UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Course: GEOGRAPHIC ANALYSIS TECHNIQUES
Code: 66461
Type: CORE COURSE
ECTS credits: 6
Degree: 404 - UNDERGRADUATE DEGREE GEOGRAPHY, TERRITORIAL DEVELOPMENT AND SUSTAINABILITY
Academic year: 2022-23
Center: 2 - FACULTY OF LETTERS
Group(s): 23
Year: 2
Duration: First semester
Main language: Spanish
Second language:
Use of additional languages:
English Friendly: Y
Web site:
Bilingual: N

Lecturer: **HECTOR SAMUEL MARTINEZ SANCHEZ-MATEOS** - Group(s): **23**

Building/Office	Department	Phone number	Email	Office hours
Facultad de Letras/2.24	GEOGRAFÍA Y ORD. TERRITORIO	6865	hectors.martinez@uclm.es	Tuesday: 16:00 - 18:00 Wednesday: 10:00 - 14:00

2. Pre-Requisites

There are no specific pre-requisitives. It is adviced having basic knowledge on statistics and software.

3. Justification in the curriculum, relation to other subjects and to the profession

The subject develops contents from the subject-matter Languages and Geographical Techniques, stating concepts, sources, methods and tools for the spatial analysis.

4. Degree competences achieved in this course

Course competences

Code	Description
CB04	Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences.
CE08	To apply the methods and techniques of geographical analysis especially oriented to the design and management of the instruments of territorial development and protection of the natural and cultural heritage.
CE09	Explain and represent territorial processes from education for sustainability.
CT02	Know and apply the Information and Communication Technologies.

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Answer to location questions, differentiation and relation typical of geographical analysis, spatial development and sustainability, by using GIT

Using software tools of treatment and information management

Learn the skills to obtain, store, management, analysis and graphic and cartographic outputs of the geographic information

6. Units / Contents

Unit 1: Introduction. The geographical information, sources and methods
- **Unit 1.1** The scientific method and its methods of study
- **Unit 1.2** The spatial information. Scale, interrelation and spatiality

Unit 2: Field-work techniques
- **Unit 2.1** Cartography and spatial analysis
- **Unit 2.2** Observation, orientation and spatial location
- **Unit 2.3** Samples and data gathering on the field
- **Unit 2.4** Development and interpretation of databases

Unit 3: Qualitative techniques
- **Unit 3.1** Interviews and surveys
- **Unit 3.2** Social indicators
- **Unit 3.3** Secondary sources of information

Unit 4: Characterization of events: descriptive measures
- **Unit 4.1** Basic statistics
- **Unit 4.2** Time series
- **Unit 4.3** Making indicators

Unit 5: Communication and information display
- **Unit 5.1** Keys for design of graphics
- **Unit 5.2** Formats and means of presentation

ADDITIONAL COMMENTS, REMARKS

Some contents might be adjusted due to connection with other subjects

7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	CE08 CT02	0.68	17	N	-	Theoretical concepts of the subject
Computer room practice [ON-SITE]	Guided or supervised work	CE08 CT02	0.56	14	N	-	Basic learning on software and tools
Problem solving and/or case studies [ON-SITE]	Project/Problem Based Learning (PBL)	CE08 CE09 CT02	0.8	20	Y	Y	Exercices, practices and tasks with a methodological approach
Project or Topic Presentations [ON-SITE]	Individual presentation of projects and reports	CB04 CE09	0.24	6	Y	Y	Presentation of results
Writing of reports or projects [OFF-SITE]	Problem solving and exercises	CB04 CE09 CT02	2.4	60	Y	Y	Build a portfolio gathering the tasks and parctices
Study and Exam Preparation [OFF-SITE]	Self-study	CB04 CE09	1.2	30	N	-	Self work to resolve practices and tasks
Final test [ON-SITE]	Assessment tests	CT02	0.12	3	Y	Y	Making final tests and exercices
		Total:	**6**	**150**			
		Total credits of in-class work: 2.4					**Total class time hours: 60**
		Total credits of out of class work: 3.6					**Total hours of out of class work: 90**

As: Assessable training activity
Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System

Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Assessment of problem solving and/or case studies	25.00%	0.00%	Assessment of the portfolio gathering the tasks made in the course
Projects	65.00%	15.00%	Assessment of the progress of the exercicies made in class
Oral presentations assessment	10.00%	0.00%	Oral presentations
Final test	0.00%	60.00%	Final exam with theoretical and practical contents
Portfolio assessment	0.00%	25.00%	Submit a portfolio with practices and exercices
Total:	**100.00%**	**100.00%**	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject , an ordinary and an extraordinary one (evaluating 100% of the competences).

Evaluation criteria for the final exam:

Continuous assessment:

It will be established periodical submissions for practices and oral presentations.
Partial questionaires might be scheduled with partial contents to ease the evaluation of competences. To suceed in the evaluation it is required to obtain a 40% of the grade on each evaluation.

Non-continuous evaluation:

For non-continuous evaluation it will be stablished a submission with a minimum of practical tasks and a final exam. To suceed in the evaluation it is required to obtain a 40% of the grade in the exam.

