UNIVERSIDAD POLITÉCNICA DE MADRID

ESCUELA TÉCNICA SUPERIOR DE INGENIEROS DE MINAS Y ENERGÍA

LEARNING GUIDE

LINGÜÍSTICA APLICADA A LA CIENCIA Y A LA TECNOLOGÍ

DEGREE IN MINERALURGICAL AND METALLURGICAL ENGINEERING OF RAW MATERIALS

ACADEMIC YEAR	CODE	COURSE	CREDITS	TYPE	SEMESTER
2026-27	65005001	3	6 ECTS	COMPULSORY	ANNUAL

LANGUAGE
ENGLISH

ASSIGNED CENTER
E.T.S. DE INGENIEROS DE MINAS Y ENERGÍA

ASSIGNED DEPARTMENT
LINGÜÍSTICA APLICADA A LA CIENCIA Y A LA TECNOLOGÍA

COORDINATOR
BEATRIZ CHAVES YUSTE - beatriz.chaves@upm.es

REQUIRED PREREQUISITES

REQUIRED COURSES

• LEVEL B1 IN ENGLISH LANGUAGE

• NO ENGLISH B2 LEVEL

• LEVEL B2 IN ENGLISH LANGUAGE

RECOMMENDED PRIOR KNOWLEDGE

RECOMMENDED COURSES

—

OTHER RECOMMENDATIONS

Students must accredit a B2 level of English in order to pass the course

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RESULTS

RD-1393/2007

Competences

HAB9 Saber comunicar los conocimientos y conclusiones, tanto de forma oral, escrita y gráfica, a públicos especializados y no especializados de un modo claro y sin ambigüedades. TIPO: Habilidades o destrezas

HAB10 Poseer habilidades de aprendizaje que permitan continuar estudiando a lo largo de la vida para su adecuado desarrollo profesional. TIPO: Habilidades o destrezas

HAB11 Utilizar la creatividad para resolver problemas de ingeniería. TIPO: Habilidades o destrezas

C14 Capacidad de trabajar en un entorno bilingüe (inglés-castellano). TIPO: Competencias

Learning Outcomes

RA27 Entender las ideas principales de textos complejos que traten de temas tanto concretos como abstractos, incluyendo los de carácter técnico dentro de su campo de especialización

RA29 Redactar textos claros y detallados sobre temas diversos así como defender un punto de vista sobre temas generales indicando los pros y contras de las distintas opciones

RA31 Relacionarse con hablantes nativos con un grado suficiente de fluidez y naturalidad de modo que la comunicación se realice sin esfuerzo por parte de los interlocutores

RA28 Comprender conferencias y discursos extensos así como seguir las líneas argumentales complejas, siempre que el tema sea relativamente conocido

RA32 Preparar y realizar el proceso necesario para conseguir un puesto de trabajo

DESCRIPTION

English for Professional and Academic Communication is a course designed to develop students' communicative competence in English in both academic and professional contexts. The course is taught entirely in English; therefore, all teaching activities, materials, assignments and assessment tasks will be conducted in English. Throughout the course, students will work on key skills related to written production, reading and listening comprehension, oral communication, and the preparation of professional and academic documents, following a practical and progressive approach. The course addresses essential aspects such as the use of formal language, the structure of academic and professional texts, the development of specialised vocabulary, and oral and visual presentation techniques.

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The specific objectives of the course are as follows:

- To understand and apply the main features of formal language in academic and professional contexts.
- To read, analyse and synthesise scientific and academic texts related to students' field of study.
- To write structured essays, abstracts and professional documents such as CVs and cover letters.
- To improve pronunciation, fluency and the structure of oral presentations through academic posters and collaborative presentations.
- To develop job interview skills through practical activities and simulations.

TOPICS

1. **Unit 1. Introduction to professional and academic communication in mineral processing and metallurgical engineering of raw materials**
2. **Unit 2. Understanding academic and professional texts about mineral processing and metallurgical engineering of raw materials**
3. **Unit 3. Safety, risk management and environmental sustainability in the mineral processing and metallurgical engineering of raw materials sector**
4. **Unit 4. Job interviews and professional development in the mineral processing and metallurgical engineering of raw materials sector**
5. **Unit 5. Mineral processing and metallurgical engineering of raw materials projects and oral communication**

ACTIVITIES

Assessment activity Learning activity

Introduction to professional and academic communication in mineral processing and metallurgical engineering of raw materials and diagnostic test

WEEKS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	02h 00m	Classroom (scheduled)	Normal

TOPICS
T1

METHODOLOGY
Lecture

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Specialised terminology in the mining, geological and raw materials sectors: technical descriptions. Materials classification.

