

26426 - Projects and Legislation in Geology

Syllabus Information

Academic Year: 2020/21

Subject: 26426 - Projects and Legislation in Geology

Faculty / School: 100 - Facultad de Ciencias

Degree: 296 - Degree in Geology
588 - Degree in Geology

ECTS: 6.0

Year: 4

Semester: Second semester

Subject Type: Compulsory

Module: ---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures, practice sessions.

4.2.Learning tasks

This course is organized as follows:

- **Participatory lectures** (2 ECTS). 24 sessions. Learning the usual procedures applied to the development and implementation of projects on different fields of geology. Learning legislation related to Geology. Competencies that students will develop:
 - Knowing procedures for developing projects, reports and studies on various aspects of Applied Geology
 - Understanding and interpreting legislation related to different areas of Geology
 - Writing, planning and scheduling a project
 - Knowing the civil responsibility in the development of professional activity. Develop skills and strategies work in situations of legal conflict
- **Practice sessions** (1.9 ECTS). 12 sessions. Taking into account the applicable laws and regulations, the student will work on different case-studies related to various aspects of the projects (data processing, drawing conclusions,

feasibility of a recommendation, administrative procedures, documentation, activities, etc.). Competencies that students will develop:

- Develop projects, reports and studies on various aspects of Applied Geology
- Knowing tools for project monitoring
- Manage projects of geological nature and Geological advise on other projects
- **Design of a project** (2.1 ECTS). Students must design a project by means of individual work and study, case studies, tutorials and specific seminars. The project must be orally presented to teachers and students. Competencies that students will develop:
 - Gathering information from various sources and analyze it critically
 - Developing projects, studies and reports
 - Correctly writing technical documents
 - Writing and oral presentation of essays

Teaching and assessment activities will be carried out on site for as long and as much as possible. This scenario could change if safety regulations related to the covid19 crisis recommended online activities.

4.3.Syllabus

This course will address the following topics:

Theory sessions

- Topic 1: Introduction and evaluation criteria
- Topic 2: Development of the professional activity of geologists
- Topic 3: Types of projects in Geology
- Topic 4: Spanish legislative framework: Relevant laws and legal and administrative procedures.
- Topic 5: Mining legislation: The Law 22/1973 and its regulation (RD 2857/1978)
- Topic 6: Mining legislation: .The RD 975/2009 and the Law 21/2013 on environmental assessment
- Topic 7: Legislation on Water and Shores.
- Topic 8: Legislation on Mines, Water and Shores for continuous evaluation
- Topic 9: Budgets and offers
- Topic 10: Legislation on natural heritage and environment. Environmental Impact Assessment.
- Topic 11: Cultural heritage legislation
- Topic 12: Prevention of occupational hazards. Social Security
- Topic 13: Quality, norms and certification I
- Topic 14: Quality, norms and certification II
- Topic 15: Building codes and regulations (CTE, EHE, NSRE...) I
- Topic 16: Building codes and regulations (CTE, EHE, NSRE...) II
- Topic 17: Standardization in materials and geological resources
- Topic 18: Profession: Historical development. Visa and professional association of geologists
- Topic 19: Legal experts and civil liability in geological projects. The geologist as expertise
- Topic 20: The independent Professional and as an autonomous worker. Conflicts and civil liability
- Topic 21: Request forms: Examples for authorizations of mining activities
- Topic 22: Development of Projects: Mining research Projects
- Topic 23: Development of Projects: Restoration plans
- Topic 24: Development of Projects: Environmental documents

Practice sessions

- Session 1: Preparation of Projects I: Contents and index
- Session 2: Preparation of Projects II: Searching for information in official webs and books
- Session 3: Preparation of Projects III: Writing the Projects
- Session 4: Spanish legislative framework and Natural heritage legislation
- Session 5: Cultural heritage legislation
- Session 6: Quality management, norms and certification
- Session 7: Building codes and regulations
- Session 8: Standardization in materials and geological resources
- Session 9: Legal expertise and civil liability in geological projects.
- Session 10: Preparation of Projects IV

- Session 11: Preparation of Projects V
- Session 12: Preparation of Projects VI

4.4.Course planning and calendar

Lectures will be held on Tuesdays and Wednesdays from 9:00 to 10:00 throughout the second semester.

Practice sessions will be held on Wednesdays: group I) from 15:00 to 18:00; group II) from 18:00 to 21:00.

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the Faculty of Sciences and Earth Sciences Department websites (<https://ciencias.unizar.es>, <https://cienciatierra.unizar.es>) and Moodle.

4.5.Bibliography and recommended resources

http://biblos.unizar.es/br/br_citas.php?codigo=26426&year=2020