

**1. General information****Course:** GEOGRAPHIC ANALYSIS TECHNIQUES**Type:** CORE COURSE**Degree:** 404 - UNDERGRADUATE DEGREE GEOGRAPHY, TERRITORIAL DEVELOPMENT AND SUSTAINABILITY**Center:** 2 - FACULTY OF LETTERS**Year:** 2**Main language:** Spanish**Use of additional languages:****Web site:****Code:** 66461**ECTS credits:** 6**Academic year:** 2023-24**Group(s):** 23**Duration:** First semester**Second language:****English Friendly:** Y**Bilingual:** N**Lecturer:** HECTOR SAMUEL MARTINEZ SANCHEZ-MATEOS - Group(s): 23

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**2. Pre-Requisites**

There are no specific pre-requisites. It is advised 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**

**Unit 3: Qualitative techniques**

**Unit 3.1** Interviews and surveys

**Unit 3.2**

**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****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	0.72	18	N	-	Theoretical concepts of the subject
Problem solving and/or case studies [ON-SITE]	Project/Problem Based Learning (PBL)	CE08 CE09 CT02	0.8	20	Y	Y	Exercises, 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 practices
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	0.08	2	Y	Y	Making final tests and exercises
Group tutoring sessions [ON-SITE]	Group tutoring sessions	CB04 CE08	0.32	8	Y	N	
Progress test [ON-SITE]	Assessment tests	CE08 CT02	0.24	6	Y	N	
<b>Total:</b>			<b>6</b>	<b>150</b>			
<b>Total credits of in-class work: 2.4</b>			<b>Total class time hours: 60</b>				
<b>Total credits of out of class work: 3.6</b>			<b>Total hours of out of class work: 90</b>				

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
Fieldwork assessment	20.00%	0.00%	
Progress Tests	20.00%	0.00%	
Assessment of problem solving and/or case studies	50.00%	0.00%	
Oral presentations assessment	10.00%	0.00%	
Practicum and practical activities reports assessment	0.00%	60.00%	
Theoretical exam	0.00%	40.00%	
<b>Total:</b>	<b>100.00%</b>	<b>100.00%</b>	

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 questionnaires might be scheduled with partial contents to ease the evaluation of competences. To succeed 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 established a submission with a minimum of practical tasks and a final exam. To succeed 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 practices and exercises

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
<b>Hours</b>	<b>hours</b>
Study and Exam Preparation [AUTÓNOMA][Self-study]	30
Final test [PRESENCIAL][Assessment tests]	2
Group tutoring sessions [PRESENCIAL][Group tutoring sessions]	14
Unit 1 (de 5): Introduction. The geographical information, sources and methods	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	8
Group 23:	
<b>Initial date:</b> 11-09-2023	<b>End date:</b> 22-09-2023
Unit 2 (de 5): Field-work techniques	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	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:	
<b>Initial date:</b> 27-09-2022	<b>End date:</b> 12-10-2022
Unit 3 (de 5): Qualitative techniques	
<b>Activities</b>	<b>Hours</b>

Class Attendance (theory) [PRESENCIAL][Lectures]	2
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:	
<b>Initial date:</b> 18-10-2022	<b>End date:</b> 09-11-2022
<b>Unit 4 (de 5): Characterization of events: descriptive measures</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	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:	
<b>Initial date:</b> 15-11-2022	<b>End date:</b> 07-12-2022
<b>Unit 5 (de 5): Communication and information display</b>	
<b>Activities</b>	<b>Hours</b>
Class Attendance (theory) [PRESENCIAL][Lectures]	2
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:	
<b>Initial date:</b> 13-12-2022	<b>End date:</b> 21-12-2022
<b>Global activity</b>	
<b>Activities</b>	<b>hours</b>
Final test [PRESENCIAL][Assessment tests]	2
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]	18
Problem solving and/or case studies [PRESENCIAL][Project/Problem Based Learning (PBL)]	20
Group tutoring sessions [PRESENCIAL][Group tutoring sessions]	14
<b>Total horas: 150</b>	

10. Bibliography and Sources					
Author(s)	Title/Link	Publishing house	Ciudad	ISBN	Year Description
Buzai, Gustavo D. y otros (comp.)	Teoría y métodos de la Geografía Cuantitativa. Libro 2.	INIGEO	Buenos Aires	978-987-1548-95-8	2019
<a href="https://drive.google.com/file/d/1dP2qd8QvnwZEXxg7-NT00DAehCd6QfqV/view">https://drive.google.com/file/d/1dP2qd8QvnwZEXxg7-NT00DAehCd6QfqV/view</a>					
Buzai, Gustavo D. y Santana Juárez, Marcel V.	Métodos cuantitativos en Geografía Humana	INIGEO	Buenos Aires	978-987-1548-98-9	2019
<a href="https://drive.google.com/file/d/1MRCoxAhpD4tqibFqiGQEWm3eeAsL9nA8/view">https://drive.google.com/file/d/1MRCoxAhpD4tqibFqiGQEWm3eeAsL9nA8/view</a>					
Buzai, Gustavo D. y otros (comp.)	Teoría y métodos de la Geografía Cuantitativa. Libro 1.	MCA libros		978-987-45986-2-2	2015
<a href="https://www.researchgate.net/publication/294572996_Teoria_y_metodos_de_la_Geografia_Cuantitativa_Libro_1_por_una_Geografia_de_lo_real">https://www.researchgate.net/publication/294572996_Teoria_y_metodos_de_la_Geografia_Cuantitativa_Libro_1_por_una_Geografia_de_lo_real</a>					
Casas Sánchez, J.M. y otros	Estadística para las Ciencias Sociales	Ed universitaria Ramón Areces	Madrid	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, Peter A.	Statistical Methods for Geography	SAGE	Londres	978-1-4129-0795-8	2006
Higueras Arnal, Antonio M.	Teoría y método de la Geografía. Introducción al análisis geográfico regional	Prensas Universitarias de Zaragoza	Zaragoza	84-7733-646-6	2003
Aramburo Maqua, M. P. y Escribano Bombín, R. (eds.)	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

