



IDENTIFYING DATA

Technical English

Subject	Technical English			
Code	V04M127V01105			
Study programme	(*)Máster Universitario en Procesos de Deseño e Fabricación Mecánica			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	3	Mandatory	1st	1st
Teaching language	English			
Department				
Coordinator	Peláez Lourido, Gustavo Carlos			
Lecturers	Larsson , Olof Christian Peláez Lourido, Gustavo Carlos Prieto Renda, Daniel Tjahjono , Benny Eko Veleiro Acuña, María Esperanza			
E-mail	gupelaez@uvigo.es			
Web	http://fatic.uvigo.es/index.php/en/materias			
General description	English language is a key factor for both junior to senior managers in technologies and systems of design and manufacture processes.			

Competencies

Code	
A2	The students should know how to apply the knowledge achieved and their ability for solving problems in new or little known environments inside wider contexts (or multidisciplinary) related with thier field of study.
A3	The students will be able to integrate knowledge and face the complexity in the assessment, from an information that could be incomplete or limited, that includes reflections on the social and ethical responsibilities linked to the application of their knowledge and assessments.
A4	The students will know how to communicate their conclusions, and the knowledge and reasons that support them, to an expert or non-expert audience in a clear and without ambiguities way.
A5	The students will get the skills for learning which allow them to continue studying in a way that will have to be to a large extent selfdirected or autonomous.
B7	Ability to communicate with non-expert people in the subject and to convey concepts, specifications and functionalities in an engineering environment, either by oral or written way
C3	Skills for the creating and and understanding technical documentation
D2	Skills for being member and leadering multidisciplinary projects teams
D4	Capacity of communication and negotiation in various situations and in front of expert and non expert people.
D5	Skills for communicate and make presentations in english language
D6	Capacity of continuos learning either autonomusly or directed

Learning outcomes

Expected results from this subject	Training and Learning Results
1. Endow to the student of the specific vocabulary of his field to communicate without obstacles on technical subjects with foreign people.	A3 A4 A5 B7 C3 D2 D4 D5

2. Endow To interpret and draft reports, instructions and and e-mails with technical content in English	A2 A3 B7 C3 D4 D5 D6
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Contents

Topic

1. General presentation Skills	- Common expressions in the presentations. - Oral expression. - How to make a presentation.
3. English in the field of the design and the selection of materials	- Describe specific materials. - Classify Materials. - Specify and describe properties. - Qualitative characteristics.
4. Components and assemblings in the field of equipment , manufacture, service and quality	- Describe the form and characteristic of components. - Explain and evaluate manufacturing technologies. - Explain technologies of union and fixation. - Describe components and their assembling.

Planning

	Class hours	Hours outside the classroom	Total hours
Master Session	3	0	3
Proceedings	1	0	1
Case studies / analysis of situations	4	6	10
Seminars	1	1	2
Presentations / exhibitions	4	12	16
Classroom work	2	0	2
Tutored works	0	10	10
Forum Index	0	2	2
Previous studies / activities	0	2	2
Autonomous practices through ICT	0	3	3
Projects	1	7	8
Introductory activities	2.8	0	2.8
Multiple choice tests	0.3	7	7.3
Systematic observation	0.4	0	0.4
Self-assessment tests	0.1	0	0.1
Jobs and projects	0.4	5	5.4

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

Methodologies

	Description
Master Session	Exhibition by part of the professor of the contents on the matter object of study, theoretical bases and/or guidelines of a work, exercise or project to develop by the student.
Proceedings	Open talk between a group of students. It can centre in a subject of the contents of the matter, in the analysis of a case, in the result of a project, exercise or problem developed previously in a lecture
Case studies / analysis of situations	Analysis of a fact, problem or real event with the purpose to know it, interpret it, resolve it, generate hypothesis, contrast data, *reflexionar, complete knowledges, diagnose it and train in alternative procedures of solution.
Seminars	Activities focused to the work on a specific subject, that allow to deepen or complement the contents of the matter. Can employ as I complement of the theoretical classes.
Presentations / exhibitions	Exhibition by part of the students iin front of the educational and/or a group of students of a subject on contents of the matter or of the results of a work, exercise, project... Can carry out of individual way or in group.
Classroom work	The student develops exercises or projects in the classroom under the guidelines and supervision of the professor. It can be linked his development with autonomous activities of the student.
Tutored works	The student, of individual way or in group, elaborates a document on the thematic of the matter or prepares seminars, investigations, memories, essays, summaries of readings, conferences, etc. Generally treats of an autonomous activity of/of the student/s that includes the research and collected of information, reading and handle of bibliography, editorial...

Forum Index	Activity developed in some virtual surroundings in which they debate diverse subjects related with the academic field and/or professional
Previous studies / activities	Research, reading and work of documentation, proposals of resolution of problems and/or exercises that will realise in the classroom and/or laboratory of autonomous form by part of the students.
Autonomous practices through ICT	Activities of application of the knowledges to concrete situations and of acquisition of basic skills and procedures related with the matter object of study. They are developed through the TIC of autonomous way.
Projects	Realisation of activities that allow the cooperation of several subjects and confront to the students, working in team, to open problems. They allow to train, between others, the capacities of learning in cooperation, of leadership, of organisation, of communication and of strengthening of the personal relations.
Introductory activities	Activities directed to take contact and gather information on the students, as well as to present the subject.

