ANX-PR/CL/001-01
GUÍA DE APRENDIZAJE

ASIGNATURA

105001040 - English For Professional And Academic Communicatio

PLAN DE ESTUDIOS

10CD - Grado En Ciencia De Datos E Inteligencia Artificial

CURSO ACADÉMICO Y SEMESTRE

2025/26 - Primer semestre

Índice

Guía de Aprendizaje

1. Datos descriptivos

1.1. Datos de la asignatura

Nombre de la asignatura	105001040 - English For Professional And Academic Communicatio
No de créditos	6 ECTS
Carácter	Obligatoria
Curso	Cuarto curso
Semestre	Séptimo semestre Octavo semestre
Período de impartición	Septiembre-Enero
Idioma de impartición	Inglés/Castellano
Titulación	10CD - Grado en Ciencia de Datos e Inteligencia Artificial
Centro responsable de la titulación	10 - E.T.S. De Ingenieros Informáticos
Curso académico	2025-26

2. Profesorado

2.1. Profesorado implicado en la docencia

Nombre	Despacho	Correo electrónico	Horario de tutorías *
Jelena Bobkina Lukascuka	6004	jelena.bobkina@upm.es	M - 17:00 - 18:00 J - 10:00 - 15:00 Appointments to be booked by email in advance. Thank you.

Hanane Benali Taouis (Coordinador/a)	6004	hanane.benali@upm.es	M - 11:00 - 15:00 J - 13:00 - 15:00 Appointments to be booked by email in advance. Thank you.
Elena Montiel Ponsoda	6004	elena.montiel@upm.es	M - 12:00 - 15:00 J - 12:00 - 15:00 Appointments to be booked by email in advance. Thank you.
Patricia Martin Chozas	6204	patricia.martin@upm.es	M - 10:00 - 13:00 J - 10:00 - 13:00 Appointments to be booked by email in advance. Thank you

* Las horas de tutoría son orientativas y pueden sufrir modificaciones. Se deberá confirmar los horarios de tutorías con el profesorado.

3. Conocimientos previos recomendados

3.1. Asignaturas previas que se recomienda haber cursado

El plan de estudios Grado en Ciencia de Datos e Inteligencia Artificial no tiene definidas asignaturas previas recomendadas para esta asignatura.

3.2. Otros conocimientos previos recomendados para cursar la asignatura

- Students should send a copy of their B2 certificate to their tutor 5 working days before the writen exam.

- From all language certificates acknowledging B2 level, we strongly recommend against APTIS.

- B2 certification is required (SAI), according to the terms established by the Universidad Politécnica de Madrid

4. Competencias y resultados de aprendizaje

4.1. Competencias

CB03 - Que los estudiantes tengan la capacidad de reunir e interpretar datos relevantes (normalmente dentro de su área de estudio) para emitir juicios que incluyan una reflexión sobre temas relevantes de índole social, científica o ética

CB04 - Que los estudiantes puedan transmitir información, ideas, problemas y soluciones a un público tanto especializado como no especializado

CG01 - Capacidad de trabajo en equipo, en entornos interdisciplinares y complejos, negociando y resolviendo conflictos, diseñando soluciones eficientes, fiables, robustas y responsables.

CG03 - Capacidad de emprendimiento y de liderazgo para dirigir y gestionar equipos y proyectos, generando confianza y compromiso en el grupo de colaboradores.

CG04 - Capacidad para innovar y encontrar soluciones creativas en situaciones complejas o de incertidumbre en el ámbito de la ingeniería.

CG05 - Capacidad para trabajar en contextos internacionales e interdisciplinares, comunicándose en lengua inglesa y adaptándose a un nuevo entorno.

CG07 - Capacidad para integrar aspectos sociales, ambientales, económicos y éticos inherentes a la ingeniería, analizando sus impactos, y comprometiéndose con la búsqueda de soluciones a retos del desarrollo sostenible.

4.2. Resultados del aprendizaje

RA147 - Ability to create an abstract sketch of a research method

RA152 - Ability to read, understand and implement research publications

RA153 - RA-ING-1 Exponer temas académicos y profesionales de forma clara, precisa y coherente, en grupo o de forma individual, teniendo en cuenta el tipo de audiencia.

RA154 - RA-ING-2Recopilar y sintetizar información de fuentes bibliográficas, y redactar distintos tipos de textos según las convenciones propias de cada tipo textual.

