

Updated On	2021/09/28										
Curricular Year / Period	2021/22 / S1										
Course	Agronomia										
Curricular Unit	SIG e Planeamento Territorial										
Language(s) of Instruction	Português Inglês										
ECTS/tempo de trabalho (horas)	ECTS	Total	Horas de contacto semestral								
	3		T	TP	PL	S	TC	E	O	OT	EC
				32	16						
	T - Theoretical; TP - Theoretical and practical; LP - Laboratory Practice; S - Seminar; TG - Tutorial guidance; FW - Fieldwork; T - Training; ; EC - Clinical teaching; O* - Other hours typified as Clinical Training under the Directive 77/453/EEC of June 27, adapted by Directive 2005/36/EC.										
Teacher in charge (GDPR consent) <small>[complete name, email]</small>	Luís Carlos Loures / lcloures@ipportalegre.pt										
Other teachers (GDPR consent) <small>[complete name, email]</small>	Susana Barreto Saraiva Dias / sdias@ipportalegre.pt										
Prerequisites <small>[Curricular Units that must precede and specific entry competences]</small>	no prerequisites										
Learning outcomes <small>[Description of the overall and specific objectives] [Knowledge, skills and competences to be developed by students]</small>	<p>Know the main data sources for a GIS. Understand the different data models in GIS, including the implications on geographic modeling capabilities. Critically evaluate the information available for analysis. Inquire and analyze a spatial database. Plan and perform geoprocessing operations. Perform spatial analysis operations on raster and vector structures. Understand the main deficiencies and dysfunctions that affect territorial planning. Know the legislation and measures practices of implementation and operationalization of the territorial planning system. To be able to interpret, in an efficient way, problems inherent in the practice of territorial planning and to propose solutions to the problems identified.</p> <ol style="list-style-type: none"> 1. Know and know how to use the nomenclature proper to this theme; 2. Identify the main environmental problems; 3. Understand the influence of ecological factors on developmental level; 4. Apply knowledge to concrete forms of biodiversity conservation; 5. Acquire the technical-scientific skills that allow the correct handling of the methods and techniques studied; 6. Understand the main challenges and obstacles inherent in ecological and environmental problems; 7. Know how to interpret practical case studies and recommend intervention proposals. 										
Syllabus	<ol style="list-style-type: none"> 1. Territorial Planning - principles and definitions 2. Territorial Management Systems 3. Instruments and scales of Territory Planning and Management 4. Strategic intervention axes 5. Introduction to Geographic Information Systems 6. Data structure in Geographic Information Systems 7. Spatial analysis in vector structure 8. Spatial analysis in raster structure 										
Teaching methodologies (including assessment) <small>[Specify the types of assessment and the weights and evaluation criteria]</small>	<p>1 - Teaching methodologies</p> <p>Theoretical-practical classes with explanation of concepts and respective discussion and with presentation and analysis of practical cases. Tutorial classes for the resolution of exercises and practical application of the knowledge / concepts addressed in the theoretical-practical classes. The evaluation of this curricular unit will be carried out through individual and group practical work.</p>										

	<p>The application of the teaching and learning methodology described, considering both the proposed classroom typologies and the expected evaluation, allows the students to adequately achieve the recommended learning objectives for the UC: Interim assessments: 1 written evaluation test 50% Project: Elaboration of a practical work of planning 40% Participation and attendance: Participation in classes and attendance 10%</p> <p>RATING CRITERIA: (1) the quality and the spelling and grammatical rigor of the written components, (2) the clarity and objectivity of the texts, (3) the development, application and justification of the work based on both the requirements and the knowledge acquired throughout the course and (4) the graphic / visual quality of the presented elements.</p> <p>IMPORTANT NOTES: The student can not have a mark lower than ten (10) values in any of the evaluation moments. Failure to comply with this condition implies failure to discipline. For each day of delay in the delivery of the works will be discounted one (1) value. Only those admitted to the exam have obtained a positive classification in the UC project work.</p> <p>2 - Period assessment Interim assessments: 1 written evaluation test 70% Project: Elaboration of a individual work of planning 20% Participation and attendance: Participation in classes and attendance 10%</p> <p>3 - Examination assesement Interim assessments: 1 written evaluation test 70% Project: Elaboration of a individual work of planning 20% Participation and attendance: Participation in classes and attendance 10%</p>
<p>Bibliography</p>	<p>1 - Main Bibliography</p> <ul style="list-style-type: none"> - Burrough, Peter A., McDonnell, Rachel A., 1998. Principles of Geographical Information Systems. Oxford University Press - Matos, J. L., 2001. Fundamentos de informação Geográfica. Lidel. - Henriques, R. G. 1991. O ordenamento do território e a informação geográfica. Lisboa : Direcção-Geral do Ordenamento do Território. - Owens, S., 1992. Environmental Change and Land-use Planning, in Environment and Planning, Vol. 24 <p>2 - Complementary Bibliography</p>
<p>Special Situations [Students with special status]</p>	<p>1 - Period assessment - Students with special status Interim assessments: 1 written evaluation test 80% Project: Elaboration of a practical work of planning 20%</p> <p>2 - Examination assesement - Students with special status Interim assessments: 1 written evaluation test 80% Project: Elaboration of a practical work of planning 20%</p>