WEEKS: 1 **2** 3 4 5 6 7 8 9 10 11 12 13 14 15 / 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	02h 00m	Classroom (scheduled)	Normal

TOPICS: T1

METHODOLOGY: Lecture

Specialised terminology in the mining, geological and raw materials sectors: technical descriptions

WEEKS: 1 2 **3** 4 5 6 7 8 9 10 11 12 13 14 15 / 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	02h 00m	Classroom (scheduled)	Normal

TOPICS: T1

METHODOLOGY: Lecture

Reading comprehension of technical descriptions

WEEKS: 1 2 3 **4** 5 6 7 8 9 10 11 12 13 14 15 / 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In person	02h 00m	Laboratory	Progressive	4%	5

TOPICS: T1

METHODOLOGY: Individual work

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Oral technical description of mineral processing and metallurgical processes applied to raw materials

WEEKS: 5, 6

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	04h 00m	Classroom (scheduled)	Normal

TOPICS: T1

METHODOLOGY: Cooperative activities

Oral technical description of mineral processing and metallurgical processes applied to raw materials

WEEKS: 7

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In person	02h 00m	Classroom (scheduled)	Progressive	15%	5

TOPICS: T1

METHODOLOGY: Group presentation

Reading different types of professional and academic texts

WEEKS: 8, 9, 10

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	06h 00m	Classroom (scheduled)	Normal

TOPICS: T2

METHODOLOGY: Challenge-based learning

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Scientific poster project: from research topic to oral presentation

WEEKS: 11

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	02h 00m	Classroom (scheduled)	Normal

TOPICS: T5

METHODOLOGY: Cooperative activities

Academic paragraph writing

WEEKS: 12

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In person	02h 00m	Classroom (scheduled)	Progressive	4%	5

TOPICS: T2

METHODOLOGY: Problem-solving exam

Academic abstract writing workshop

WEEKS: 13, 14

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	04h 00m	Classroom (scheduled)	Normal

TOPICS: T2

METHODOLOGY: Other activities

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Academic abstract writing

WEEKS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 **15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In person	02h 00m	Laboratory	Progressive	15%	5

TOPICS
T2

METHODOLOGY
Problem-solving exam

Development of a glossary of specialised terminology in raw materials processing

WEEKS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	02h 00m	Laboratory	Normal

TOPICS
T2

METHODOLOGY
Cooperative activities

Health and safety terminology in mining environments. Language for discussing environmental impacts of mining

WEEKS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
16 **17** 18 19 20 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	02h 00m	Classroom (scheduled)	Normal

TOPICS
T3

METHODOLOGY
Other activities

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Communicating energy transition, climate change and safety instructions

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 **18** 19 20 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In person	02h 00m	Laboratory	Progressive	4%	5

TOPICS
T3

METHODOLOGY
Problem-solving exam

Oral debate on sustainability and environmental impact in the mining, geological and raw materials sector

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 **19** 20 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	02h 00m	Classroom (scheduled)	Normal

TOPICS
T3

METHODOLOGY
Cooperative activities

Oral debate on safety conditions in the mining, geological and raw materials sector

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 **20** 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In person	02h 00m	Classroom (scheduled)	Progressive	4%	5

TOPICS
T3

METHODOLOGY
Work in group

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Content review and consolidation session

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 **21** 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	02h 00m	Classroom (scheduled)	Normal

TOPICS: T1 T2 T3

METHODOLOGY: Other activities

Mid-course assessment test

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 **22** 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In person	02h 00m	Laboratory	Progressive	10%	5

TOPICS: T1 T2 T3

METHODOLOGY: Written exam

Scientific poster project: from research topic to oral presentation

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 **23** 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	02h 00m	Classroom (scheduled)	Normal

TOPICS: T5

METHODOLOGY: Cooperative activities

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Professional documents and correspondence: CVs, cover letters and career communication

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 **24** 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	02h 00m	Classroom (scheduled)	Normal

TOPICS
T4

METHODOLOGY
Other activities

Professional document writing: CV and cover letter

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 **25** 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In person	02h 00m	Laboratory	Progressive	4%	5

TOPICS
T4

METHODOLOGY
Problem-solving exam

Professional job interview simulation

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 **26** **27** 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In person	04h 00m	Classroom (scheduled)	Progressive	15%	5

TOPICS
T4

METHODOLOGY
Group presentation

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Technical language for oral presentations and visual communication

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 **28** 29 30 E

FORMAT	TOTAL DURATION	LOCATION	GROUP
In person	02h 00m	Classroom (scheduled)	Normal

TOPICS
T5

METHODOLOGY
Other activities

Scientific poster project presentation: from research topic to oral presentation. Q &A Oral interaction.

