UNIT 5 |
| 2. Vocabulary/Use of English | Reading: Windfarms. |
| 3. Technical-scientific language | Speaking: Comparison and contrast. |
| 4. Speaking | Listening: Manipulating Glass Properties. |
| 5. Listening | Listening: IT-related Problems. |
| 6. Reading comprehension | Writing: Letter of Motivation. |
| 7. Writing | Grammar: Verb tenses expressing future; time adverbials; using "enable", "allow", "permit", "make", and "cause". |
| 8. Direct and inverse translation of specific parts of the discourse | |

| | |
|--|---|
| 1. English grammar | UNIT 6 |
| 2. Vocabulary/Use of English | Reading: Difference Engines. |
| 3. Technical-scientific language | Speaking: Expressing hypothetical future. |
| 4. Speaking | Listening: Industrial Processing of Canned Corn. |
| 5. Listening | Grammar: Order of adjectives. |
| 6. Reading comprehension | |
| 7. Writing | |
| 8. Direct and inverse translation of specific parts of the discourse | |
| 1. English grammar | UNIT 7 |
| 2. Vocabulary/Use of English | Reading: Properties of Materials. |
| 3. Technical-scientific language | Reading: Land and Off-shore Windfarms. |
| 4. Speaking | Speaking: Expressing cause and effect. |
| 5. Listening | Listening: Innovations is Great (1). |
| 6. Reading comprehension | Listening: e-trading and e-selling. |
| 7. Writing | Writing: Paragraph divisions for descriptions. |
| 8. Direct and inverse translation of specific parts of the discourse | Grammar: Expressing cause and effect. |
| 1. English grammar | UNIT 8 |
| 2. Vocabulary/Use of English | Reading: Superconductivity in Orbit. |
| 3. Technical-scientific language | Speaking: Expressing likelihood. |
| 4. Speaking | Listening: Innovation is Great (2). |
| 5. Listening | Listening: Geothermal Energy. |
| 6. Reading comprehension | Writing: Description of a process. |
| 7. Writing | Grammar: Likelihood. |
| 8. Direct and inverse translation of specific parts of the discourse | |
| 1. English grammar | UNIT 9 |
| 2. Vocabulary/Use of English | Reading: Water is Everything. |
| 3. Technical-scientific language | Reading: Man-made Building Materials. |
| 4. Speaking | Speaking: Materials used in industry: purpose and cause. |
| 5. Listening | Listening: Fuel Cells. |
| 6. Reading comprehension | Grammar: Adjectives: present participle, past participle. |
| 7. Writing | |
| 8. Direct and inverse translation of specific parts of the discourse | |

Planning

| | Class hours | Hours outside the classroom | Total hours |
|----------------------------------|-------------|-----------------------------|-------------|
| Introductory activities | 1 | 0 | 1 |
| Lecturing | 8 | 15 | 23 |
| Autonomous problem solving | 8 | 10 | 18 |
| Autonomous practices through ICT | 5 | 8 | 13 |
| Mentored work | 4 | 16 | 20 |
| Problem and/or exercise solving | 6 | 10 | 16 |
| Objective questions exam | 6 | 10 | 16 |
| Essay | 4 | 15 | 19 |
| Oral exam | 8 | 16 | 24 |

*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies

| | Description |
|----------------------------------|---|
| Introductory activities | Activities directed at presenting the subject, taking contact with the students and gathering information in relation to their previous knowledges of the subject. |
| Lecturing | Explanation of the linguistic contents and its application (Use of English) in the learning process and the acquisition of the contained theoretical contents of the subject. |
| Autonomous problem solving | Activities focused on dealing with exercises related to the subject. Students develop the skills and the fulfillment of exercises related with the linguistic skills (Use of English) in Technical English and the communicative skills; especially the oral expression (Speaking). |
| Autonomous practices through ICT | The practice activities in connection to the four communicative skills: oral understanding (Listening), oral expression (Speaking), reading comprehension (Reading), and written expression (Writing), as well as the linguistic skill (Use of English) in Technical English. These activities are done individually or in group. |
| Mentored work | The analysis and resolution of practical exercises in relation to grammar and vocabulary combined with the communicative skills. Students autonomously perform tasks within and outside the classroom as homework; especially the communicative task of written expression (Writing). |

