



INTERNATIONAL
CAMPUS OF
EXCELLENCE

COORDINATION PROCESS OF
LEARNING ACTIVITIES
PR/CL/001



E.T.S. de Ingenieros de Minas y
Energía

ANX-PR/CL/001-01

LEARNING GUIDE

SUBJECT

63000261 - Writing A Scientific Paper

DEGREE PROGRAMME

06CA - Master Universitario En Contaminación De Suelos Y Aguas Subterráneas

ACADEMIC YEAR & SEMESTER

2024/25 - Semester 2

Index

Learning guide

1. Description.....	1
2. Faculty.....	1
3. Prior knowledge recommended to take the subject.....	2
4. Skills and learning outcomes	2
5. Brief description of the subject and syllabus.....	3
6. Schedule.....	5
7. Activities and assessment criteria.....	7
8. Teaching resources.....	8
9. Other information.....	9

1. Description

1.1. Subject details

Name of the subject	63000261 - Writing a Scientific Paper
No of credits	4 ECTS
Type	Optional
Academic year of the programme	First year
Semester of tuition	Semester 2
Tuition period	February-June
Tuition languages	English
Degree programme	06CA - Master Universitario en Contaminación de Suelos y Aguas Subterráneas
Centre	06 - Escuela Técnica Superior De Ingenieros De Minas Y Energía
Academic year	2024-25

2. Faculty

2.1. Faculty members with subject teaching role

Name and surname	Office/Room	Email	Tutoring hours *
Jose Laureano Canoyra Lopez	438	laureano.canoira.lopez@upm.es	M - 12:00 - 14:00 Th - 12:00 - 14:00 Please request in advance by email
Miguel Izquierdo Diaz (Subject coordinator)	423	miguel.izquierdo@upm.es	M - 15:00 - 18:00 Th - 15:00 - 18:00 Please request in advance by email

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

member in charge.

3. Prior knowledge recommended to take the subject

3.1. Recommended (passed) subjects

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

3.2. Other recommended learning outcomes

- A good knowledge of English is recommended.

4. Skills and learning outcomes *

4.1. Skills to be learned

CB09 - Que los estudiantes sepan comunicar sus conclusiones y los conocimientos y razones últimas que las sustentan a públicos especializados y no especializados de un modo claro y sin ambigüedades

CT07 - Redactar memorias, informes y artículos científicos y técnicos

CT08 - Utilizar la lengua inglesa para la comunicación oral y escrita a nivel avanzado en entornos académicos y profesionales

4.2. Learning outcomes

RA8 - To learn writing a scientific paper

RA9 - To handle scientific and technical literature

* 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.

5. Brief description of the subject and syllabus

5.1. Brief description of the subject

This subject aims to prepare the students to handle scientific literature resources and to write a research paper, including the process of submission to a scientific journal.

5.2. Syllabus

1. Research Paper

- 1.1. Communication and Diffusion of Scientific Results.
- 1.2. Academic and Research Career.

2. Literature Review

- 2.1. Bibliographic Databases.
- 2.2. References Manager Software.

3. Structure of a Research Paper

- 3.1. Introduction.
- 3.2. Materials & Methods.
- 3.3. Results & Discussion.
- 3.4. Conclusions.
- 3.5. Abstract, Keywords and References.

4. Publication Process

- 4.1. Editorials & Journals.
- 4.2. Submission & Author Guidelines.

4.3. Peer Review.

5. Bibliometric & Quality Scientific Indicators

5.1. Journals Impact Metrics.

5.2. Researcher Impact Metrics.

6. Tips for Effective Research Writing

7. Research and Publication Ethics

6. Schedule

6.1. Subject schedule*

Week	Type 1 activities	Type 2 activities	Distant / On-line	Assessment activities
1	1 Research Paper Duration: 03:00 Lecture	Research Paper Topics Duration: 01:00 Cooperative activities		
2	2 Literature Review Duration: 03:00 Lecture	Literature Search in Databases & Mendeley Reference Manager Duration: 01:00 Laboratory assignments		
3	3 Structure of a Research Paper Duration: 03:00 Lecture	Writing guidance: Introduction Duration: 01:00 Additional activities		
4	4 Publication process Duration: 03:00 Lecture	Writing guidance: Materials & Methods Duration: 01:00 Additional activities		#1 Draft Paper: Introduction Individual work Progressive assessment Not Presential Duration: 06:00
5	5 Bibliometric & Quality Scientific Indicators Duration: 03:00 Lecture	Writing guidance: Results & Discussion Duration: 01:00 Additional activities		#2 Draft Paper: Materials & Methods Individual work Progressive assessment Not Presential Duration: 06:00
6	6 Tips for Effective Research Writing Duration: 03:00 Lecture	Writing guidance: Conclusions, Abstract & References Duration: 01:00 Additional activities		#3 Draft Paper: Results & Discussion Individual work Progressive assessment Not Presential Duration: 06:00
7	7 Research and Publication Ethics Duration: 03:00 Lecture	Webinar: Elements of style Duration: 01:00 Additional activities		#4 Draft Paper: Conclusions Individual work Progressive assessment Not Presential Duration: 06:00
8		Webinar: ELSEVIER Duration: 02:00 Additional activities Webinar: University of Exeter Duration: 02:00 Additional activities		
9		Final Paper Manuscript presentation Duration: 04:00 Additional activities		Final Paper Manuscript Individual work Progressive assessment and Global Examination Not Presential Duration: 16:00 Global examination Written test Global examination Presential Duration: 02:00

10				
11				
12				
13				
14				
15				
16				
17				

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.

7. Activities and assessment criteria

7.1. Assessment activities

7.1.1. Assessment

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
4	#1 Draft Paper: Introduction	Individual work	No Presential	06:00	10%	0 / 10	CT08 CB09 CT07
5	#2 Draft Paper: Materials & Methods	Individual work	No Presential	06:00	10%	0 / 10	CT08 CB09 CT07
6	#3 Draft Paper: Results & Discussion	Individual work	No Presential	06:00	10%	0 / 10	CB09 CT07 CT08
7	#4 Draft Paper: Conclusions	Individual work	No Presential	06:00	10%	0 / 10	CT08 CB09 CT07
9	Final Paper Manuscript	Individual work	No Presential	16:00	60%	5 / 10	CT08 CB09 CT07

7.1.2. Global examination

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
9	Final Paper Manuscript	Individual work	No Presential	16:00	60%	5 / 10	CT08 CB09 CT07
9	Global examination	Written test	Face-to-face	02:00	40%	5 / 10	CT08 CB09 CT07

7.1.3. Referred (re-sit) examination

Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
-------------	----------	------	----------	--------	---------------	------------------

Global examination	Written test	Face-to-face	02:00	40%	5 / 10	CB09 CT08 CT07
Final Paper Manuscript	Individual work	Face-to-face	16:00	60%	5 / 10	CT08 CB09 CT07

7.2. Assessment criteria

In order to pass the course, it is compulsory to write a scientific paper. Students can be evaluated:

- Progressively: 4 partial deliveries (10 % each) + final manuscript (60 %).
- In the global and extraordinary evaluation: written exam (40 %) + final manuscript (60 %).

8. Teaching resources

8.1. Teaching resources for the subject

Name	Type	Notes
Presentations	Web resource	Moodle
Scientific papers and guidelines	Bibliography	Moodle

9. Other information

9.1. Other information about the subject

The subject is related to SDG4 (Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all).