Universidad Zaragoza

60422 - Principles of cartographic design

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	2.0
Year	1
Semester	Annual
Subject Type	Optional
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 range of teaching and learning activities is implemented, such as lectures, practice sessions, practical exercises with GIS software, group activities, and study.

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

A portfolio is required from all the students, which consists of a collection of the students' coursework that shows their learning process and knowledge acquisition.

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, a course syllabus as well as other forms of course-specific materials.

5.2.Learning tasks

The course includes the following learning tasks:

- Lectures: 15 hours
- Interactive, individual or group activities: 5 hours
- Guided tasks: 10 hours
- Study: 9 hours
- Assessment: 1 hour

5.3.Syllabus

The course will address the following topics:

Topic 1. The Geographic and Cartographic Framework

Topic 2. The cartographic process

Topic 3. Planning and Composition

Topic 4. Base map and thematic data

Topic 5. Symbolization

Topic 6. Decision-making process

Topic 7. Layout Design

Topic 8. Critique of maps

5.4.Course planning and calendar

The course is divided into 8 topics. The length of this course is of two weeks during the first semester. Each session lasts 2.5 hours.

For further details concernig 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

Bertin, Jacques. Semiology of graphics : diagrams, networks, maps / Jacques Bertin. 1967

Brewer, Cynthia A.. Designing better maps :a guide for GIS users / Cynthia A. Brewer. Redlands, Calif. : ESRI Press, 2005

Dent, Borden D.. Cartography : thematic map design / Borden D. Dent, Jeffrey S. Torguson, Thomas W. Hodler . 6a ed. New York : McGraw-Hill Higher Education, 2009

Thematic cartography and geovisualization / Terry A. Slocum ... [et al.] . - 3rd ed. Upper Saddle River, NJ : Pearson Prentice Hall, cop.200

Zanin, Christine. Savoir faire une carte : Aide à la conception et à la réalisation d'une carte thématique univariée / Christine Zanin, Marie-Laure Trémélo . Paris : Belin, D.L. 2010

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Denègre,Jean. Sémiologie et conception cartographique / Jean Denègre.

Elements of cartography / Arthur H. Robinson...[et al.] . - 6th ed. New York [etc.] : John Wiley & sons, cop. 1995

MacEachren, Alan M.. How maps work : representation, visualization, and design / Alan M. MacEachren New York ; London : Guilford Press, cop. 2004

Peterson, Gretchen N.. GIS cartography : a guide to effective map of design / Gretchen N. Peterson. . Boca Raton : CRC Press, c2009.

Poidevin, Didier. La carte moyen d'action :conception - réalisation / Didier Poidevin. Paris : Ellipses, cop. 1999

The map reader : theories of mapping practice and cartographic representation / edited by Martin Dodge, Rob Kitchin and Chris Perkins Oxford : Willey-Blackwell, 2011

Tyner, Judith A.. Principles of map design / Judith A. Tyner New York [etc] : Guilford, 2010