



POLITÉCNICA

INTERNATIONAL
CAMPUS OF
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COORDINATION PROCESS OF
LEARNING ACTIVITIES
PR/CL/001

ingeniería
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industrial

E.T.S. de Ingeniería y Diseño
Industrial

ANX-PR/CL/001-01

LEARNING GUIDE

SUBJECT

565000732 - English For Professional And Academic Communicatio

DEGREE PROGRAMME

56EE - Doble Grado En Ingeniería Electrica Y En Ing. Electro Industrial Y Automati

ACADEMIC YEAR & SEMESTER

2025/26 - Semester 1

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1. Description

1.1. Subject details

Name of the subject	565000732 - English For Professional And Academic Communicatio
No of credits	6 ECTS
Type	Compulsory
Academic year of the programme	Second year
Semester of tuition	Semester 3 Semester 4
Tuition period	September-January
Tuition languages	English
Degree programme	56EE - Doble Grado en Ingeniería Eléctrica y en Ing. Electro Industrial y Automati
Centre	56 - E.T.S. De Ingeniería Y Diseño Industrial
Academic year	2025-26

2. Faculty

2.1. Faculty members with subject teaching role

Name and surname	Office/Room	Email	Tutoring hours *
Carmen Sancho Guinda	C105	carmen.sguinda@upm.es	Sin horario. By appointment.
Leticia Fernandez Hatre Alvarez Hevia	C104	l.fernandezhatre@upm.es	Sin horario. By appointment.
Aurora Rose Martorell Cravea	C104	ar.martorell@upm.es	Sin horario. By appointment.

Ismael Arinas Pellon	C-103	ismael.arinas@upm.es	Sin horario. By appointment.
Salvador Rodriguez Nuero	A-005	salvador.rodriguez@upm.es	Sin horario. By appointment.
Oscar Oliver Santos Sopena	A005	oscar.santos.sopena@upm.es	Sin horario. By appointment.
Maria Guadalupe Dorado Escribano (Subject coordinator)	C-104	mariaguadalupe.dorado@upm.es	Sin horario. By appointment.

* The tutoring schedule is indicative and subject to possible changes. Please check tutoring times with the faculty member in charge.

3. Prior knowledge required to take the subject

3.1. Prerequisite (passed) subjects

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- Nivelacion B2 en Lengua Inglesa

3.2. Other required learning outcomes

The subject - other required learning outcomes, are not defined.

4. Prior knowledge recommended to take the subject

4.1. Recommended (passed) subjects

The subject - recommended (passed), are not defined.

4.2. Other recommended learning outcomes

- Acreditación nivel B2 en lengua inglesa

5. Skills and learning outcomes *

5.1. Skills to be learned

EIA.CG 03 - Aplicar los conocimientos adquiridos para identificar, formular y resolver problemas en contextos amplios, siendo capaces de integrar los trabajando en equipos multidisciplinares

EIA.CG 05 - Comunicar conocimientos y conclusiones, tanto de forma oral como escrita, a públicos especializados y no especializados de modo claro y sin ambigüedades.

EIA.CG 06 - Poseer las habilidades de aprendizaje que permitan continuar estudiando a lo largo de toda la vida para un desarrollo profesional adecuado

EIA.CG 08 - Uso de la lengua inglesa a nivel escrito y oral.

EIA.CG 09 - Organización y planificación de proyectos y equipos humanos. Trabajo en equipo y capacidad de liderazgo.

EIA.CG 10 - Creatividad.

5.2. Learning outcomes

RA23 - Conocimientos y capacidades para entender las ideas principales de textos complejos de carácter general y de especialidad

RA27 - Capacidad de relación con hablantes en inglés con un grado suficiente de fluidez y naturalidad.

RA24 - Capacidad de producción de textos claros y detallados sobre temas diversos.