RA163 - Capacidad para leer, comprender e implementar artículos científicos

RA116 - Dado un problema real elegir la tecnología de ciencia de datos o de inteligencia artificial existente en el mercado más apropiada para su solución y diseñar su desarrollo e integración analizando la viabilidad de su solución, lo que se puede y no se puede conseguir a través del estado actual de desarrollo de la tecnología usada, y lo que se espera que avance en el futuro

RA173 - RA154 - The student is able to write specialized-content documents

RA171 - RA153 - The student is able to write a logically organized and coherent document on a wide variety of topics and support his/her views

RA169 - RA155 - The student is able to collect information from different sources, i.e. lecturers and bibliographic resources

RA172 - RA151 - The student is able to communicate fluently and accurately in written and oral English in professional and academic environments

RA168 - RA152 - The student is able to understand complex and abstract ideas

5. Descripción de la asignatura y temario

5.1. Descripción de la asignatura

The main objective of this course is to make students aware of the importance of effective communication skills in academic or professional settings, with a strong focus on contemporary issues related to computer engineering, and to help them develop those skills to communicate effectively in both settings.

The course will be organized around science and technology-related topics, and several assignments that they must complete to pass the course.

It is expected that students can:

1. identify and describe major economic, environmental, and health problems, etc. for which a computer engineering solution could have a major impact on society;

2. identify different types of texts in their area of knowledge, as well as the register and tone typically used in scientific and technical texts;

3. read and summarise relevant materials about contemporary issues for which computer engineering may play a role, be it orally or in writing;

4. write coherent and cohesive texts that have a clear focus on contemporary issues, structuring, paragraphing, punctuation, etc.;

5. use correct references and citations from relevant materials about contemporary issues for which computer engineering may play a role;

6. develop listening comprehension skills in their area of knowledge;

7. use and explain figures and diagrams in a proper manner;

8. deliver a technical and scientific presentation about an original and innovative research idea that addresses contemporary issues relevant to computer engineering following the instructions explained in class and shared on Moodle;

As for the teaching methodology, we will follow a student-centered approach to learning in which the lecturer's role is to motivate students and facilitate their learning and overall comprehension of concepts and tasks. Student learning is assessed through both formal and informal forms of evaluation, including group projects,student and class participation. Teaching and assessment are connected, and student learning is continuously measured during teacher instruction.

Regarding teaching strategies, direct instruction will be combined with challenge-based learning and event cooperative learning at some stages. Inquiry-based learning will be the predominant teaching method. This method focuses on student investigation and hands-on learning. Students will "learn by doing" as much as possible, both in the case of writing assignments as well as when delivering oral presentations. Students will also learn from constructive feedback on their work and on the work of others, and will also get feedback from their peers.

5.2. Temario de la asignatura

1. What is Professional and Academic Communication? - Introduction to the course
    1.1. 21st Century Skills in the context of EPAC
    1.2. Description of assignments
2. Formulating a research idea
    2.1. Investigating current practices
    2.2. Covering research gaps
3. Academic writing strategies
    3.1. Research and evidence gathering
    3.2. AI for academic writing
    3.3. Ethical aspects of AI in writing
4. Oral communication strategies
    4.1. Debating current practices
    4.2. Public speaking essentials
5. Student's Oral Presentations
    5.1. Presenting students research ideas

6. Cronograma

6.1. Cronograma de la asignatura *

Sem	Actividad tipo 1	Actividad tipo 2	Tele-enseñanza	Actividades de evaluación
1		**Introduction to the course (I)** Duración: 02:00 LM: Actividad del tipo Lección Magistral **Gradebook description and group forming** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		
2		**Formulating a research idea: understanding the parts of a reseach document** Duración: 02:00 PR: Actividad del tipo Clase de Problemas **Formulating a research idea II: research idea presentation.** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		
3		**Investigating current practices I** Duración: 02:00 PR: Actividad del tipo Clase de Problemas **Investigating current practices II: Annotated bibliography.** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		
4		**Covering research gaps I: Debate** Duración: 02:00 PR: Actividad del tipo Clase de Problemas **Covering research gaps II: Debate** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		
5		**Academic writing strategies: Research and evidence gathering** Duración: 02:00 PR: Actividad del tipo Clase de Problemas **AI for academic writing I** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		
6		**AI for academic writing II** Duración: 02:00 PR: Actividad del tipo Clase de Problemas **Ethical aspects of AI in writing I** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		