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 **29** **30** E

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In person	05h 00m	Classroom (scheduled)	Progressive	15%	5

TOPICS
T5

METHODOLOGY
Group presentation, Individual presentation

ASSESSED OUTCOMES
HAB9, C14, RA27, RA31, RA28, RA29, RA32, HAB11, HAB10

Final-course assessment test

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 **30** E

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In-person	01h 00m	Laboratory	Progressive	10%	5

TOPICS
T4, T5

METHODOLOGY
Written exam

ASSESSED OUTCOMES
HAB10, HAB11, HAB9, C14, RA27, RA31, RA28, RA29, RA32

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Scientific poster project presentation: from research topic to oral presentation. Questions and answers oral interaction.

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In-person	02h 00m	Exam Classroom	Global, Retake (Extraordinary)	25%	5

TOPICS: T5

METHODOLOGY: Oral exam

Academic abstract writing

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In-person	02h 00m	Exam Classroom	Global, Retake (Extraordinary)	25%	5

TOPICS: T2 T1

METHODOLOGY: Written exam

Global evaluation final exam

WEEKS: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 E

FORMAT	TOTAL DURATION	LOCATION	ASSESSMENT	WEIGHT	MINIMUM GRADE
In-person	02h 00m	Exam Classroom	Global, Retake (Extraordinary)	50%	5

TOPICS: T1 T2 T3 T4 T5

METHODOLOGY: Written exam

WEEKLY SCHEDULE

Assessment activity | Learning activity | • Week with activity | E Exam period

Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	E
Introduction to professional and academic communication in mineral processing and metallurgical	•																														

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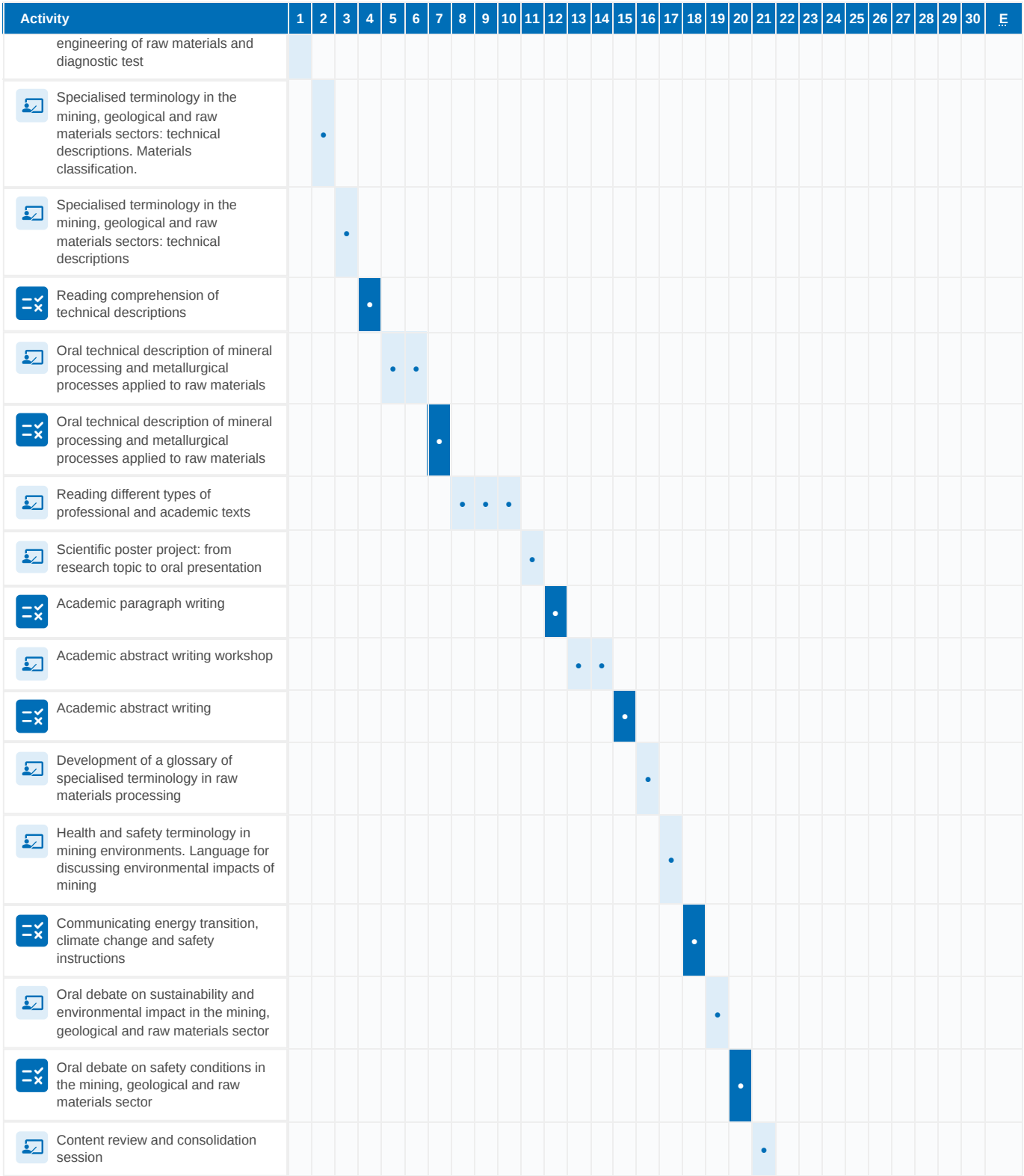