RA25 - Capacidad de defender ideas y puntos de vista indicando pros y contras de las distintas opciones

* The Learning Guides should reflect the Skills and Learning Outcomes in the same way as indicated in the Degree Verification Memory. For this reason, they have not been translated into English and appear in Spanish.

6. Brief description of the subject and syllabus

6.1. Brief description of the subject

This course is designed to develop the communicative competence required for effective participation in both academic and professional contexts within the field of industrial engineering. Emphasis is placed on the use of English for the accurate and efficient transmission of technical information, the articulation of engineering processes, and the discussion of design, materials, and system functionality.

The course integrates the four macro-skills: reading, writing, listening, and speaking; with a focus on the micro-skills most relevant to engineering communication, such as describing, explaining, comparing, evaluating, and problem-solving. These skills are contextualized within engineering scenarios to ensure relevance and applicability.

A task-based approach underpins the course methodology. Learners engage in complex communicative tasks that simulate real-world engineering situations, allowing them to apply language structures and vocabulary previously introduced and practiced in class. These tasks are designed to mirror the types of interactions and documentation commonly encountered in academic coursework, technical documentation, collaborative projects, and workplace communication.

6.2. Syllabus

1. Unit 1: Technology in use
 - 1.1. Describing technical functions and applications
 - 1.2. Explaining how technology works
 - 1.3. Emphasizing technical advantages
 - 1.4. Simplifying and illustrating technical explanations.
2. Unit 2: Materials technology
 - 2.1. Describing specific materials
 - 2.2. Categorizing materials
 - 2.3. Discussing quality issues
 - 2.4. Specifying and describing properties
3. Unit 3: Components and assemblies
 - 3.1. Describing components features and shapes
 - 3.2. Explaining and assessing manufacturing techniques
 - 3.3. Explaining jointing and fixing techniques
 - 3.4. Describing positions of assembled components
4. Unit 4: Engineering design
 - 4.1. Working with drawings
 - 4.2. Discussing dimensions and precision
 - 4.3. Describing phases and procedures
 - 4.4. Resolving design problems
5. Unit 5: Breaking point
 - 5.1. Describing types of technical problems
 - 5.2. Assessing and interpreting faults
 - 5.3. Describing the cause of faults
 - 5.4. Discussing repairs and maintenance
6. Unit 6: Technical development
 - 6.1. Discussing technical requirements

6.2. Suggesting ideas and solutions

6.3. Assessing feasibility

6.4. Describing improvements and redesigns

7. Schedule

7.1. Subject schedule*

Week	Type 1 activities	Type 2 activities	Distant / On-line	Assessment activities
1	Introducción y presentación tema 1: Duration: 01:00 Cooperative activities	Actividades de comprensión y expresión oral Duration: 03:00 Research-based learning		
2	Introducción y presentación tema 1: Duration: 01:00 Cooperative activities	Actividades de comprensión y expresión oral Duration: 03:00 Research-based learning		Skills lab I Other assessment Progressive assessment Presential Duration: 00:15
3	Tema 2 Duration: 01:00 Cooperative activities	Actividades de comprensión y expresión oral Duration: 03:00 Research-based learning		
4	Tema 2 Duration: 01:00 Cooperative activities Tema 2 Duration: 01:00 Cooperative activities	Actividades de comprensión y expresión oral Duration: 01:00 Gamification Actividades de comprensión y expresión oral Duration: 01:00 Research-based learning		Skills lab II Other assessment Progressive assessment Presential Duration: 00:15
5	Actividades de comprensión y expresión oral Duration: 01:00 Laboratory assignments	Actividades de comprensión y expresión oral Duration: 03:00 Research-based learning		
6	Tema 3 Duration: 01:00 Cooperative activities Tema 3 Duration: 01:00 Cooperative activities	Actividades de comprensión y expresión oral Duration: 02:00 Design thinking		Skills lab III Other assessment Progressive assessment Presential Duration: 00:15
7	Tema 3 Duration: 01:00 Cooperative activities Tema 3 Duration: 01:00 Cooperative activities	Actividades de comprensión y expresión oral Duration: 01:00 Inverted classroom Actividades de comprensión y expresión oral Duration: 01:00 Inverted classroom		

