

28307 - Climatology

Información del Plan Docente

Academic Year	2016/17
Academic center	103 - Facultad de Filosofía y Letras
Degree	419 - Degree in Geography and Land Management
ECTS	6.0
Course	1
Period	Second semester
Subject Type	Basic Education
Module	---

1.Basic info

1.1.Recommendations to take this course

1.2.Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

The learning and teaching methodology developed in the course of Climatology is aimed to promote the attainment of its objectives. A wide range of teaching and learning activities is implemented, such as interactive lessons, practical exercises, optional seminars and private study.

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

Extensive material will be available *via* the Moodle site of the course. This offers a variety of resources including a

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repository of the lecture notes used in class, a course syllabus as well as other forms of course-specific materials, including practical exercises guidelines and data.

5.2.Learning activities

Lecture sessions 25 hours

Practical activities: 9,5 hours

Combined with lab: 10 hours

Seminars 18 hours

Tutorials 9 hours

Private study 75 hours

Assessment 3,5 hours

5.3.Program

The lecture course will address the following main issues:

- Climate system and atmosphere
- Budget radiation
- Temperature and factors
- Pressure and factors
- Movement of air
- Atmospheric humidity
- Precipitation and factors
- Air mass and perturbation
- Climate of the world

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Each item is developed by using 3-4 hours as oral presentation and discussion and 2 hours of practical works.

5.4.Planning and scheduling

For further details concerning the timetable, classroom and other information of the course please refer to the

"Facultad de Filosofía y Letras" web site (<https://fyl.unizar.es/horario-de-clases#overlay-context=horario-de-clases>)

Specific adjust to annual calendar is presented during the first session

5.5.Bibliography and recommended resources

Text data can vary, but in general are usually re-edited and uptodated

Main hand book Aguado E, Burt J (2004). *Understanding weather and climate* . Prentice Hall. Excelente manual con un CD magnífico por la claridad de sus exposiciones. Barry R, Hall-McKim E (2014) *Essentials of the Earth's climate system*. Cambridge Univ. Press.

Also chapter included in general Physical Geography hand book as follows:

Patton CP, Alexander CS, Kramer F (1978). *Physical Geography*.

Strahler AN (1974). *Physical Geography* ..

McKnight TM and Hess D (2002) *Physical Geography. A landscape appreciation* . Prentice Hall.

An extensive web-site list is included in middle resources, and also specific references is given along the sessions