

SOIL AND GEODIVERSITY MANAGEMENT

Responsible professor: **ÁNGEL SANCHEZ BELLON**

Credits: **5,0 ECTS**

Detailed programme:

| LEARNING BLOCK | TOPIC OR ACTIVITY |
|----------------|---|
| B1 | Introduction to soil management. <i>Example of the categorical assessment of soil in a practical session.</i> |
| B2 | Definition of geodiversity. Study and dissemination methods. Soil assessment. <i>Example of the parametric assessment of soil in a practical session.</i> |
| B3 | |
| B4 | Concepts, functions and services of the geological heritage. Geological heritage protection. Geoparks. |
| B5 | Soil conditions in Europe and main challenges. |
| B6 | Management of stratigraphical and tectonic heritage. |
| B7 | Soil in the context of climate change. |
| B8 | Benefits of soil as an atmospheric carbon sink. Case study. Estimation of carbon stock. |
| B9 | Soil management: desertification and geodiversity. |
| B10 | Active erosion processes in semiarid environments: analysis and assessment. |
| B11 | Management of the mineralogical and petrological heritage. Management of the palaeontological and archaeological heritage. |
| B12 | “Urban geotourism and tourist usage of geological heritage in cities.” |
| B13 | Geological points of interest. Geology-biology relation in the management of natural areas. Geoecology. |
| B14 | Management of the geomorphological heritage. Case study: attributes/landscape impacts matrix. |
| B15 | Geodiversity management: practical exercise. |
| B16 | Seminar related to field trip. |
| B17 | Field trip to the natural park “Sierra de Aracena y los Picos de Aroche”. |
| B18 | Field trip to study the soil in the metropolitan park “Los Toruños”. |

Evaluation system:

| | SYSTEM | WEIGHT |
|---|----------------------|---------|
| | Written or oral exam | 50 – 80 |
| Attendance and usage of on-site formative activities | | 0 – 20 |
| | Written essays | 5 – 20 |
| Presentation of exercises, topics and projects | | 0 – 20 |
| Attendance and participation in practical activities | | 0 – 20 |
| Virtual campus graded activities (Online) | | 0 – 20 |
| Other systems approved by the teaching coordination team for this subject, with approval from the Master academic committee | | 0 – 50 |