VNIVERSITAT DE VALÈNCIA

Course Guide
44306 Projects and independent work in palaeontology

COURSE DATA

Data Subject	
Code	44306
Name	Projects and independent work in palaeontology
Cycle	Master's degree
ECTS Credits	3.0
Academic year	2024 - 2025

Study (s)

Degree	Center	Acad. year	Period
2200 - Master's Degree in Applied Palaeontology	Faculty of Biological Sciences	1	Second term

Subject-matter

Degree	Subject-matter	Character
2200 - Master's Degree in Applied Palaeontology	5 - Management of palaeontological heritage	Optional

Coordination

Name	Department
MARTINEZ PEREZ, CARLOS	356 - Botany and Geology

SUMMARY

Once the Master is finished, the student who chooses the professional branch of this Master should be able to generate a series of documents of an eminently technical nature that allowed him to develop his professional work. These documents include those corresponding to environmental impact studies, projects of all kinds (paleontological actions, dissemination projects, etc.), which makes it necessary for you to know in detail what a project, report, and be able to organize and develop it from the initial stages to the final stages, for example before companies or public administration.

On the other hand, the student must be able to establish adequate knowledge of the professional reality in the fiscal, tax and Social Security aspects. This should allow you to develop in a context of competence and adequate knowledge of the requirements that as a professional worker you will have in front of the Public Treasury (taxes, periodic reports, etc.) and the Spanish Social Security administration.

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

There are no enrolment restrictions with other subjects in the curriculum.

COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

2200 - Master's Degree in Applied Palaeontology

- Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.
- Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.
- Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.
- Students should demonstrate self-directed learning skills for continued academic growth.
- Be able to access to information tools in other areas of knowledge and use them properly.
- Be able to communicate and disseminate scientific ideas.
- Ser capaces de trabajar en equipo con eficiencia en su labor profesional o investigadora, adquiriendo la capacidad de participar en proyectos de investigación y colaboraciones científicas o tecnológicas
- Ser capaces de realizar una toma rápida y eficaz de decisiones en situaciones complejas de su labor profesional o investigadora, mediante el desarrollo de nuevas e innovadoras metodologías de trabajo adaptadas al ámbito científico/investigador, tecnológico o profesional en el que se desarrolle su actividad.
- Ser capaces de acceder a la información necesaria en el ámbito específico de la materia (bases de datos, artículos científicos, etc.) y tener suficiente criterio para su interpretación y empleo.
- Aplicar el razonamiento crítico y la argumentación desde criterios racionales.
- Aplicar la Ciencia desde la óptica social y económica, potenciando la transferencia del conocimiento a la Sociedad.
- Capacidad para preparar, redactar y exponer en público informes y proyectos de forma clara y coherente, defenderlos con rigor y tolerancia y responder satisfactoriamente a las críticas que pudieren derivarse de su exposición.
- Proyectar la inquietud intelectual y fomentar la responsabilidad del propio aprendizaje.

- Asumir el compromiso ético y la sensibilidad hacia los problemas medioambientales, hacia el patrimonio natural y cultural.

LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)

In this subject, students will learn about the projects and documents they contain, the intervention projects in the natural environment, details about the environmental impact legislation and the content of this type of studies and the heritage impact reports. As a complement to a better knowledge of the professional reality, the students will know the different options for professional opportunities, with special emphasis on the conservation and management of paleontological heritage, its dissemination as potential professional opportunities, as well as the research career as a professional opportunity.

DESCRIPTION OF CONTENTS

1. Introduction and general concepts

Unit 1.- Introduction to the concepts of Prospecting vs paleontological excavation: administrative aspects
Unit 2.- Elaboration of a paleontological prospecting / excavation request report

2. Legislative framework and protection of paleontological values

Unit 3.- The professional development of Paleontology. Regulatory framework at the level of the Spanish State. Professional competences of biologists and geologists in relation to the field of activity of paleontology. Functions performed by the members.
Unit 4.- Competences in the field of Paleontology at the different levels of the Spanish public administration (local, autonomous, state). Public administration of the Valencian Community-competences in Paleontology. Areas of work in the public administration and as free professionals. Competency areas in Cultural Heritage and Natural Heritage. Brief notions on legislation of Historical Heritage (P. Cultural) and Natural Heritage (Geodiversity).
Unit 5.- Preparation and management of projects. Methodologies.
Unit 6.- Environmental impact. Documents and projects: Environmental impact studies (EIA), Patrimonial incidence reports, Territorial planning instruments. Monitoring of actions in the natural environment.
Unit 7.- Paleontological actions. Direction of actions. Regulation at the regional level (CV), inventory of deposits.

