

Hydrogeology

Code: 101066
ECTS Credits: 6

2025/2026

Degree	Type	Year
Geology	OT	3
Geology	OT	4

Contact

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Teachers

Joan Estalrich Lopez

Teaching groups languages

You can view this information at the [end](#) of this document.

Prerequisites

No previous courses needed

Objectives and Contextualisation

Understanding the components of the water cycle

Competences

- Geology
- Process, interpret and present field data using qualitative and quantitative techniques, and suitable computer programmes.
- Process, interpret and present laboratory data using qualitative and quantitative techniques, and suitable computer programmes.

Learning Outcomes

1. Evaluate and process laboratory data corresponding to environmental issues.
2. Identify and process the value and the sources of field data with environmental implications.

3. Interpret relief dynamics on different time-space scales in terms of risk and land-use planning.
4. Synthesise and select field data and process it qualitatively and quantitatively using different computer programmes.

Content

- The natural cycle of water
- Precipitation
- Runoff
- Hydrographs
- Infiltration
- Evapotranspiration
- Water in the subsoil
- Darcy's Law
- Water quality

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Field work	7	0.28	2, 1, 4
Practicum	20	0.8	2, 1, 4
Theory	24	0.96	2, 1, 4
Type: Supervised			
Tutorials	6	0.24	2, 1, 4
Type: Autonomous			
Personal work	81	3.24	2, 1, 4

Lectures a practical case work

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continuous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Field work	5%	3	0.12	3, 4
Pop quiz	35% of final degree	3	0.12	1, 3
2 mid-term exams	Each exam 30% of final evaluation	6	0.24	2, 1, 3, 4

Total final exam for students with a normal course fail grade.

Bibliography

Same as in catalan version

Software

No one

Groups and Languages

Please note that this information is provisional until 30 November 2025. You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject.

Name	Group	Language	Semester	Turn
(PCAM) Field practices	1	Catalan	first semester	morning-mixed
(PLAB) Practical laboratories	1	Catalan	first semester	morning-mixed
(TE) Theory	1	Catalan	first semester	morning-mixed