7		**Ethical aspects of AI in writing II** Duración: 02:00 PR: Actividad del tipo Clase de Problemas **Academic writing: Practice** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		
8		**Oral communication strategies I: organization, format and style** Duración: 02:00 PR: Actividad del tipo Clase de Problemas **Oral communication strategies II: organization, format and style** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		
9		**Effective Oral Presentations III: Debating** Duración: 02:00 PR: Actividad del tipo Clase de Problemas **Effective Oral Presentations IV: Debating** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		
10		**Effective Oral Presentations: Public speaking essentials I** Duración: 02:00 PR: Actividad del tipo Clase de Problemas **Effective Oral Presentations: Public speaking essentials II** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		
11		**Academic writing - overview I** Duración: 02:00 PR: Actividad del tipo Clase de Problemas **Academic writing - overview II** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		
12		**Student's Oral Presentations (30% of the total grade)** Duración: 02:00 OT: Otras actividades formativas / Evaluación **Student's Oral Presentations (30% of the total grade)** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		**Oral Presentations: Progressive Evaluation** PG: Técnica del tipo Presentación en Grupo Evaluación Progresiva Presencial Duración: 02:00
13		**Student's Oral Presentations (30% of the total grade)** Duración: 02:00 PR: Actividad del tipo Clase de Problemas **Student's Oral Presentations (30% of the total grade)** Duración: 02:00 PR: Actividad del tipo Clase de Problemas		

14		**Student's Oral Presentations (30% of the total grade)** Duración: 02:00 PR: Actividad del tipo Clase de Problemas **Attendance and active participation in class (as part of the progressive examination and "no recuperable") 30 hours of clases (10% of the total grade)** Duración: 00:00 OT: Otras actividades formativas / Evaluación **Written exam (as part of the progressive evaluation) 60% of the total grade** Duración: 02:00 OT: Otras actividades formativas / Evaluación		**Attendance and active participation in class (as part of the progressive examination and "no recuperable") 30 hours of clases (10% of the total grade)** PI: Técnica del tipo Presentación Individual Evaluación Progresiva Presencial Duración: 02:00 **Written exam: Progressive Evaluation** EX: Técnica del tipo Examen Escrito Evaluación Progresiva Presencial Duración: 02:00
15				
16		**Written exam (as part of the global examination) (70% of the total grade)** Duración: 02:00 OT: Otras actividades formativas / Evaluación		**Written exam (as part of the global examination)** EX: Técnica del tipo Examen Escrito Evaluación Global Presencial Duración: 02:00 **Oral presentatiom in video format or face to face: 7 minutes for delivery in 2-members groups (as part of the global examination) (20% of the total grade)** PG: Técnica del tipo Presentación en Grupo Evaluación Global No presencial Duración: 00:00
17				

Para el cálculo de los valores totales, se estima que por cada crédito ECTS el alumno dedicará dependiendo del plan de estudios, entre 26 y 27 horas de trabajo presencial y no presencial.

7. Actividades y criterios de evaluación

7.1. Actividades de evaluación de la asignatura

7.1.1. Evaluación (progresiva)

Sem.	Descripción	Modalidad	Tipo	Duración	Peso en la nota	Nota mínima	Competencias evaluadas
12	Oral Presentations: Progressive Evaluation	PG: Técnica del tipo Presentación en Grupo	Presencial	02:00	30%	5 / 10	CB04 CG01 CG03 CG04 CG05
14	Attendance and active participation in class (as part of the progressive examination and "no recuperable") 30 hours of clases (10% of the total grade)	PI: Técnica del tipo Presentación Individual	Presencial	02:00	10%	/ 10	CB04 CG07
14	Written exam: Progressive Evaluation	EX: Técnica del tipo Examen Escrito	Presencial	02:00	60%	5 / 10	CB03 CB04

7.1.2. Prueba evaluación global

Sem	Descripción	Modalidad	Tipo	Duración	Peso en la nota	Nota mínima	Competencias evaluadas
16	Written exam (as part of the global examination)	EX: Técnica del tipo Examen Escrito	Presencial	02:00	70%	5 / 10	CB03 CB04
16	Oral presentatiom in video format or face to face: 7 minutes for delivery in 2-members groups (as part of the global examination) (20% of the total grade)	PG: Técnica del tipo Presentación en Grupo	No Presencial	00:00	20%	5 / 10	CB04 CG01 CG03 CG04 CG05

7.1.3. Evaluación convocatoria extraordinaria

No se ha definido la evaluación extraordinaria.

7.2. Criterios de evaluación

Students will be assessed according to the **progressive assessment option tasks** specified below:

1. Oral Presentation in groups of 2 to 3 students (30%) - **The research idea**- Overall duration: 3 minutes for each group member.

