Subject Description:

TECHNOLOGICAL ENGLISH I

Degree: Industrial Organization Engineering

1. Subject data

Name	Technological English I
Subject area	Languages
Module	Compulsory subjects
Code	511102006
Degree programme	Industrial Organization Engineering Degree
Curriculum	2009 (Decree 269/2009 31st july)
Centre	University Centre of Defence. Spanish Air Force Academy.
Type	Compulsory
Duration	Four-month subject
Year	2018-2019
Language	English

ECTS	4.5	**Hours / ECTS**	25	**Total workload (hours)**	112.5

2. Lecturer data

Lecturer in charge	Aránzazu García Pinar
Department	Foreign languages department
Knowledge area	English Language
Office location	Office CUD
Telephone	968 18 29 34
Fax	968189970
E-mail	Arancha.garcia@cud.upct.es
URL/Web	UPCT virtual class (www.upct.es)
Office hours	See virtual class
Location	Office 32 CUD
Qualification/degree	English degree
Academic rank at CUD-UPCT	Assistant professor
Year of admission in CUD-UPCT	2013
Research line	Applied linguistics Second and foreign language acquisition English for Specific Purposes Multimodality

Number of five-year periods (quinquenios) if applicable	
Professional experience	Dpt. of Languages- University Politécnica de Cartagena (UPCT) Dpt. of Languages - Centro Universitario de la Defensa UPCT Technical translator Freelance translator
Number of six-year periods (sexenios) if applicable	
Professional experience (if applicable)	
Other topics of interest	

Lecturer	Dr. Clara Pallejá López		
Department	Foreign languages department		
Knowledge area	English Language		
Office location	Office CUD 32		
Telephone	968 18 99 09	**Fax**	968189970
E-mail	clara.palleja@cud.upct.es		
URL/Web	UPCT virtual class (www.upct.es)		
Office hours	See virtual class		
Location	Office 09 CUD		
Qualification/degree	Doctorate		
Academic rank at CUD-UPCT	Assistant professor		
Year of admission in CUD-UPCT	2017		
Number of five-year periods (quinquenios) if applicable			
Research line	Second language acquisition Language for Specific Purposes Reading/Writing processes and psychological determinants		
Number of six-year periods (sexenios) if applicable			
Professional experience	Dpt. of Languages, Skidmore College, New York Dpt. of Languages, The University of Auckland, New		

	Zealand Dpt. of Languages, UNITEC Institute of Technology, Auckland, New Zealand UCAM Catholic University of Murcia Centro Universitario de la Defensa
Other topics of interest	

3. Subject Description

3.1. General description

Technological English I is a subject devoted to the development of students' English language skills in a wide variety of fields, including aeronautical technology.

In this subject students will be trained to gradually develop oral and written communication skills, as well as grammar and vocabulary, in a variety of fields (cultural, social, scientific, technological, etc.), so as to progressively acquire a consolidated B1 level. This B1 level will be higher than in previous language subjects of the degree (i.e English Language I).

3.2. How the subject contributes to the professional career

Students will be trained in listening comprehension of aeronautical and technological English. They will also learn to make and defend oral and written arguments, convey information and solve problems using English as a language of interaction.

3.3. Relationship with other subjects in the programme

Technological English II is interrelated with previous language subjects of the degree (English Language I; Technological English I).

3.4. Incompatibilities defined in the programme

It is compulsory to have passed English language I.

3.5. Recommendations

Students are required to have a B1 level before starting the current subject.

3.6. Special Foreseen Measures

Special measures will be adopted to allow learners to combine this subject with military training activities. More specifically, individual and group tutorials will be scheduled during the whole subject. E-tutorials will also be available during the whole academic year.

4. Competences and Learning Outcomes

4.1. Basic curricular competences related to the Subject

BC2. Students must know how to professionally apply their knowledge to their work or vocation and have the skills to make and defend arguments and solve problems in their area of study.

4.2. General curricular competences related to the subject

GC3. Ability to work in a multilingual environment.

4.3. Specific curricular competences related to the subject

SC27. Communicate effectively in a foreign language.

4.4. Cross-curricular competences related to the subject

CCC5. Practical application of the acquired knowledge

4.5. Learning outcomes

By the end of the subject, students will have developed receptive (i.e. listening and reading) and productive (i.e. writing and speaking) skills, grammar, and technological vocabulary at a consolidated B1 level according to the *Common European Framework of*

Reference for Languages. This B1 level will be higher than in previous language subjects of the degree (English Language I). In addition, students will have also learned some vocabulary about military English.

5. Contents

5.1. Curricular contents related to the subject

The contents include a wide range of activities about vocabulary, grammar, reading, listening, writing and speaking following the Common European Framework of Reference for Languages at B1 level, which will be higher than in previous language subjects of the degree (English Language I). In addition, students will also be taught some vocabulary about military English by the USAF staff.