Specifications for the resit/retake exam:

There is an extra submission for practices

Specifications for the second resit / retake exam:

It is required a final exam with pracitices and exercices

9. Assignments, course calendar and important dates

Not related to the syllabus/contents

Hours	**hours**
Class Attendance (theory) [PRESENCIAL][Lectures]	3
Study and Exam Preparation [AUTÓNOMA][Self-study]	30
Final test [PRESENCIAL][Assessment tests]	3

Unit 1 (de 5): Introduction. The geographical information, sources and methods

Activities	**Hours**
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Group 23:	
Initial date: 13-09-2023	**End date:** 21-09-2023

Unit 2 (de 5): Field-work techniques

Activities	**Hours**
Class Attendance (theory) [PRESENCIAL][Lectures]	3
Computer room practice [PRESENCIAL][Guided or supervised work]	3
Problem solving and/or case studies [PRESENCIAL][Project/Problem Based Learning (PBL)]	5

Project or Topic Presentations [PRESENCIAL][Individual presentation of projects and reports]	1
Writing of reports or projects [AUTÓNOMA][Problem solving and exercises]	15
Group 23:	
Initial date: 27-09-2022	**End date:** 12-10-2022

Unit 3 (de 5): Qualitative techniques	
Activities	**Hours**
Class Attendance (theory) [PRESENCIAL][Lectures]	2
Computer room practice [PRESENCIAL][Guided or supervised work]	3
Problem solving and/or case studies [PRESENCIAL][Project/Problem Based Learning (PBL)]	5
Project or Topic Presentations [PRESENCIAL][Individual presentation of projects and reports]	2
Writing of reports or projects [AUTÓNOMA][Problem solving and exercises]	15
Group 23:	
Initial date: 18-10-2022	**End date:** 09-11-2022

Unit 4 (de 5): Characterization of events: descriptive measures	
Activities	**Hours**
Class Attendance (theory) [PRESENCIAL][Lectures]	3
Computer room practice [PRESENCIAL][Guided or supervised work]	5
Problem solving and/or case studies [PRESENCIAL][Project/Problem Based Learning (PBL)]	5
Project or Topic Presentations [PRESENCIAL][Individual presentation of projects and reports]	1
Writing of reports or projects [AUTÓNOMA][Problem solving and exercises]	15
Group 23:	
Initial date: 15-11-2022	**End date:** 07-12-2022

Unit 5 (de 5): Communication and information display	
Activities	**Hours**
Class Attendance (theory) [PRESENCIAL][Lectures]	2
Computer room practice [PRESENCIAL][Guided or supervised work]	3
Problem solving and/or case studies [PRESENCIAL][Project/Problem Based Learning (PBL)]	5
Project or Topic Presentations [PRESENCIAL][Individual presentation of projects and reports]	2
Writing of reports or projects [AUTÓNOMA][Problem solving and exercises]	15
Group 23:	
Initial date: 13-12-2022	**End date:** 21-12-2022

Global activity	
Activities	**hours**
Computer room practice [PRESENCIAL][Guided or supervised work]	14
Final test [PRESENCIAL][Assessment tests]	3
Project or Topic Presentations [PRESENCIAL][Individual presentation of projects and reports]	6
Writing of reports or projects [AUTÓNOMA][Problem solving and exercises]	60
Study and Exam Preparation [AUTÓNOMA][Self-study]	30
Class Attendance (theory) [PRESENCIAL][Lectures]	17
Problem solving and/or case studies [PRESENCIAL][Project/Problem Based Learning (PBL)]	20
Total horas: 150	

10. Bibliography and Sources

Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Buzai, Gustavo D. y otros (comp.)	Teoría y métodos de la Geografía Cuantitativa. Libro 2. https://drive.google.com/file/d/1dP2qd8QvnwZEXxg7-NTO0DAehCd6QfqV/view	INIGEO	Buenos Aires	978-987-1548-95-8	2019	
Buzai, Gustavo D. y Santana Juárez, Marcel V.	Métodos cuantitativos en Geografía Humana https://drive.google.com/file/d/1MRCoxAhpD4tqibFqiGQEwM3eeAsL9nA8/view	INIGEO	Buenos Aires	978-987-1548-98-9	2019	
Buzai, Gustavo D. y otros (comp.)	Teoría y métodos de la Geografía Cuantitativa. Libro 1. https://www.researchgate.net/publication/294572996_Teoria_y_metodos_de_la_Geografia_Cuantitativa_Libro_1_por_una_Geografia_de_lo_real	MCA libros		978-987-45986-2-2	2015	
Casas Sánchez, J.M. y otros	Estadística para las Ciencias Sociales	Ed universitaria Ramón Areces	Madrid	978-84-8004-963-4	2010	
García Ballesteros, Aurora (Coord.)	Métodos y técnicas cualitativas en geografía social /	Oikos-Tau,	Barcelona	84-281-0949-4	1998	
Gutiérrez Puebla, Javier	Técnicas cuantitativas : (estadística básica) /	Oikos-tau,	Barcelona	84-281-0857-9	1995	
Rogerson,	Statistical Methods for Geography	SAGE	Londres	978-1-4129-	2006	

Peter A. Higueras Arnal, Antonio M. Aramburo Maqua, M. P. y Escribano Bombín, R. (eds.)	Teoría y método de la Geografía. Introducción al análisis geográfico regional	Prensas Universitarias de Zaragoza	Zaragoza	0795-8 84-7733-646-6	2003
	Guía para la elaboración de estudios del medio físico (4ª ed.)	Fundación Conde del Valle de Salazar (E.T.S.I. de Montes) y Ministerio de Agricultura, Alimentación y Medio Ambiente	Madrid	978-84-96442-55-9	2014
	http://oa.upm.es/55224/				