SYLLABUS

1. COURSE DESCRIPTION

Degree:	Environmental Sciences
Course:	Geographic Information Systems and Environmental Cartography (SIGCA)
Module:	Geographic Information Technology
Department:	Geography, History and Philosophy
Academic Year:	2017/18
Term:	Second
ECTS credits:	6
Year:	2nd year
Type:	Compulsory
Language:	Spanish

Course Model:	C1	
a. Basic learning (EB):		50%
b. Practical learning (EPD):		50%

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2.2 Lecturer:	
Name:	**Macarena Tejada Tejada**
School:	**Environmental Sciences**
Department:	**Geography, History and Philosophy**
Area:	**Physical Geography**
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3. TOPICS

Basic Learning (EB)

The basic learning is organized into four topics; developed in 23 sessions of one hour each.

TOPIC A.- *Introduction to the subject*

TOPIC B.- *Data sources.*
• *Introduction*
• *Spatial data sources*
• *Spatial data bases*

TOPIC C.- *Geographical Information Systems .*
• *Models for geographic information*
• *Vector Model*
• *Raster model*
• *Functions of a GIS*
• *IDEEs Spatial Data Infrastructures*

TOPIC D.- *Environmental thematic mapping .*
• *Introduction*
• *Cartographic and geodetic foundations*
• *Basic concepts of visualization*
• *Types of maps*
• *Elements of a map*
• *Representation of maps*
• *Cartographic symbolization*

Practice Learning (EPD)

The practical classes take place in sessions of 3 hours, once a week.

1. **Basics of the Software.**

2. **Consult and generate new information**.

3. **Vector analysis.**

4. **Raster analysis**.

5. **Data sources**.

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