5.2. Theoretical Syllabus

Unit 1. Technology in use

Unit 2. Materials technology

Unit 3. Components and assemblies

Unit 4. Design

Unit 5.Technical problems

Instrumental English

In all the didactic units, there will be a review of grammatical features that are relevant for each unit. In addition, the four communicative skills will be practiced using technological and military vocabulary.

5.3. Practical Syllabus

The practical sessions will be devoted to the development of students' listening and speaking skills using a wide range of material from textbooks and Internet resources at a consolidated B1 level, which will be higher than in previous language subjects of the degree (English Language I).

Risk prevention

Promoting the continuous improvement of working and study conditions of the entire university community is one the basic principles and goals of the Universidad Politécnica de Cartagena.

Such commitment to prevention and the responsibilities arising from it concern all realms of the university: governing bodies, management team, teaching and research staff, administrative and service staff and students.

The UPCT Service of Occupational Hazards (*Servicio de Prevención de Riesgos Laborales de la UPCT*) has published a "Risk Prevention Manual for new students" (*Manual de acogida al estudiante en materia de prevención de riesgos*), which may be downloaded from the e-learning platform ("Aula Virtual"), with instructions and recommendations on how to act properly, from the point of view of prevention (safety, ergonomics, etc.), when developing any type of activity at the University. You will also find recommendations on how to proceed in an emergency or if an incident occurs.

Particularly when carrying out training practices in laboratories, workshops or field work, you must follow all your teacher's instructions, because he/she is the person responsible for your safety and health during practice performance. Feel free to ask any questions you may have and do not put your safety or that of your classmates at risk.

5.4. Theoretical Syllabus in English

The Subject ***Technological English I*** aims at the development of consolidated B1 level competences, according to the *Common European Framework of Reference for Languages.* This B1 level will be higher than in previous language subjects of the degree (English Language I).

5.5. Detailed description of learning goals

Unit 1. Technology in use

-Describe technical functions and applications

-Explain how technology works

-Emphasise technical advantages

-Simplify and illustrate technical explanations

Unit 2. Materials technology

-Describe specific materials

-Categorise materials

-Specify and describe properties

-Discuss quality issues

Unit 3. Components and assemblies

-Describe component shapes and features

-Explain and assess manufacturing techniques

-Explain assembly techniques

Unidad 4. Diseño

-Discuss dimensions and precision

-Describe design phases and procedures

-Resolve design problems

Unit 5.Technical problems

-Describe types of technical problems

-Assess and interpret faults

-Describe the causes of faults

-Discuss repairs and maintenance

Instrumental English
-Review and develop grammatical features, which are relevant for each thematic unit, as well as practice the four communicative skills using specific technological and military vocabulary. Develop comprehension and expression skills at a consolidated B1 level, which will be higher than in previous language subjects of the degree (English language I; Technological English I), showing linguistic accuracy in the use of grammar, technological and military vocabulary as well as effectiveness in communication.

6. Teaching methodology

6.1. Teaching Methodology			
Teaching Activity	**Teaching Techniques**	**Student's workload**	**HOURS**
Theoretical sessions	Explanation of contents and guidance for the completion of activities	<u>Attendance</u>: attendance and active participation	**30**
Practical sessions	Guidance for the completion of activities	<u>Attendance</u>: attendance, active participation, and completion of activities in class	**15**
		<u>Non-attendance</u>: Previous preparation of practical activities before the sessions	**9**
Individual tasks	Provision of feedback and guidance	<u>Attendance</u>: completion of individual tasks on reading, listening and use of English in class	**10**
		<u>Non-attendance</u>: preparation of individual tasks and writing activities at home	**18**
Tutorials	Guidance	<u>Attendance</u>: attendance to tutorials	**5.5**
Assessment	Preparation of exams and evaluation	<u>Attendance</u>: Exams	**5**
		<u>Non-attendance</u>: preparation of exams	**20**
TOTAL			**112.5**

6.2. Learning Outcomes (4.5)/ Teaching Methodology (6.1)

Teaching Methodology(6.1)					
Learning outcomes (4.5)	THEORETICAL SESSIONS	PRACTICAL SESSIONS	INDIVIDUAL TASKS	TUTORIALS	ASSESSMENT
Receptive skills (i.e. listening and reading) at an advanced B1 level	■	■	■	■	■
Productive skills (i.e. speaking and writing) at an advanced B1 level	■	■	■	■	■
Grammar and vocabulary at an advanced B1 level	■	■	■	■	■
Technological vocabulary	■	■	■	■	■
Vocabulary about military English		■		■	■