Personalized attention

Methodologies	Description
Proceedings	It realises the follow-up and interrelationship with each student along the sessions of debate that can be of a subject or open dialogue that offer an individual student or a group
Case studies / analysis of situations	personal or group doubts are answered in cases studies and analysis of situations
Presentations / exhibitions	The teacher promotes a dialogue that allows to exchange opinions individually and/or by group.
Classroom work	The professor devotes time to check the individual development of each exercise or Project and to assess the autonomous activity.
Tutored works	Teachers propose, supervise, revise and correct the documents prepared personally or in groups in order to consolidate the process of learning in an individual way.
Projects	The teaching staff will coordinate the individual activities of proposal, follow-up and control at a personal level and/or preferably at project groups level.
Tests	Description
Multiple choice tests	Acquired competencies are evaluated individually through a multiple choice exam, described in detail in the evaluation section.
Systematic observation	Follow-up through different techniques that are oriented to know the attitude, participation and skills acquired by the student, in an individualized way, that can be carried out at personal level as well as group level.
Self-assessment tests	Tests throughout the subject development that can be of various types, in which is sought the evaluation of the attitude and participation, in an individual way
Jobs and projects	Teachers will make the proposals, monitoring and control as well as the assessment of classworks and projects, individually and/or by group.

Assessment

Assessment	Description	Qualification	Training and Learning Results			
Multiple choice tests	Proofs developed in any one of the formats of the questionnaire of the platform, with priority for the ones of multiple election and only one answer. Results of learning: Endow to the student of the specific vocabulary of his field to communicate without obstacles on technical subjects with foreign people	33.4	A3 A4 A5	B7	C3 D2 D4 D5	
Systematic observation	Group of technics and tools to gather information of the student, from the analysis of appearances such like attendance and attitude: participation, dynamism, adaptation, collaboration, proactivity, etc. Results of Learning: Endow to interpret and draft reports, instructions and and e-mails with technical content in English	17.3	A2 A3	B7	C3 D4 D5 D6	

Self-assessment tests	Proofs in which the student values his attainments in function of the aims proposed and determines the factors that can influence in his performance. They develop the continuous evaluation like part of the registered attendance. Results of Learning: Endow to the student of the specific vocabulary of his field to communicate without obstacles on technical subjects with foreign people	16	A3 B7 C3 D2 A4 D4 A5 D5
Jobs and projects	The students is evaluated through the exhibition in front of a jury of professors of the matter of the works and/or projects realised of individual form or in group. Results of learning: Endow to interpret and draft reports, instructions and and e-mails with technical content in English	33.3	A2 B7 C3 D4 A3 D5 D6

Other comments on the Evaluation

Ethical commitment:

It expects that the present student a suitable ethical behaviour. In case to detect a no ethical behaviour (copy, plagiarism, utilisation of unauthorised electronic devices, for example), will consider that the student does not gather the necessary requirements to surpass the matter. Depending of the type of behaviour no ethical detected, could conclude that the student has not reached the necessary competitions to surpass the matter.

It expects of the student a respectful behaviour, worthy and of collaboration with the educational system, teachers, coordination and personnel of administration and services of the master. Any question been due to the fault of ethical and worthy behaviour of the student will be able to have repercussion on the evaluation of the matter.

As it establishes in the memory of the title inside the general procedure to value the process and the results: In each matter the responsible professor will assign a note to each student in function of his attitude and participation.

For this matter, in concrete, in the component self -value and in the one of systematic observation, will be able to be considered the attendance and for this will take into account the signatures of the students in the face-to-face sessions.

It will publish , anyway and in each academic course, rules of evaluation to clear how can group and disseminate these percentages to complete the deployment of the distribution of the system proposed in the memory of the master to the educational guides of each matter.

Sources of information

Basic Bibliography

Ibbotson, Mark, **Cambridge English for Engineering**, Cambridge University press, 2008

Ibbotson, Mark, **Professional English in Use: engineering : technical English for professionals**, Cambridge University, 2009

Complementary Bibliography

McCarthy, Michael & O'Dell, Felicity, **English Vocabulary in Use. Upper-Intermediate & Advanced.**, 2nd, Cambridge University press, 2012

Hewings, Martin, **Grammar and vocabulary for advanced : with answers**, Cambridge University press, 2015

McCarthy, Michael & Felicity O'Dell, **English Vocabulary in Use. Upper-Intermediate & Advanced.**, 2nd, Cambridge University press, 2013

Shovel, Martin, **Making Sense of Phrasal Verbs**, ELB Publishing, 2002

Swan, Michael, **Practical English Usage**, Oxford University Press, 2016

Jones, Daniel, **English Pronouncing Dictionary**, 18th, Cambridge University press, 2011

Curtis, Stephen Carpenter, Edwin, **Cambridge Word Selector**, Cambridge University press, 1995

María Asunción Jaime Pastor, María Amparo Díaz Tortosa, **Technical English for industrial engineering. Part I**, Universitat Politècnica de Valencia, 2011

Recommendations

Subjects that it is recommended to have taken before

Planning, Management and Development Projects/V04M127V01101

Sustainability in Product Design and Manufacturing Systems/V04M127V01103

Other comments

The communications with the students will do through the education platform Faitic, so it is necessary that the student

access the web place of the subject in the platform before the starting of the teaching. Before the exams, is convenient to consult this web place in Fatic, to confirm dates, place, recommendations, etc., as well as the need to know the rules, manuals or any another material for the realisation of the examinations and the resolution of any type of exercises proposed