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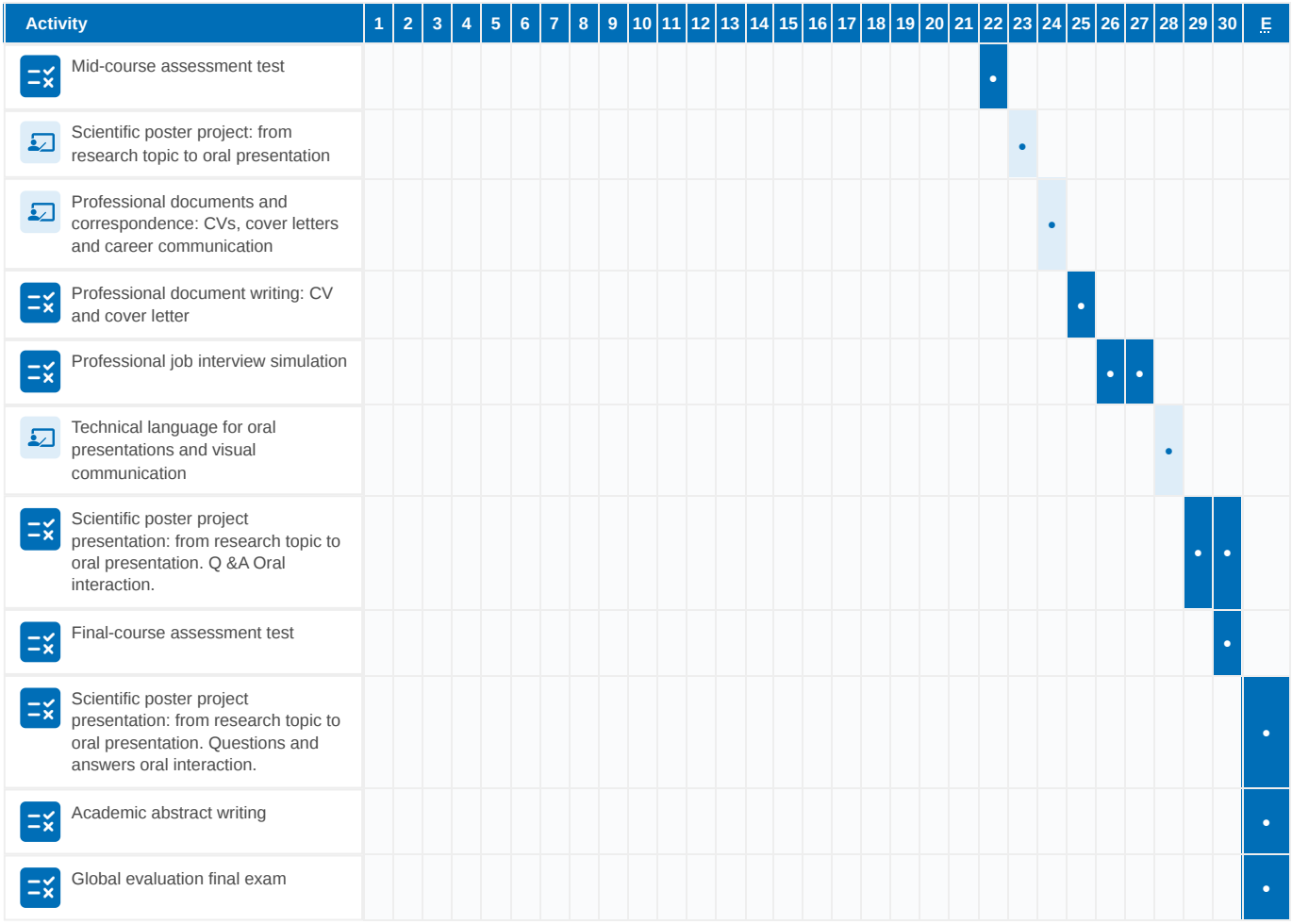

