SUBJECT TEACHING GUIDE

5167 - Climatology

Degree in Geography and Land Planning

Academic year 2026 - 2027

1. IDENTIFYING DATA					
Degree	Degree in Geography and Land Planning			Type and Year	Compulsory. Year 2
Faculty	Faculty of Humanities				
Discipline	Theoretical and methodological Fundamentals in Geography				
Course unit title and code	5167 - Climatology				
Number of ECTS credits allocated	6	Term	Semester based (1)		
Knowledge Field	History, archaeology, geography, philosophy and humanities				
Web	https://personales.unican.es/rasillad/docencia/g167/index_g167.htm				
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. GEOGRAFIA, URBANISMO Y ORDENACION DEL TERRITORIO
Name of lecturer	DOMINGO FERNANDO RASILLA ALVAREZ
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Other lecturers	

4. OBJECTIVES
To know the complexity of the climate system as a result of the combination of a number of factors: astronomical , atmospheric and geographical, variable in time and space
To understand the integrated functioning of the different elements of climate (temperature, humidity, pressure, etc.), with particular emphasis on the energy and hydrological balances between the atmosphere and the Earth's surface.
To understand the origin of the diversity and distribution of the different types of climates on the Earth's surface.
To use sources of information, techniques and tools of Climatology and appreciate its usefulness as a tool for interpretation of the territory
To incorporate this knowledge into the achievement of the Sustainable Development Goals, especially Goal 13: Climate Action.

6. SUBJECT PROGRAM	
CONTENTS	
1	THE FIELD OF STUDY IN CLIMATOLOGY
2	THE EARTH'S ATMOSPHERE
3	ENERGY IN THE CLIMATIC SYSTEM. SOLAR RADIATION AND TEMPERATURE
4	THE ROLE OF WATER IN THE ATMOSPHERE
5	GENERAL ATMOSPHERIC CIRCULATION
6	CLIMATIC REGIONS OF THE WORLD
7	EXAM

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessment	%
Field trip	Work	Yes	Yes	15,00
Continuous assessment activities	Others	No	No	30,00
Assessment of theoretical and practical concepts	Laboratory evaluation	Yes	Yes	55,00
TOTAL				100,00

Observations

The final grade for the course will be the result of averaging the grades from the assessment of theoretical and practical concepts, the individual assignment, and the continuous assessment activities. To obtain this final grade, students must meet the following conditions:
- Turn in all continuous assessment activities.
- Submit the individual assignment.
- Achieve a grade of no less than 4 points (out of a maximum of 10) on the assessment of theoretical and practical concepts.

According to Article 35 of the UC Evaluation Regulations, if the required minimum grade is not met, the overall grade will be the lower value between 4.9 and the weighted average of all assessment tasks.
Fraudulent conduct in evaluation activities (plagiarism, misappropriation of external information or AI-generated content without explicit citation, etc.) will result in a failing grade (0) for the course in the corresponding examination period. Its consideration and disciplinary regime will be governed by the provisions of the University of Cantabria regulations for such cases.
It is recommended to pay special attention to the presentation of both the continuous assessment activities and the Case Study Report, and particularly to the correct use of materials (maps, graphs, tables).
During the course of teaching, students will be offered the opportunity of a voluntary visit to the Territorial Delegation of AEMET in Cantabria, located in the neighborhood of Cueto

Observations for part-time students

Attention and evaluation of part-time students is carried out according to the UC regulations for such cases.

8. BIBLIOGRAPHY AND TEACHING MATERIALS
BASIC
CUADRAT, J.M. y PITA, M.F. (2004): Climatología. Cátedra. Madrid. 496p.
GIL OLCINA, A. y OLCINA CANTOS, J. (1997): Climatología general. Ed. Ariel Geografía. Barcelona.
ANDRADES, M. y MUÑEZ, C.. (2010): Fundamentos de Climatología. UNED. Madrid. 251p.
http://www.aemet.es/