Course guide
33110 - REDMOP - Restoration of Lanscapes Deteriorated by Mining and Public Works

Last modified: 04/05/2023

Unit in charge: Manresa School of Engineering
Teaching unit: 750 - EMIT - Department of Mining, Industrial and ICT Engineering.

Degree: MASTER'S DEGREE IN NATURAL RESOURCE ENGINEERING (Syllabus 2015). (Optional subject).

Academic year: 2023 **ECTS Credits:** 5.0 **Languages:** Spanish

LECTURER

Coordinating lecturer: Hoffmann Sampaio, Carlos

Others:

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
1. The ability to restore spaces degraded by natural resource exploitation using the most current restoration techniques.

Generical:
2. The ability to take the initiative and be creative.
3. The ability to communicate effectively orally and in writing.
4. The ability to lead work teams.
5. A broad awareness of professional ethics and the will to improve.
6. Awareness of environmental issues.

TEACHING METHODOLOGY

Attendance at scheduled lectures is noted. The practical exercises carried out and a bibliographic research assignment related to the content of the subject are assessed.

LEARNING OBJECTIVES OF THE SUBJECT

1. To study the way in which the environmental impact of geological resource exploitation is described.
2. To describe systems for correcting environmental impact.
3. To correctly restore spaces by moving materials, conditioning, revegetating and determining a maintenance programme.

STUDY LOAD

Type	Hours	Percentage
Hours medium group	15,0	33.33
Hours large group	30,0	66.67

Total learning time: 45 h

CONTENTS

-DESCRIPTION

Description:
1. To study the way in which the environmental impact of geological resource exploitation is described.
2. To describe systems for correcting environmental impact.
3. To correctly restore spaces by moving materials, conditioning, revegetating and determining a maintenance programme.

Full-or-part-time: 45h
Theory classes: 30h
Practical classes: 15h

GRADING SYSTEM

Different parts of the course, the practical exercises carried out and a final assignment demonstrating the attainment of subject are assessed. Assessment is divided up as follows:

· Individual continuous assessment, class attendance and a final exam, if applicable: 50%

· A real-world group assignment and its presentation: 50%

BIBLIOGRAPHY

Basic:
- Borrell i Ruscalleda, Joan, i altres. Recull d'accions per minimitzar l'impacte de les infraestructures viàries sobre el territori [on line]. Barcelona: Generalitat de Catalunya. Departament de Medi Ambient, 2000 [Consultation: 21/12/2020]. Available on: http://www.gencat.cat/mediamb/publicacions/monografies/DQMA5_accions_minimit_impacte_infras_viaries_territori.pdf. ISBN 8439350503.
- Jorba, Montse; Vallejo, V. Ramon, coords. Manual per a la restauració de pedreres de roca calcària en clima mediterrani [on line]. Barcelona: Generalitat de Catalunya, Departament de Medi Ambient i Habitatge, 2010 [Consultation: 21/12/2020]. Available on: http://atzavara.bio.ub.edu/geoveg/docs/Jorba_et_al_2010_Manual.pdf. ISBN 9788439376729.
- Aguiló Alonso, M., i altres. Guía para la elaboración de estudios del medio físico: contenido y metodología. 3ª ed. Madrid: Ministerio de Medio Ambiente, 2006. ISBN 848320374X.
- Evaluación y corrección de impactos ambientales. 2ª ed. Madrid: Instituto Tecnológico Geominero de España, 1998. ISBN 8478401482.
- Recomanacions tècniques per a la restauració i condicionament dels espais afectats per activitats extractives [on line]. Barcelona: Generalitat de Catalunya. Departament de Política Territorial i Obres Públiques, 1987 [Consultation: 25/05/2023]. Available on: http://www.gencat.cat/mediamb/publicacions/monografies/recomanacions_tecniques_restauracio_espais_afectats_activitats_extractives.pdf. ISBN 8439308175.