ASSESSMENT CRITERIA

General criteria

Given the highly practical nature of the course *English for Professional and Academic Communication* and the variety of communicative skills developed and assessed, regular attendance, active participation and completion of face-to-face activities are strongly recommended in order to follow the progressive assessment system adequately and to gradually achieve the intended learning outcomes.

As a general rule, students will be assessed through a **progressive assessment system**, based on the activities, case studies, assignments and tests specified in the corresponding section of the Learning Guide. In order for an activity to be included in this system, it must be completed and submitted by the deadline and in the format and conditions established by the teaching staff.

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In order to pass the course through progressive assessment, students must obtain a final mark of 5.0 out of 10 or higher, resulting from the weighted average of the activities, case studies, assignments and tests established in the Learning Guide, without prejudice to the obligation to accredit a B2 level of English under the terms established for the EPAC course.

Activities submitted after the deadline, not completed or not submitted in the required format may be awarded a mark of zero within the progressive assessment system, without prejudice to the student's right to take the global assessment test in the ordinary call or, where applicable, in the extraordinary call.

The two course assessment tests, the mid-course assessment test and the final-course assessment test, are compulsory for students following the progressive assessment system. Both tests will assess the four communicative skills, as well as the specific contents, specialised vocabulary and grammatical aspects covered during the course. Each test will account for 10% of the final mark; together, they will account for 20% of the final course mark.

Students who follow the course regularly must submit class activities by the established deadlines so that they can be corrected and included in the progressive assessment system.

Assessment by global assessment tests

The global assessment tests in the ordinary call will be intended for students who have not completed or have not passed the progressive assessment system. These tests will assess the learning outcomes that have not been assessed or have not been achieved during the teaching period, in accordance with the structure, weighting and conditions established in this Learning Guide. Students who have passed the course through progressive assessment will not be required to take the global assessment tests in the ordinary call.

The global assessment tests will consist of the following components:

1. Writing an academic abstract, based on a scientific-technical text provided by the teaching staff. This task will be completed on the same day as the written examination and will account for 25% of the final mark.
2. Global written examination, assessing the course contents and skills through tasks on grammar and use of English, technical vocabulary, reading comprehension, listening comprehension and written production. This component will account for 50% of the final mark.
3. Oral presentation of a scientific poster, based on an original scientific-technical topic or on a topic of academic/professional interest to the student. The presentation will last approximately 5-7 minutes and may be followed by a brief question-and-answer section led by the teaching staff. This component will account for 25% of the final mark.

The extraordinary call will follow the same structure, criteria and weighting as the global assessment test in the ordinary call. Accordingly, the extraordinary assessment will allow students to obtain 100% of the final course mark.

B2 level accreditation

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In accordance with the specific conditions established for EPAC, in order to pass the course students must accredit a B2 level of English according to the Common European Framework of Reference for Languages. This accreditation must be submitted at least **five working days** before the examination of the ordinary or extraordinary call, as applicable.

Students who fail to accredit the B2 level within the established deadline and in the required form will not be able to pass the course in the corresponding call. In the ordinary call, they may obtain a maximum mark of 4.0, even if they have achieved an academic mark of 5.0 or higher in the assessment activities or tests. In the extraordinary call, they will be awarded a mark of Absent.

In the case of students who have passed the progressive assessment system but have not submitted the B2 accreditation within the established deadline, the mark obtained will be retained only during the academic year in which they are enrolled.

Academic misconduct, cheating and plagiarism

Students must complete all activities, assignments, written tests and oral tests in accordance with the principles of academic integrity, good faith and honesty. Only the materials, resources or tools expressly authorised by the teaching staff may be used in each activity or assessment test.

