

## General information

On-campus learning

Schedule: 09:00 - 15:00 h

Places available: 25

Course length: 18 months

Credits: 90 ECTS

Approximate Fees: 26/36\* €/credit

Language of instruction: Spanish

Location: Faculty of Geology

\*EHEA & selected countries/non-EHEA applicants (check website)

## Entry requirements

Official degree in Spain or in any higher education institution of a member state of the European Union or of a third country entitling to access Master studies

Access profile: Geology, Geological Engineering, Mining Engineering, Civil Urban Engineering, Civil Engineering, Environmental Sciences, Marine Science or Geography.



## Career opportunities

Access to PhD programmes

Education

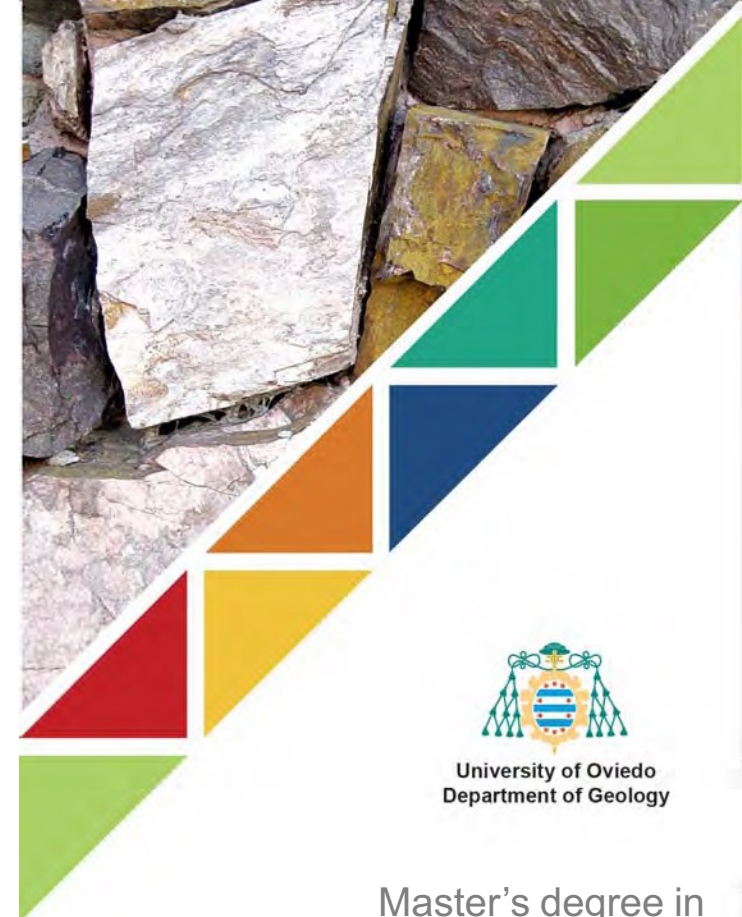
Professional fields: infrastructures, exploration and production of geological resources, environmental field, geological hazards, development cooperation, etc.

## Pre-registration and registration

Pre-registration period: 1 March - 9 June 2022

Registration: 4-31 August 2022

<https://cei.uniovi.es/postgrado/masteres/preinscripcionymatricula>



University of Oviedo  
Department of Geology

## Master's degree in GEOLOGICAL RESOURCES & ENGINEERING GEOLOGY

<https://geologia.uniovi.es/infoacademica/murgig>

[master@geol.uniovi.es](mailto:master@geol.uniovi.es)

+34 985103146



2022/2023

<b>METHODOLOGY MODULE</b>	⇒ Methods in Geology (9 ECTS)	<ul style="list-style-type: none"> <li>● Multidisciplinary Fieldwork</li> <li>● Digital Mapping and Geographic Information Systems</li> <li>● Quality Control, Documentation, Implementation and Legislation in Geology</li> </ul>	<b>INTERNSHIP (6 ECTS)</b>
	⇒ Foundations of Geological Resources (15 ECTS)	<ul style="list-style-type: none"> <li>● Applied Geophysics</li> <li>● Water Geochemistry</li> <li>● Modelling of Ore Resources</li> <li>● Geomorphological indicators: Use and Applications</li> <li>● Tectonics–Sedimentation Relationships</li> </ul>	
<b>COMPULSORY MODULE</b>	⇒ Geological Engineering (15 ECTS)	<ul style="list-style-type: none"> <li>● Geology Applied to Civil Engineering</li> <li>● Engineering Geology in Underground Civil Works</li> <li>● Engineering Geology in Surface Civil Works</li> <li>● Soil and Rock Mechanics</li> <li>● Engineering Geology in Building</li> </ul>	<b>MASTER'S THESIS (18 ECTS)</b>
	⇒ Geological Hazards and Dynamics of the Relief (12 ECTS)	<ul style="list-style-type: none"> <li>● Dynamics and Sedimentation Applied to Coastal Management</li> <li>● Applied Geomorphology and Soils</li> <li>● Seismic and Volcanic Hazards</li> <li>● External Geological Hazards</li> </ul>	
<b>OPTIONAL MODULES</b>	⇒ Fossil Fuels* (12 ECTS) <small>*a minimum enrollment of 5 students is required for this module to be taught On the process of adaptation to the energy transition</small>	<ul style="list-style-type: none"> <li>● Geology of Coal and Petroleum</li> <li>● Sedimentary Systems and Reservoirs</li> <li>● Applied Micropalaeontology (practical subject)</li> <li>● Structural Studies in Hydrocarbon Exploration</li> </ul>	<b>Master 90 ECTS</b> = <b>Methodology Mod.</b> + <b>Compulsory Mod.</b> + <b>27 ECTS Optional Modules</b> + <b>Internship</b> + <b>Master's Thesis</b>
	⇒ Subsurface Structure and Geophysics (12 ECTS)	<ul style="list-style-type: none"> <li>● Analysis of Folding</li> <li>● Microtectonics</li> <li>● Construction and Validation of Structural Interpretations</li> <li>● Structural Discontinuities</li> </ul>	
	⇒ Ore Characterization and Exploration (12 ECTS)	<ul style="list-style-type: none"> <li>● Ore Characterization Techniques</li> <li>● Geological Survey Applied to Mining</li> <li>● Ornamental Rocks: Durability and Conservation</li> <li>● Applied Petrogenesis</li> </ul>	
	⇒ Water and Environment (12 ECTS)	<ul style="list-style-type: none"> <li>● Deep Geological Storage and Environmental Impact Assessment</li> <li>● Climate Change</li> <li>● Applied Hydrogeology</li> <li>● Mineralogy and Applied Geochemistry and Environmental Mineralogy</li> </ul>	