| Personalized assistance | |
|----------------------------|--|
| Methodologies | Description |
| Introductory activities | General guidance to students on the subject concerning goals and how to achieve them. Exploring motivations and interests of the students. Indications on assignments and exercises to be done during the course, dates of assignment deliveries and the examination dates and how to achieve goals on the subject. Indicating that no tutorial will be done on the telephone or internet (electronic post, Skype, etc.). In case of any doubt, students will have to contact directly with the professor in the classroom or during tutorial hours. |
| Mentored work | Activities carried out in the classroom and during tutorials in order to supervise the learning process of the entrusted tasks and in relation to the communicative skill of written expression (Writing) and the linguistic skill (Use of English) in the English language. |
| Autonomous problem solving | This activity is directed to boost the realization of the diverse exercises related with the communicative skills and the linguistic skill in the application of the theoretical concepts of the language in practice. Detecting the difficulties in the learning process and lessening the different levels of the English language of each student with the rest of the participants in the course. |
| Lecturing | The personalized attention in lecturing aims at the correct comprehension and the encouragement given to students in the classroom and during tutorials during the learning process of the theoretical concepts of the subject; as well as making indications on the practice of exercises to be carried out and giving advice about the performance so as to successfully achieve a pass in this subject. |
| Tests | Description |
| Oral exam | The aim of the personalized attention of the oral examination centers in the preparation, encouragement and the supervision of the oral expression (Speaking) in the classroom during the course and previous to the oral examination. The purpose of this activity is to encourage students to express not only with relevance and quality in relation to engineering and its specific vocabulary but also with linguistic correctness. |

| Assessment | | | | |
|---------------------------------|---|---------------|-------------------------------|-------------------------------------|
| | Description | Qualification | Training and Learning Results | |
| Problem and/or exercise solving | Evaluation of the theoretical concept of the Technical English language and its application. Performance of practical exercises in relation to the linguistic skill (Use of English). | 20 | B10 | D4 D10 D18 |
| Objective questions exam | Evaluations of communicative skill of oral understanding (Listening) with contents related to engineering (16%). | 32 | B10 | D1 D10 D18 |
| | Evaluations of the communicative skill of reading comprehension (Reading) with contents related to engineering (16%). | | | |
| Essay | Evaluations of the communicative skill of the written expression (Writing). | 16 | B10 | D1 D4 D7 D10 D18 |
| Oral exam | Evaluations of the communicative skill of oral expression (Speaking) in relation to the linguistic skill and vocabulary in the field of engineering. | 32 | B10 | D1 D4 D7 D10 D17 D18 |

Other comments on the Evaluation

1. Particular considerations

There are two assessment systems. Choosing a system excludes the other.

1.1. Continuous assessment

To qualify under the system of continuous evaluation, students are required to attend 80% of the total lecture hours with academic progress and involvement. Therefore students not attending the total hours of the percentage established will lose this option. Students making use of the continuous evaluation counts 100% in the assessment of their final grade with the course assignments and testings. The failure to complete the assignments requested along the course will be counted as a zero (0.0). The assignments requested must be delivered or submitted by the deadlines and dates marked beforehand.

1.2. Final assessment

Students making use of the only evaluation or final examination sit for examination with a final overall assessment, taking place on the official date established by the School of Industrial Engineering. To this end, students should consult the School web site, where the examination date and time are specified in accordance to students' subject attendance either Campus or City Centre (Torrecedeira).

2. Final subject assessment result

2.1. Continuous assessment

The final mark for this subject is computed taking into consideration all the skills practiced during the course. Therefore each of them counts as follows:

Listening: 16%.

Speaking: 32%.

Reading: 16%.

Writing: 16%.

On the other hand, Use of English examination sums up 20%.

So the final mark will be established adding the communicative skills and Use of English tests to sum up 100%, being 5 (five) the mark necessary to obtain a pass in all skills and Use of English tests.