Cheating, plagiarism, unauthorised use of artificial intelligence tools, submission of work produced by others as one's own, or any other conduct intended to falsify the results of an assessment activity or test will be considered academic misconduct. In cases of proven academic misconduct, the provisions of the UPM Assessment Regulations and current university regulations will apply. This may result in a mark of zero in the corresponding call, without prejudice to any further disciplinary responsibilities that may arise.

When the teaching staff considers it necessary to verify authorship or the actual achievement of the learning outcomes, the student may be required to complete an oral test, an individual defence or an additional written test related to the submitted work.

Assessment criteria for the regular exam period. Progressive assessment

Assessment criteria

As a general rule, students will be assessed through a progressive assessment system, based on the activities, case studies, assignments and tests specified in the corresponding section of the Learning Guide. In order for an activity to be included in this system, it must be completed and submitted by the deadline and in the format and conditions established by the teaching staff.

In order to pass the course through progressive assessment, students must obtain a final mark of 5.0 out of 10 or higher, resulting from the weighted average of the activities, case studies, assignments and tests established in the Learning Guide, without prejudice to the obligation to accredit a B2 level of English under the terms established for the EPAC course.

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Activities submitted after the deadline, not completed or not submitted in the required format may be awarded a mark of zero within the progressive assessment system, without prejudice to the student's right to take the global assessment test in the ordinary call or, where applicable, in the extraordinary call.

The two course assessment tests, the mid-course assessment test and the final-course assessment test, are compulsory for students following the progressive assessment system. Both tests will assess the four communicative skills, as well as the specific contents, specialised vocabulary and grammatical aspects covered during the course. Each test will account for 10% of the final mark; together, they will account for 20% of the final course mark.

Students who follow the course regularly must submit class activities by the established deadlines so that they can be corrected and included in the progressive assessment system.

Activities

- Reading comprehension of technical descriptions (4%)
- Oral technical description of mineral processing and metallurgical processes applied to raw materials (15%)
- Academic paragraph writing (4%)
- Academic abstract writing (15%)
- Communicating energy transition, climate change and safety instructions (4%)
- Oral debate on safety conditions in the mining, geological and raw materials sector (4%)
- Mid-course assessment test (10%)
- Professional document writing: CV and cover letter (4%)
- Professional job interview simulation (15%)
- Scientific poster project presentation: from research topic to oral presentation. Q &A Oral interaction. (15%)
- Final-course assessment test (10%)

Assessment criteria for the regular exam period. Global assessment

Assessment criteria

The global assessment tests in the ordinary call will be intended for students who have not completed or have not passed the progressive assessment system. These tests will assess the learning outcomes that have not been assessed or have not been achieved during the teaching period, in accordance with the structure, weighting and conditions established in this Learning Guide. Students who have passed the course through progressive assessment will not be required to take the global assessment tests in the ordinary call.

The global assessment tests will consist of the following components:

1. Writing an academic abstract, based on a scientific-technical text provided by the teaching staff. This task will be completed on the same day as the written examination and will account for 25% of the final mark.
2. Global written examination, assessing the course contents and skills through tasks on grammar and use of English, technical vocabulary, reading comprehension, listening comprehension and written production. This

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component will account for 50% of the final mark.

3. Oral presentation of a scientific poster, based on an original scientific-technical topic or on a topic of academic/professional interest to the student. The presentation will last approximately 5-7 minutes and may be followed by a brief question-and-answer section led by the teaching staff. This component will account for 25% of the final mark.

Activities

- Scientific poster project presentation: from research topic to oral presentation. Questions and answers oral interaction. (25%)
- Academic abstract writing (25%)
- Global evaluation final exam (50%)

Assessment criteria for the retake (extraordinary) exam period

Assessment criteria

The extraordinary call will follow the same structure, criteria and weighting as the global assessment test in the ordinary call. Accordingly, the extraordinary assessment will allow students to obtain 100% of the final course mark.

Activities

- Scientific poster project presentation: from research topic to oral presentation. Questions and answers oral interaction. (25%)
- Academic abstract writing (25%)
- Global evaluation final exam (50%)

RESOURCES

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SUSTAINABLE DEVELOPMENT GOALS

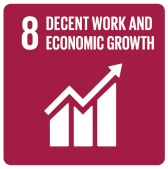
Good Health and Well-being

Quality Education

Gender Equality

Clean Water and Sanitation

Affordable and Clean Energy



Decent Work and Economic Growth

Industry, Innovation and Infrastructure

Reduced Inequalities

Sustainable Cities and Communities

Responsible Consumption and Production

Climate Action

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