SUBJECT TEACHING GUIDE

5172 - Photo Interpretation and Remote Sensing

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	Technical Fundamentals in Geography and Land Use Planning Technical Subjects in Geography				
Course unit title and code	5172 - Photo Interpretation and Remote Sensing				
Number of ECTS credits allocated	6	Term		Semester based (2)	
Knowledge Field	History, archaeology, geography, philosophy and humanities				
Web	https://personales.unican.es/rasillad/docencia/g174/Presentacion.html				
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. GEOGRAFIA, URBANISMO Y ORDENACION DEL TERRITORIO
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Other lecturers	

4. OBJECTIVES

The primary objective of the course is the acquisition of knowledge regarding the physical and conceptual foundations of Photointerpretation and Remote Sensing, alongside their practical applications in relation to spatial planning and the resolution of environmental problems.As a complementary objective, students will observe the dynamic nature of territory through the contrast of images from different eras or points in time.This course will address aspects related to the monitoring of the Sustainable Development Goals (SDGs), especially SDG 11 (Sustainable Cities and Communities), SDG 13 (Climate Action), and SDG 15 (Life on Land).

6. SUBJECT PROGRAM

CONTENTS	
1	TOPIC 1. Introduction
2	TOPIC 2: Remote Sensing.

3	TOPIC 3: Aerial Photography
4	Submission of Assignments and Final Evaluation

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessment	%
Continuous Assessment	Others	Yes	No	30,00
Case Study Report	Work	Yes	Yes	20,00
Assessment of Theoretical and Practical Concepts	Laboratory evaluation	Yes	Yes	50,00
TOTAL				100,00

Observations

Due to its practical nature, this course requires attendance at classroom sessions. This is both because exercises will be conducted during these sessions using specific materials (stereoscopes, image processing software), and because solving them requires continuous interaction between students and professors.
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).

Observations for part-time students

The support and evaluation of students enrolled on a part-time basis in the Degree will be carried out in accordance with the UC regulations for such cases

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

FERNÁNDEZ GARCÍA, F. (2000) Introducción a la fotointerpretación. Barcelona: Ediciones Ariel. 253p.

CHUVIECO, E. (2000): Fundamentos de Teledetección espacial, Madrid, Rialp.

KAMUSOKO, C (2019): Remote Sensing Image Classification in R. Springer Geography, Singapore, 189 pp.

GARCÍA RODRÍGUEZ, M. P., SANZ DONAIRE, J. J., PÉREZ GONZÁLEZ, M. E. y NAVARRO MADRID, A. (2013): Guía Práctica de Teledetección y Fotointerpretación, Madrid, Universidad Complutense de Madrid, PIMCD 82/2011-12.

RANI, A; KUMAR, N; SINGH SK. y SINHA NK (2021): Remote Sensing Data Analysis in R. CRC Press, 364 pp