Students, who in the publication of the first assessment record, have scored a non-pass in one or several skills, must retake the part or parts for the corresponding failed skills in the July exam of the current course to obtain a pass. In case of a second non-pass in July, students must undergo examination for all skills in future courses. Therefore, those passed parts will not be taken into account in the future or subsequent to course to the current one .

Partial or total plagiarism in any of the assignment or activity will result in an automatic non-pass on the subject. Plead ignorance of what plagiarism is, will not exempt students of their responsibility in this regard.

2.1. Final Assessment

The only assessment is computed as follows: Listening: 16%. Speaking: 32%. Reading: 16%. Writing 16%, whereas Use of English examination sums up 20%.

So the final mark will be established adding skills and Use of English test to sum up 100%, being 5 (five) the mark necessary to obtain a pass in all skills and short answer tests.

Regarding July assessment (second call assessment) continuous evaluation students will undergo examination for the specific parts of the subject contents not completed; while students of the only examination who failed in the previous exam notification (first call) must undergo an assessment of the total subject contents (100%).

Both continuous assessment and final assessment will take into account not only the relevance and appropriateness of the content of the answers, but also their linguistic correctness.

3. Additional considerations

3.1. Forbidden materials or devices

In addition, during the examinations no dictionaries, notes or electronic devices (mobile phones, tablets, PCs, etc.) will be allowed.

3.2. Information and deadlines

It is students' responsibility to check FAITIC or their e-mails to be kept up to date on the uploaded teaching materials, as well as to be aware of examination or submission dates.

3.3. Erasmus students

All the comments here indicated also pertain to Erasmus students. In the event of not being able to access information on FAITIC, students have to contact the teacher to solve the problem.

3.4. Ethical commitment. Students are requested to present an adequate ethical behaviour. In case of detecting an unethical behaviour (copying, plagiarism, use of not authorized electronic devices, and others) will be considered that the student does not meet the requisites necessary to pass the subject. In this case, the global qualification in the present academic course will be of a fail (0.0).

Sources of information

Basic Bibliography

Beigbeder Atienza, Federico, **Diccionario Técnico Inglés/Español; Español/Inglés**, Díaz de Santos,
Collazo, Javier, **Diccionario Collazo Inglés-Español de Informática, Computación y otras Materias**, McGraw-Hill,
Hornby, Albert Sidney, **Oxford Advanced Learner's Dictionary**, Oxford University Press,
Jones, Daniel, **Cambridge English Pronouncing Dictionary with CD**, Cambridge University Press,
Hewings, Martin, **English Pronunciation in Use, Advanced with Answers, Audio CDs and CD-ROM**, Cambridge University Press,
Murphy, Raymond, **English Grammar in Use 4th with Answers and CD-ROM**, Cambridge University Press,
Picket, Nell Ann; Laster, Ann A. & Staples Katherine E., **Technical English: Writing, Reading and Speaking**, Longman,

Complementary Bibliography

www.agendaweb.org,
www.bbc.co.uk/worldservice/learningenglish/,
www.edufind.com/english/grammar,
www.voanews.com/specialenglish,
iate.europa.eu, **Technical English Dictionary**,
www.howjsay.org, **A free online Talking English Pronunciation Dictionary**,

Recommendations

Other comments

We recommend students, who wish to take part in this course, to have a prior A1 level in English so as to reach the A2 level, according to the Common European Framework of Reference for Languages of the Council of Europe.

Requisites:

To register in this subject it is necessary to have passed or to be registered for all the subjects of the lower-division courses to the course where this subject is placed.

We also recommend continuous assessment due to the methodology used to practice and consolidate the learning process of the subject contents. Therefore, the active participation of students is essential to pass the Technical English subject requisites.

It is advisable to check the School's lectures timetable so as to avert incompatibility of attendance with any other subject. Therefore students will not be permitted to sit for continuous evaluation if there is overlap.

In order to avoid damaging computers, students will not be allowed to take drinks or food into the classroom. If the ingestion of liquid or food is necessary, students must show an official medical prescription.
