

60417 - Introduction to geographical IT

Información del Plan Docente

Academic Year	2017/18
Faculty / School	103 - Facultad de Filosofía y Letras
Degree	352 - Master's in Geographical Information Technology for Territorial Development: Geographical Informations Systems and Teledetection
ECTS	3.5
Year	1
Semester	Annual
Subject Type	Compulsory
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

4.1.Assessment tasks (description of tasks, marking system and assessment criteria)

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

The learning and teaching methodology developed in the course is aimed to promote the achievement of the learning objectives. A wide range of teaching and learning activities is implemented, such as lectures, practice sessions, practical exercises, individual or group activities, guided tasks and study.

A high level of student participation will be required from all students throughout the course.

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Extensive material will be available *via* the Moodle site of the course. This offers a variety of resources including a repository of the lecture notes used in class as well as other forms of course-specific materials.

5.2.Learning tasks

The course includes the following learning tasks:

- Lectures: 20 hours
- Practical activities: Interactive, individual or group activities: 20 hours
- Guided tasks: 1.5 hours
- Study: 50 hours

5.3.Syllabus

The course will address the following topics:

Topic 1.1. Geographic Information Technologies: introductory issues

Topic 1.2. Learning of software: a basic introduction to ArcGIS and ERDAS.

5.4.Course planning and calendar

Sessions will be developed during the first month of the course. Assignments will be conducted in the first of the three assessment periods (February). Students will also have the June and September official exam periods.

For further details concerning the timetable, classroom and other information of the course please refer to the "*Facultad de Filosofía y Letras*" website (<https://fyl.unizar.es/horario-de-clases#overlay-context=horario-de-clases>).

5.5.Bibliography and recommended resources

- Aplin, P., ¿Remote sensing: base mapping?. *Progress in Physical Geography* 27 (2), pp.275-283
- Conesa, C., ¿Los sistemas de Información geográfica, un tema en auge para el debate: tecnología o ciencia, investigación y aprendizaje, aplicación global o integrada?. En: *Tecnologías de la información geográfica : territorio y medio ambiente : ponencias, relatorias y sesiones técnicas del XI Congreso de Métodos Cuantitativos, SIG y Teledetección*, celebrado en Murcia, 20-23 de septiembre, 2004. Murcia : Universidad de Murcia, 2005, pp.13-52
- Crampton, J.W., ¿Maps as social constructions: power, communication and visualization?, *Progress in Human Geography*, 25 (2) 2001, pp. 235-252
- García Cuesta, J.L.. ¿Avances y retos en el ámbito de la información geográfica?. En: *Ciencia y tecnología de la información geográfica*, Burgos : Editorial Dossoles, 2003, pp.13-24.
- Sancho Comins, J.. ¿Información geográfica como base para la toma de decisiones?, *El campo : revista mensual agropecuaria* , 138, p. 3-22