

FICHA de la Asignatura

TITLE: BOTANICAL GEOGRAPHY

Tutor: Pablo Hidalgo Fernández

ECTS: 3 (second semester)

Description

Botanical Geography (geobotanic) or the Science of Vegetation deals with the description, interpretation and prediction of types of community distribution, populations or other botanical units which can be found at comparable levels of integration in space and time.

Recommendations

It is necessary previous notions of biology and botany. This course is recommended for students of Biology, Environmental Sciences, Forestry, etc. For other students please contact to teacher.

Aims

The aim of this module is to provide the student some notions about the science of the study of the vegetation. Biogeography, bioclimatology and vegetation distribution in the world are the main focus of this subject. A special section will be focus on the habitats classifications done by EU in the frame of Habitat Directive.

Learning outcomes

By the end of the module students should be able to:

- To know the concepts of flora, vegetation and landscape.
- To understand the link between (bio)climatology and species distribution.
- Know the historical processes responsible of species distribution by means of (bio)geography.
- To study the main technics of vegetation analysis and description.

Syllabus indicative content

Theory:

- Introduction to Botanical Geography: flora, vegetation and landscape.
- Bioclimatology.
- Biogeography.
- Analysis and classification of the Vegetation description and analysis.
- Vegetation of Iberian Peninsula and of the world.

Practices:

- Excursion to Natural Park of Sierra de la Nieves.

Assessment

Coursework (weighting): 70%

Other activities (excursions, practices, etc.): 30%

Reading list

- ALCARAZ, F. (1999). *Manual de teoría y práctica de geobotánica*. Servicio de Publicaciones de la Universidad de Murcia.
- ARCHIBOLD, O. W. (1996) *Ecology of world vegetation*. Chapman & Hall. London
- BRAUN BLANQUET, J. (1979). *Fitosociología. Bases para el estudio de las comunidades vegetales*. Ed. Blume. Madrid.
- BRIGGS, J.C. (1995). *Global biogeography*. Elsevier. Amsterdam
- COX, C. B. y MOORE P.D. (1995). *Biogeography: an ecological and evolutionary approach*. Blackwell Science. Oxford.
- CRAWLEY, M. J. (1998) *Plant ecology*. Blackwell Science. Oxford.
- GOOD, R. (1974) *The Geography of the flowering plants*. Longman. London
- HENGVELD, R. (1992) *Dynamic biogeography*. Cambridge University Press. Cambridge .
- HUETZ DE LEMPS, A. (1970). *La vegetacion de la Terre*. Masson. Paris.
- KENT, M. y COKER, P. (1999). *Vegetation description and analysis: a practical approach*. John Wiley & Sons. Chichester.
- SAUER, J. D. (1988) *Plant migration: the dynamics of geographic patterning in seed plant species*. University of California Press. Berkeley.
- TAKHTAJAN, M. (1986). *Floristic regions of the world*. University of California Press. Berkeley.
- TIVY, J. (1996) *Biogeography: a study of plants in the ecosphere*. Longman. Harlow.
- WALTER, H. (1994). *Zonas de vegetación y clima*. Omega. Barcelona.
- WHITTAKER, R.H. (1978). *Classification of Plant Communities*. Junk bv. Publishers. The Hague.
- WOODWARD, F. I. (1996) *Climate and plant distribution*. Cambridge University Press. Cambridge.