3. Practical module

Unit 6.- Examples of Actions to enhance the paleontological heritage
Unit 7.- Procedures for Environmental Impact Assessment and paleontological heritage.
Unit 8.- Preparation of a paleontological report.
Unit 9.- Elaboration of a memory of patrimonial incidence in an area of the natural environment.

4. Block 4. Seminars-Conferences

Seminar 1.- Conference on professional competences of the paleontologist profession. The case of the paleontology-based company Transmitting Science.
Seminar 2.- Conference on professional competences of the paleontologist profession. The case of the paleontological-based company Paleoymas SLL.

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	12,00	100
Classroom practices	10,00	100
Seminars	8,00	100
TOTAL	30,00	

TEACHING METHODOLOGY

• **Theoretical-practical classes:**

- Master classes with computer presentations

- Face-to-face personal work on practical cases

- Drafting of reports with the teacher's guidance on practical cases

- Exhibition and public defense of the work carried out individually and in groups

- Controls

• **Laboratory-cabinet practical classes:**

- Introduction and planning of each practice

- Making observations, data collection, information gathering

- Assessable individualized work:

• Preparation and consultation of databases with the teacher's guidance

• Preparation of reports

• **Seminars:**

-Attendance at conferences and theoretical-practical seminars of specialists that complement the training received in other subjects

- Preparation of various materials and documents in theoretical-practical activities

- Assessable individualized work:

• Preparation of reports on exposed content

• Preparation of reports

EVALUATION

The evaluation of the theoretical and practical aspects of the subject will be carried out through written tests, individually or in groups, throughout the semester for the continuous evaluation of the technical competences of the subject, in which questions of a theoretical nature will be asked. and related to practical assumptions. In the continuous evaluation, the attendance and use of the classes will also be taken into account. This evaluation will be complemented with the final written test, individually, of the subject.

The seminars will be valued according to the attendance and participation of the student in the discussion. From the seminars carried out, the student will prepare a report in which they show their ability to synthesize and interrelate the concepts discussed.

The work of the laboratory-cabinet practices will be evaluated by means of the qualification of a Report carried out individually, or in very small groups, dealing with the application of a practical case.

The weight (percentage of the final grade) of the aspects considered in the evaluation of the subject are reflected in the following table:

Evaluation Activities

Practical work and reports 60%

Laboratory-cabinet practices 15%

Continuous evaluation 25%

REFERENCES

Basic

- Carcavilla, L., López, J., Durán, J. 2007. Patrimonio geológico y geodiversidad: Investigación, conservación, gestión y relación con los espacios naturales protegidos Publicaciones del Instituto Geológico y Minero de España. Serie Cuadernos del Museo Geominero,7: 360 pp.
- Lock, D. Fundamentos en la gestión de proyectos. Ediciones AENOR. Madrid 2003.
- Pereña, J. Dirección y gestión de proyectos. Editorial Díaz de Santos 1996.
- Viñoles, R. Programación y Control de Proyectos con Microsoft Project. UPV Servicio de Publicaciones. Valencia 2009.

Additional

- Bruschi, V.M. 2007. Desarrollo de una metodología para la caracterización, evaluación y gestión de los recursos de la geodiversidad. Tesis doctoral. Universidad de Cantabria.
- Robles, F., de Renzi, M., Montoya, P. y Belinchón, M. 1999. La paleontología y la Ley del Patrimonio Cultural valenciano: Propuestas y resultados. Coloquios de Paleontología, ISSN 1132-1660, Nº 50, 1999, págs. 37-44.
- Ruiz-Sánchez, F.J. 2005. La legislación de medio ambiente y la protección del patrimonio paleontológico en la Comunidad Valenciana (España). Revista española de paleontología, ISSN 0213-6937, Nº. Extra 10, 2005 (Ejemplar dedicado a: XIX Jornadas de Paleontología : "Flora y faunas del Mesozoico: paleoecología y paleoclimatología"), págs. 119-124