8	<p>Tema 3 Duration: 01:00 Cooperative activities</p> <p>Tema 3 Duration: 01:00 Cooperative activities</p>	<p>Actividades de comprensión y expresión oral Duration: 02:00 Artificial intelligence</p>		<p>Skills lab IV Other assessment Progressive assessment Presential Duration: 00:15</p>
9	<p>Tema 4 Duration: 01:00 Cooperative activities</p> <p>Tema 4 Duration: 01:00 Cooperative activities</p>	<p>Actividades de comprensión y expresión oral Duration: 02:00 Cooperative activities</p>		
10	<p>Tema 4 Duration: 01:00 Cooperative activities</p> <p>Tema 4 Duration: 01:00 Cooperative activities</p>	<p>Actividades de comprensión y expresión oral Duration: 01:00 Design thinking</p> <p>Actividades de comprensión y expresión oral Duration: 01:00 Inverted classroom</p>		<p>Skills lab V Other assessment Progressive assessment Presential Duration: 00:15</p>
11	<p>Tema 5 Duration: 01:00 Cooperative activities</p>	<p>Actividades de comprensión y expresión escritas Duration: 03:00 Research-based learning</p>		
12	<p>Tema 5 Duration: 01:00 Cooperative activities</p>	<p>Actividades de comprensión y expresión escritas Duration: 02:00 Inverted classroom</p>		
13	<p>Tema 6 Duration: 02:00 Cooperative activities</p>	<p>Actividades de comprensión y expresión oral Duration: 02:00 Inverted classroom</p>		
14	<p>Tema 6 Duration: 01:30 Cooperative activities</p>	<p>Actividades de comprensión y expresión oral Duration: 01:30 Cooperative activities</p>		<p>Skills Lab VI Other assessment Progressive assessment Presential Duration: 00:15</p>
15	<p>Tema 6 Duration: 02:00 Cooperative activities</p>	<p>Actividades de comprensión y expresión oral Duration: 02:00 Inverted classroom</p>		<p>Oral presentation Individual presentation Progressive assessment Presential Duration: 00:15</p>
16				
17				<p>Final Exam Written test Progressive assessment and Global Examination Presential Duration: 02:00</p> <p>Skills labs test Written test Global examination Presential Duration: 01:00</p> <p>Reading comprehension test Written test</p>

				<p>Progressive assessment and Global Examination Presential Duration: 00:30</p> <p>Oral presentation Individual presentation Global examination Presential Duration: 00:15</p>
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Depending on the programme study plan, total values will be calculated according to the ECTS credit unit as 26/27 hours of student face-to-face contact and independent study time.

8. Activities and assessment criteria

8.1. Assessment activities

8.1.1. Assessment

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
2	Skills lab I	Other assessment	Face-to-face	00:15	5%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09 EIA.CG 10
4	Skills lab II	Other assessment	Face-to-face	00:15	5%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09 EIA.CG 10
6	Skills lab III	Other assessment	Face-to-face	00:15	5%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09 EIA.CG 10
8	Skills lab IV	Other assessment	Face-to-face	00:15	5%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09 EIA.CG 10
10	Skills lab V	Other assessment	Face-to-face	00:15	5%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09 EIA.CG 10
14	Skills Lab VI	Other assessment	Face-to-face	00:15	5%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09 EIA.CG 10

15	Oral presentation	Individual presentation	Face-to-face	00:15	15%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09 EIA.CG 10
17	Final Exam	Written test	Face-to-face	02:00	45%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09 EIA.CG 10
17	Reading comprehension test	Written test	Face-to-face	00:30	10%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09