7. Assessment method

7.1. Assessment method

Instruments of assessment		Type		Assessment methods and criteria	Percentage (%)	Learning Outcomes (4.5)
		Summative	Formative			
Oral exam		■		**Oral exam:** Communicative competence: linguistic accuracy, correct pronunciation, fluency, clarity and coherence (i.e. syntax, semantics and pragmatics) in the presentation of contents according to the expected level in the second year.	12%	-Receptive and productive skills -Grammar Technological vocabulary -Vocabulary about military English
Listening comprehension exam		■		**Listening comprehension exam:** Linguistic accuracy according to the expected level in the second year. Quality and quantity of comprehension according to the expected level in the second year.	12%	
Use of English (grammar and vocabulary)		■		Linguistic accuracy and complexity according to the expected level in the second year.	12%	-Grammar Technological vocabulary
Reading comprehension exam		■		**Reading comprehension:** Quality and quantity of reading comprehension according to the expected level in the second year.	12%	-Receptive and productive skills -Grammar - Technological vocabulary -Vocabulary about military English
Written exam		■		**Written exam:** Communicative competence in written production: linguistic accuracy and complexity, clarity and coherence (i.e. syntax, semantics and pragmatics) in the logical sequencing and development of ideas (i.e. structure) according to the expected level in the second year.	12%	
Individual tasks	Essays		■	Communicative competence in written production: linguistic accuracy and complexity, clarity and coherence (i.e. syntax, semantics and pragmatics) in the logical sequencing and development of	10%	-Productive skills -Grammar Technological vocabulary

			ideas (i.e. structure) according to the expected level in the second year.		
	Practical activities on listening, reading and use of English	■	**Listening and reading activities**: quality and quantity of comprehension according to the expected level in the second year. Linguistic accuracy according to the expected level in the first year. **Speaking activities** linguistic accuracy and complexity according to the expected level in the second year.	20% 10%	-Receptive skills -Grammar Technological vocabulary -Vocabulary about military English

As set forth in article 5.4 of the *Reglamento de las pruebas de evaluación de los títulos oficiales de grado y de máster con atribuciones profesionales (UPCT)*, students in the special circumstances listed in the article 5.4 are entitled to a comprehensive assessment test, upon justified request which must be granted by the Department. This does not exempt them from carrying out compulsory tasks included in the teacher's guide of the subject (official syllabus).

IMPORTANT NOTE: In order to pass the subject it will be compulsory to obtain 5 points out of 10 in each of the instruments of assessment: oral exam; listening comprehension exam; use of English exam; reading comprehension exam; written exam. In case of not obtaining 5 out of 10 points in one or several of the instruments of assessment, the final grade of the subject will be the mark obtained in the individual tasks.

7.2. Control and monitoring methods

Formative evaluation will be carried out throughout the academic year using different instruments such as diagnostic tests and individual tasks. The diagnostic tests will be used to assess learners' initial knowledge. The content of the present syllabus may be adapted and expanded according to the results of the diagnostic tests.

8. Resources and Bibliography

8.1. Basic Bibliography

Glendinning, E.H., & Pohl, A. (2008). *Oxford English for Careers: Technology 2.* Oxford: Oxford University Press.

Gross,. G. & Zeter, J. (2011) *Career Paths: Air Force.* Newbury: Express Publishing.

Hewings, M. (2010). *Advanced Grammar in Use.* Cambridge: Cambridge University Press.

Ibbotson, M. (2008*). Cambridge English for engineering*. Cambridge: Cambridge University Press.

Murphy, R. (2010). *English Grammar in Use*. Cambridge: Cambridge University Press.

Redston, C., Cunningham, G., & Clementson, T. (2011). *Face 2 face Upper Intermediate* Cambridge: Cambridge University Press.

Vince, M. (2008). *English Grammar in Context*. *Advanced. Oxford: Macmillan.*

8.2. Supplementary Bibliography

Butler, L. (2007). *Fundamentals of academic writing*. Pearson

García de la Cuesta, J. (2011) *Aviation terminology.Terminología aeronáutica.* Diccionario aeronáutico español-inglés/inglés-español. Díaz de Santos (Barcelona).

Hancock, M., & Donna, S. (2012). *English pronunciation in use intermediate*. Cambridge University Press

Hogue, A. (2008). *First steps in academic writing*. Pearson

Marks, J.(2007). *English pronunciation in use (elementary).* Cambridge University Press

Oshima, A., & Hogue, A. (2006). *Introduction to academic writing*. Pearson

Oshima, A., & Hogue, A. (2006). *Writing Academic English*. Pearson

Oxeden, C., & Latham-Koenig, Ch. (2008). *New English File. Upper Intermediate*. Oxford University Press.

Shawcross, P.(1992). *English for aircraft 1: documentation handbook*. Éditions Belin (Paris)

Velasco Sales, J.(1994). *Diccionario aeronáutico civil y militar*. Paraninfo

8.3. Online resources and others

http://www.bbc.com/news

http://www.bbc.co.uk/radio

http://dictionary.cambridge.org/

http://www.collinsdictionary.com/dictionary/english-spanish

http://www.internetradiouk.com/#talk-sport-uk

http://www.listenlive.eu/uk.html

http://www.macmillandictionary.com/

http://www.nytimes.com/

http://www.oxforddictionaries.com/

http://www.surfmusic.de/country/uk.html

http://www.thebigproject.co.uk/news/#.VbmOacIw9kg