

Plan 506 MÁSTER ERASMUS MUNDUS: MEDITERRANEAN FORESTRY AND NATURAL RESOURCES MANAGEMENT

Asignatura 53030 LEARNING BY DOING IN FORESTRY: NEW TOOLS FOR NEW CHALLENGES

Tipo de asignatura (básica, obligatoria u optativa)

Elective

Créditos ECTS

6 ECTS

Competencias que contribuye a desarrollar

GENERAL ABILITIES:

- Ø Know and apply knowledges in practice, analyzing, summarizing, organizing & planning
- Ø To be able to communicate orally and writing in specialized meetings as well as for non expert people
- Ø To be able to take decisions and solve problems
- Ø To be able to work in different scale context s: local, regional, domestic & international scales
- Ø To be able to work in cross-disciplinary and multi-ethnic groups
- Ø To develop interpersonal relations, recognizing and appreciating other cultures and habits as well as diversity and multiculturalism
- Ø To get involved in sex equality in both teaching and personal spheres
- Ø To develop creativity and use leadership abilities

SPECIFIC ABILITIES

- Ø To give scientific knowledge from different fields that allow to face challenges and specific needs of Mediterranean forests
- Ø To develop new management adaptive strategies based on Mediterranean ecosystems functions and processes knowledge

Objetivos/Resultados de aprendizaje

Following the Dublin Descriptors, students of this course must:

- i) have demonstrated knowledge and understanding that is founded upon and extends and/or enhances that typically associated with Bachelor's level, and that provides a basis or opportunity for originality in developing and/or applying ideas, often within a research context;
- ii) can apply their knowledge and understanding, and problem solving abilities in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study;
- iii) have the ability to integrate knowledge and handle complexity, and formulate judgements with incomplete or limited information, but that include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgements;
- iv) can communicate their conclusions, and the knowledge and rationale underpinning these, to specialist and non-specialist audiences clearly and unambiguously;
- v) have the learning skills to allow them to continue to study in a manner that may be largely self-directed or autonomous.

In this framework the students will be able to design, manage and apply techniques on (i) Adaptive Management, (ii) Forest Management under global change, (iii) silvicultural path design, (iv) quantitative silviculture and (v) monitoring, experimentation and data analysis.

Contenidos

1. Adaptive Management
2. Global change: impact on forest and forestry. Mitigation and adaptation
3. Quantitative silviculture and Forest modeling.
4. Silvicultural path design

Principios Metodológicos/Métodos Docentes

Theory, Labs, field trips and seminars

Criterios y sistemas de evaluación

Course requirements include active participation (10%), the presentation of a class summary (10%), a class project (30%) and a final exam (50%).

Recursos de aprendizaje y apoyo tutorial

NOTICE: When needed specific updated resources for each section will be available weekly on UVa-Moodle platform

BRAVO, F., LEMAY, V., GADOW, K. VON, JANDL, R. (Eds) 2008. Managing Forest Ecosystems: The Challenge of Climate Change. Springer. ISBN: 978-1-4020-8342-6 342 pages

Robinson, A.P, Hamman J.D. 2011. Forest Analytics with R: An Introduction. Springer ISBN 978-1-4419-7761-8

Calendario y horario

See details at <http://www5.uva.es/etsiiaa/>

Tabla de Dedicación del Estudiante a la Asignatura/Plan de Trabajo

Activities in person

Personal work

Theory

20

Reviewing concepts

30

Labs and travels

28

Practical work

60

Seminars

10

Other activities

2

TOTAL

60

TOTAL

90

Responsable de la docencia (recomendable que se incluya información de contacto y breve CV en el que aparezcan sus líneas de investigación y alguna publicación relevante)

Dr. Felipe Bravo Oviedo

<http://sostenible.palencia.uva.es/users/fbravo>

http://www.researchgate.net/profile/Felipe_Bravo4

<http://www.researcherid.com/rid/C-5073-2009>

<http://orcid.org/0000-0001-7348-6695>

Dr. Miren del Río
<http://sostenible.palencia.uva.es/users/delrio>

Dr. Andrés Bravo
<http://sostenible.palencia.uva.es/users/andresbravo>

Dr. Ricardo Ruiz Peinado
<http://sostenible.palencia.uva.es/users/rruiz>
<http://orcid.org/0000-0003-0126-1651>
<http://www.researcherid.com/rid/G-6751-2012>

Idioma en que se imparte

English
