Bachelor's degree in Mineral Resource Engineering and Mineral Recycling

By taking the bachelor’s degree in Mineral Resource Engineering and Mineral Recycling (formerly the bachelor's degree in Mining Engineering), you will acquire the competencies needed for professional practice as a technical mining engineer, particularly skills related to sustainability and the circular economy. The knowledge you will acquire will allow you to practise in a wide range of fields, such as the use of natural resources, civil works, applied geology, spatial planning and environmental management.

GENERAL DETAILS

Duration
4 years

Study load
240 ECTS credits (including the bachelor's thesis). One credit is equivalent to a study load of 25-30 hours.

Delivery
Face-to-face

Language of instruction
Check the language of instruction for each subject (and timetable) in the course guide in the curriculum.

Information on language use in the classroom and students’ language rights.

Fees and grants
Approximate fees per academic year: €1,660 (€2,490 for non-EU residents). Consult the public fees system based on income (grants and payment options).

Location
Manresa School of Engineering (EPSEM)

ADMISSION

Places
40

Registration and enrolment
What are the requirements to enrol in a bachelor's degree course?

Legalisation of foreign documents
All documents issued in non-EU countries must be legalised and bear the corresponding apostille.

PROFESSIONAL OPPORTUNITIES

Professional opportunities
- Supervision of underground and open-cast mining activities. Management of work teams and machinery.
- Management of land restoration.
- Supervision in waste treatment plants.
- Supervision in aggregate treatment plants and cement, concrete and ornamental and industrial rock manufacturing plants.
- Groundwater management
- Blast design in mines and civil works.
- Quality control and characterisation tests of pyrotechnic materials
- Supervision in public and private works (roads, dams, buildings).
- Management of environmental impact studies.
- Management of work teams in surveying and preparation of surface and underground surveys.
- Writing and analysis of geotechnical reports.
- Technical work in spatial planning and management.
- Technical work in occupational safety.
- Technical work in organisation and quality control.
- Technical work in areas of public administration related to the profession.
- Teaching at secondary schools and universities.
- Research for R&D projects.

### ORGANISATION: ACADEMIC CALENDAR AND REGULATIONS

#### Academic calendar
General academic calendar for bachelor’s, master’s and doctoral degrees courses

#### Academic regulations
Academic regulations for bachelor’s degree courses at the UPC

#### Language certification and credit recognition
Queries about language courses and certification

Manresa School of Engineering (EPSEM)

### CURRICULUM

<table>
<thead>
<tr>
<th>Subjects</th>
<th>ECTS credits</th>
<th>Type</th>
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<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td></td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>Environmental Technologies and Sustainability</td>
<td>6</td>
<td>Compulsory</td>
</tr>
<tr>
<td>Introduction to Computing</td>
<td>6</td>
<td>Compulsory</td>
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<tr>
<td>Mathematics I</td>
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<td>Compulsory</td>
</tr>
<tr>
<td>Physics I</td>
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<tr>
<td><strong>SECOND SEMESTER</strong></td>
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<tr>
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<td>Statistics</td>
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</table>

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