

Syllabus Information

Academic Year: 2021/22

Subject: 63236 -

Faculty / School: 107 - Facultad de Educación

Degree: 584 -

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ECTS: 6.0

Year: 1

Semester: Second semester

Subject Type: Optional

Module:

1. General information

2. Learning goals

2.2. Learning goals

- Explains and clearly relates fundamental concepts, models and theories of Geology.
- It is competent of analyzing and synthesizing information on topics related to Geology, and of exposing and defending in public presentations with this information.
- It is competent of integrating the social and technological dimension of geology, understanding the advantages and problems that its development poses to the natural environment, to the human being and to society.
- It is competent to transmit basic geological knowledge fluently to middle school students

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.3. Syllabus

- 1- Foundations of Geology. Basic disciplines. Principles of Geology. The work of the geologist. Geological time.
- 2- Fundamental Types of Rocks. The geological cycle. Most common sedimentary, volcanic, plutonic and metamorphic

rocks. How to recognize them visu.

3- History of Geology. How geological knowledge evolved. Steno, Hutton, Lyell, Darwin. History of Geology in Spain, from Lucas Mallada to Hernández Pacheco

4- Plate tectonics: The theory that explains the terrestrial dynamics (internal geodynamics). Internal structure of the Earth. Paleomagnetism.

5- Main geological events in the history of the earth. The Cretaceous-Tertiary boundary. Palaeogeography.

6- Fossils. Types of conservation of organisms. Basic concepts of Taphonomy. The Dinosaurs of Aragon.

7- Main evolutionary milestones in the history of life on Earth. The origin of life. The Cambrian Explosion. The Conquest of the Earth.

8- Quaternary Geology. Climate and geomorphology. Processes that shape the terrestrial landscape. Quaternary glaciations. Climate change.

9- Human evolution. The first Europeans and the deposits of the Sierra de Atapuerca.