8.1.2. Global examination

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
17	Final Exam	Written test	Face-to-face	02:00	45%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09 EIA.CG 10
17	Skills labs test	Written test	Face-to-face	01:00	30%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09 EIA.CG 10
17	Reading comprehension test	Written test	Face-to-face	00:30	10%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09
17	Oral presentation	Individual presentation	Face-to-face	00:15	15%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09 EIA.CG 10

8.1.3. Referred (re-sit) examination

Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
It will have the same characteristics and evaluation items as "Prueba de evaluación final": Final exam (45%), Skills labs test (30%), Oral presentation (15%), and Reading Comprehension Test (10%)	Other assessment	Face-to-face	03:15	100%	5 / 10	EIA.CG 03 EIA.CG 05 EIA.CG 06 EIA.CG 08 EIA.CG 09 EIA.CG 10

8.2. Assessment criteria

Formative evaluation criteria

The final mark will be computed as follows:

1. Final exam 45%: It will include the types of activities, tasks, content, functions, vocabulary, and topics covered in the syllabus.
2. Reading comprehension test on a given academic or professional text 10%
3. Oral presentation: 15%
4. Skills Labs I-VI 30%. If the student does not complete or pass one or more of the Skill Labs, he/she will have to sit the Skill Labs Test. It aims to assess that the student has mastered the skills we have worked on in class (oral/written expression and reading/listening comprehension of academic-professional texts and associated micro-skills).

To pass the course, students must achieve a score of 50% or higher in each assessment

component (1-4). Any component with a score below 50% will not be included in the calculation of the final grade.

Summative evaluation (Convocatoria ordinaria y extraordinaria):

The final mark will be computed as follows:

1. Final exam 45%: It will include the types of activities, tasks, content, functions, vocabulary, and topics covered in the syllabus.
2. Reading comprehension test on a given academic or professional text 10%
3. Oral presentation: 15%
4. Skills Labs Test I-VI 30%. It aims to assess that the student has mastered the skills we have worked on in class (oral/written expression and reading/listening comprehension of academic-professional texts and associated micro-skills).

To pass the course, students must achieve a score of 50% or higher in each assessment component. Any component with a score below 50% will not be included in the calculation of the final grade.

Students choosing this type of evaluation must contact the course coordinator to receive proper instruction two months before the final exam date. Students choosing this type of evaluation must contact the course coordinator to receive proper instruction two months before the final exam date.

Según Anexo III de la Normativa de Evaluación UPM: "Para poder matricularse en esta asignatura, el estudiante deberá acreditar previamente el nivel B1 del Common European Framework of Reference for Languages establecido por el Consejo de Europa o similar en lengua inglesa. Para poder superar la asignatura, el o la estudiante deberá acreditar el nivel B2 con una antelación de, al menos, cinco días hábiles previos al examen de la convocatoria ordinaria o extraordinaria, según corresponda. En caso de no hacerlo, el estudiante podrá alcanzar una calificación máxima de 4.0 en la convocatoria ordinaria, y será calificado como No Presentado en la convocatoria extraordinaria."

9. Teaching resources

9.1. Teaching resources for the subject

Name	Type	Notes
Cambridge English for Engineering	Bibliography	

10. Other information

10.1. Other information about the subject

Según Anexo III de la Normativa de Evaluación UPM: "Para poder matricularse en esta asignatura, el estudiante deberá acreditar previamente el nivel B1 del Common European Framework of Reference for Languages establecido por el Consejo de Europa o similar en lengua inglesa. Para poder superar la asignatura, el o la estudiante deberá acreditar el nivel B2 con una antelación de, al menos, cinco días hábiles previos al examen de la convocatoria ordinaria o extraordinaria, según corresponda. En caso de no hacerlo, el estudiante podrá alcanzar una calificación máxima de 4.0 en la convocatoria ordinaria, y será calificado como No Presentado en la convocatoria extraordinaria."