Universida_{de}Vigo

Subject Guide 2019 / 2020

IDENTIFYIN	· · · · · · · · · · · · · · · · · · ·					
	ques to Present Heritage					
Subject	CAD Techniques to					
	Present Heritage					
Code	O02M143V03107					
Study	(*)Máster					
programme						
	Valoración, xestión					
	e protección do					
-	patrimonio cultural					
Descriptors	ECTS Credits		Choose	Year	Quadmester	
	3		Mandatory	1st	1st	
Teaching	Spanish					
language	Galician					
Department						
Coordinator	Armesto González, Julia					
Lecturers	Armesto González, Julia				_	
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Web						
General	(*)Esta materia ofrece unas nociones	s fundamentales	sobre los sistemas	de represent	ación gráfica y su	
description	· · · · · · · · · · · · · · · · · · ·					
	proyección. Asimismo proporciona una introducción a las herramientas de software para poder generar planos					
	y documentos de representación gráfica a escala considerando unas pautas básicas recogidas en normas ESO.					
	Objetivos: Gestionar y elaborar documentación geomática de los bienes patrimoniales. Documentar las					
	características físicas, formales y el inmediato.	estado de conse	rvación del patrimo	onio cultural in	mueble y su entorno	

Competencies

Code

- A2 That students know how to apply the knowledge acquired and their ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their area of study.
- B2 Acquire the necessary knowledge to handle the different tools of graphic, dimensional and geospatial documentation to be applied in the documentation and valuation of Cultural Heritage.
- C5 Master and be able to apply instruments and procedures of various cartographic techniques to the real cultural heritage for its dimensional control and the elaboration of graphic documentation using CAD tools.
- C6 Analyze, refine and interpret geographic information, as well as its storage in databases, based on technical requirements for the inventory and documentation of an intervention project.
- D4 To be able to integrate the diverse information and data contributed by diverse technicians and tools in the writing of conclusions of action.
- D8 Acquire advanced knowledge and demonstrate, in a context of scientific and technological research or highly specialized, a detailed and substantiated understanding of the theoretical and practical aspects and the methodology of work in one or more fields of study.

Learning outcomes				
Expected results from this subject		Training and Learning		
		R	esults	
Realize calculations with scales, interpret views and flats	A2	B2	C5	D4
			C6	D8
Elaborate graphic documentation where represent the cultural heritage (plans 2D, models 3D)	A2	B2	C5	D4
employing tools CAD			C6	D8

Contents		
Topic		

Introduction to CAD representation	 Concept of drawing and drawing to scale. Standardization in the edition of plans: formats, folding, scale, drawing area, labeling, lines
Representation systems	 Fundamentals of representation systems: Dihedral, Dimensioned Plans, Axonometric, Conical. Interpretation of pieces in isometric; obtaining views; basics of dimension Reading and interpretation of plans in System of Dimensioned Plans
CAD software	 Fundamentals: interface, formats, units and drawing spaces Tools for CAD delineation and assistance with drawing Creation of texts in CAD Introduction and scaling of orthophotos in CAD Tools for editing plans: work with graphic windows. Printing in CAD.

Planning			
	Class hours	Hours outside the classroom	Total hours
Lecturing	4	0	4
Case studies	0	18	18
Problem solving	0	19	19
Autonomous problem solving	0	30	30
Seminars	1	0	1
Introductory activities	1	0	1
Problem and/or exercise solving	0	1	1
Systematic observation	0	1	1

^{*}The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
	Description
Lecturing	Exhibition of the main theoretical contents of the subject with the help of audiovisual media.
	Students will have the possibility of attending this session in the form of a videoconference.
Case studies	Analysis of a problem or real case, in order to know it, interpret it, solve it, generate hypotheses,
	diagnose it and go into alternative solution procedures, to see the application of theoretical
	concepts in reality. They will be used as a complement to the theoretical classes for self-learning.
Problem solving	Activities in which problems and / or exercises related to the subject are formulated.
Autonomous problem	The student must develop autonomously the analysis and resolution of problems and / or exercises.
solving	
Seminars	Realization of group and personalized tutorials, organization of forums, chats, debates, wikis, etc.
Introductory activities	Activities aimed at making contact and gathering information about the students, as well as
	presenting the subject. The file of the subject, objectives, calendar, evaluation criteria will be
	presented, as well as discussion forums and news and other environments in which the learning will
	unfold.

Personalized assistance					
Methodologies	Description				
Problem solving	Personal attention for solving problems				
Tests	Description				
Problem and/or exercise solving	Personal attention for solving problems				

Assessment						
	Description	Qualificat	ionTrair	ing and	l Learnii	ng Results
Problem and/or exercise solving	Jobs and Remote Delivery Projects	80	A2	B2	C5	D4
					C6	D8
Systematic observation	Active participation through the telematic means	20	A2	B2	C5	D4
					C6	D8

Other comments on the Evaluation

Sources of information	
Basic Bibliography	
Complementary Bibliography	

Recommendations