2. Attendance and active participation in class (10%) - ***PORCENTAJE NO RECUPERABLE EN LA EVALUACIÓN GLOBAL***

3. Written exam (60%) - individual task

Should students fail any of the tasks described above, they will have the option to retake the above-mentioned tasks (with the exception of the ones marked as NO RECUPERABLE) as part of the **global assessment option,** as follows:

1. Oral Presentation in groups of 2 to 3 students (20%) - **The research idea**. **Duration: 3 minutes for each group member. Format: video recording.**

2. Written exam (70%) - individual task. The duration of the exam may vary and will be announced in the exam room by the proctors.

IMPORTANT NOTE: The final score will be the result of averaging out the sum of the marks obtained in the compulsory assignments specified above, only if they are above the minimum score specified in the assessment table (5 is the minimum grade to pass each assignment).

If a student fails only the exam and passes the assignments (oral presentation), he or she will only have to take the exam in the extraordinary call. The gardes of the assignments will be kept only during the academic course.

If a student fails the assignment (oral presentation) but passes the exam, the assignment will need to be re-submitted (but the exam will not need to be retaken). The gardes of the exam will be kept only during the academic course

The activities may vary to guarantee students engagment. Check Moodle for more details.

This information is general and may vary from one semester to another. See Moodle for details that apply to the semester you are enrolled in.

A **Power Point presentation** will be required to support the oral presentation and will need to be submitted (a specific task in Moodle will be created to this effect and timely notified to students).

Scoring rubrics for oral presentations collecting these and other important assessment criteria to be taken into account in the evaluation process will be made available on Moodle.

Please note that reading directly from notes, scripts, or slides during the oral presentation will result in a failing grade. We expect all students to engage with their audience and demonstrate a comprehensive understanding of their material.

Due to the nature of the exam questions we conserve the right not to share the exams. Students will be provided with an exam sample to be used as a mock exam for practice.

The grade of the group assignments includes a percentage (see the rubric on Moodle) of group organization and problem-solving skills. Tutors can provide advice, but will not solve any internal group problems.

Group assignments are to be submitted by the group leader, and no individual submission will be allowed.

Late submission is not accepted. Students who submit late will have to re-take the assignment.

Note that students holding a B1 certificate must present a B2 certificate in "Secretaria" and send a copy to their tutor no later than 5 working days before the written exam.

8. Recursos didácticos

8.1. Recursos didácticos de la asignatura

Nombre	Tipo	Observaciones
See Moodle	Recursos web	UPDATED INFORMATION AND RESOURCES WILL BE AVAILABLE ON MOODLE
21st Century Reading. Creative Thinking and Reading with TEDTalks.	Bibliografía	National Geographic Learning / CENGAGE Learnig
21st Century Communication. Listening, Speaking, and Critical Thinking.	Bibliografía	National Geographic Learning / CENGAGE Learnig

9. Otra información

9.1. Otra información sobre la asignatura

Communication with your tutors will be held by email and/or virtual meetings by appointment, preferably within the time slot of the official office hours (Tuesdays or Thursdays). The platforms to be used for online sessions, office hours, or any other type of meetings will be Teams and Zoom. This course strongly contributes to 2030 Agenda for Sustainable Development Goals (SDG) in the following ways:

Goal number 4. Quality education, in the sense of encouraging students lifelong learning using foreign languages; Goal number 5. Gender equality, by promoting class debates around prominent female researchers, scientists and engineers; Goal number 9. Industry, innovation and infrastructure, by encouraging students to research on technological advances that may have an impact on society; Goal number 6. Clean water and sanitation; Goal number 7. Affordable and clean energy; Goal number 8. Decent work and economic growth; Goal number 11. Sustainable cities and communities; Goal number 12. Responsible consumption and production; Goal number 13. Climate action; by encouranging students to read texts, watch videos and discuss on topics related to the mentioned goals and to think on how Computer engineering may contribute to these objectives.

As for the teaching methodology, we will follow a student-centered approach to learning in which the lecturer's role is to motivate students and facilitate their learning and overall comprehension of concepts and tasks. Student learning is assessed through both formal and informal forms of evaluation, including group projects, student and class participation. Teaching and assessment are connected, and student learning is continuously measured during teacher instruction.

Regarding teaching strategies, direct instruction will be combined with challenge-based learning and event cooperative learning at some stages. Inquiry-based learning will be the predominant teaching method. This method focuses on student investigation and hands-on learning. Students will "learn by doing" as much as possible, both in the case of writing assignments as well as when delivering oral presentations. Students will also learn from constructive feedback on their work and on the work of others, and will also get feedback from their peers.