

Management and Diffusion of Paleontological Heritage

2014/2015

Code: 43134
ECTS Credits: 6

Degree	Type	Year	Semester
4314104 Paleontologia	OT	0	1

Contact

Name: Josep Maria Pons Muñoz
Email: JosepMaria.Pons@uab.cat

Use of languages

Principal working language: català (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: No

Teachers

Jaume Gallemlé Paulet
Jordi Galindo Santanach
Jordi Martinell Callicó

External teachers

Joan Muñoz Vicente

Prerequisites

General knowledge on Palaeontology.

Objectives and Contextualisation

To know the laws regulating and allowing the management of the palaeontological heritage, and how to develop this management. To know the problematic of the fossil sites management and open air musealization.

To know the methods, technologies and management models of the palaeontological collections and to exercise in its practical use.

To know and exercise in the scientific diffusion methods and in the organization and management of museological activities.

Skills

- Analyse data using the appropriate tools in the field of palaeontology.
- Design and conduct research in the field of palaeontology and disseminate the results.
- Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
- Obtain and synthesise information from the scientific literature (library, databases, online journals or reliable websites) in the field of palaeontology.

- Recognise and use appropriately the fossil record to solve specific problems in the different areas of palaeontology.
- Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
- Use acquired knowledge as a basis for originality in the application of ideas, often in a research context.
- Use the different techniques for studying, conserving and disseminating the fossil record.

Learning outcomes

1. Adapt research results to different kinds of audiences.
2. Analyse data using the appropriate tools in the field of palaeontology.
3. Identify problems and propose solutions to lessen the impact of civil works on the palaeontological heritage.
4. Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
5. Know and make scientific use of palaeontological collections.
6. Know methods and techniques for conserving and managing palaeontological collections.
7. Know methods and techniques for musealising palaeontological sites in open spaces.
8. Know the main tools for managing the palaeontological heritage.
9. Know the scientific value of the country's fossil sites.
10. Obtain and synthesise information from the scientific literature (library, databases, online journals or reliable websites) in the field of palaeontology.
11. Organise and manage activities in museology.
12. Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
13. Use acquired knowledge as a basis for originality in the application of ideas, often in a research context.
14. Use communication tools for non-specialist audiences.

Content

Block 1: Management of palaeontological sites

- The administration and the palaeontological heritage.
- Musealized palaeontological sites.
- Works control. Non-scheduled and urgent interventions.
- Fossil sites of heritage relevance. Catalogue of fossil sites.

Block 2: Collections

- Acquisition, preparation, registration and documentation of palaeontological samples.
- Curation, accommodation and management models of palaeontological collections.
- Elaboration and curation of catalogues (general - type and figured).
- Diffusion of the information of the palaeontological data bases: access levels (public, investigators, managers).
- Past, present and future of the palaeontological collections management.
- The practical management of palaeontological collections.

Block 3: Diffusion and museology

- The communication in thematic collections.
- The publics of the cultural resorts.
- Organisation and structure of the information.
- On-line communication: social nets.
- Organisation and management of activities in museology.
- Visit to the mNACTEC cultural resort.

Methodology

Lectures and practical lessons will be structured in 2 h sessions. In some cases they will be lectures/practical lessons.

Exercises and works will be done in correspondence with the lectures and practical lessons. Some of the works shall be presented.

Activities

Title	Hours	ECTS	Learning outcomes
Type: Directed			
lectures	32	1.28	1, 2, 9, 6, 7, 5, 8, 13, 3, 4, 10, 11, 12, 14
practical lessons	4	0.16	1, 5, 3, 4, 11, 12, 14
Type: Supervised			
exercises resolution, elaboration and presentation of works	36	1.44	1, 2, 9, 6, 7, 5, 8, 13, 3, 4, 10, 11, 12, 14
Type: Autonomous			
study of the lectures and practical lessons and proposed articles reading	78	3.12	1, 2, 9, 6, 7, 5, 8, 13, 3, 4, 10, 11, 12, 14

Evaluation

qualification will be done on the exercises and works delivery and the theory/practice examinations.

Evaluation activities

Title	Weighting	Hours	ECTS	Learning outcomes
exercises and works delivery	40%	0	0	1, 2, 9, 6, 7, 5, 8, 13, 3, 4, 10, 11, 12, 14
theory/practice examinations	60%	0	0	1, 2, 9, 6, 7, 5, 8, 13, 3, 4, 10, 11, 12, 14

Bibliography

Brunton, C.H.C., Besterman, T.P., Cooper, J.A. 1985. Guidelines for the curation of geological materials. Geological Society Miscellaneous Paper 17.

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.

Diputació de Barcelona. Area de Cultura. Oficina de Patrimoni Cultural. 2006. Interpretar el Patrimoni. Guia bàsica. Col·lecció_Estudis. Recursos Culturals, 1. 138 pp.

Lago, M., Arranz, E., Andrés, J.A., Soria, A.R., Galé, C. 2001. Patrimonio Geológico: Bases para su estudio. Publicaciones del Consejo de Protección de la Naturaleza de Aragón. Serie: Investigación: 107 pp.

Lipps J.H. 2009.- PaleoParks: Our paleontological heritage protected and conserved in the field worldwide.- In: Lipps, J.H. & Granier B.R.C. (eds.), PaleoParks - The protection and conservation of fossil sites worldwide. Carnets de Géologie / Notebooks on Geology, Brest, Book 2009/03, Chapter 01 (CG2009_BOOK_03/01)

Martinell, J.2007. El turismo de la natura. TOTCETT, 13: 38.

Montoro, M^a. J. & Martinell, J.2008. El registro Paleontológico: Cultura o Naturaleza. Consonancias y Disonancias Normativas. Revista de Derecho Urbanístico y Medio Ambiente, 42(245): 147-183.

Prestas Abaide, J. 2002. Regime Jurídico dos Fósseis Vegetais. Instrumentos de utilização e Técnicas de proteção. Juruá Editora, Curitiba (Brasil): 231 pp.

Thomas, J. 2010. Collections universitaires et Paléontologie. La Lettre de l'OCEM. 129. <
<http://ocim.revues.org/172>>

<http://preparation.paleo.amnh.org/1/home>

<http://collections.paleo.amnh.org/>