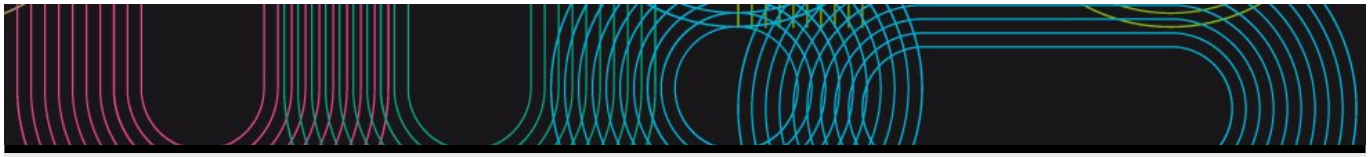

IDENTIFYING DATA				
CAD Techniques to Present Heritage				
Subject	CAD Techniques to Present Heritage			
Code	O02M143V03107			
Study programme	(*)Máster Universitario en Valoración, xestión e protección do patrimonio cultural			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	3	Mandatory	1st	1st
Teaching language	Spanish Galician			
Department				
Coordinator	Armesto González, Julia			
Lecturers	Armesto González, Julia Patiño Cambeiro, Faustino			
E-mail	julia@uvigo.es			
Web				
General description	(*)Esta materia ofrece unas nociones fundamentales sobre los sistemas de representación gráfica y su aplicación en la representación de bienes patrimoniales tanto a través de sus vistas como de otros métodos de 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 estado de conservación del patrimonio cultural inmueble y su entorno inmediato.			

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 Results
Realize calculations with scales, interpret views and flats	A2 B2 C5 C6 D4 D8

Elaborate graphic documentation where represent the cultural heritage (plans 2D, models 3D) employing tools CAD	A2 B2 C5 C6 D4 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 solving	The student must develop autonomously the analysis and resolution of problems and / or exercises.
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	Qualification	Training and Learning Results			
Problem and/or exercise solving	Jobs and Remote Delivery Projects	80	A2	B2	C5 C6	D4 D8
Systematic observation	Active participation through the telematic means	20	A2	B2	C5 C6	D4 D8

Other comments on the Evaluation

Sources of information

Basic Bibliography

Complementary Bibliography

Recommendations

Other comments

The teaching of the subject will be always of face-to-face telematic way, well was synchronous or asynchronous, using the eMoodle (FaiTic) educational platform and participating in the educational activities through multiple videoconference (e-meeting, Remote Campus). To be able to receive the teaching of effective way it si recommended , previously to the start of the matter, to consult the manual of access to the platform and to follow the technical specifications in order to assist to the remote sessions. It is indispensable that each student access to the educational platform of the subject previously to the beginning of the same.

Contingency plan

Description

=== EXCEPTIONAL PLANNING ===
Given the uncertain and unpredictable evolution of the health alert caused by COVID-19, the University of Vigo establishes an extraordinary planning that will be activated when the administrations and the institution itself determine it, considering safety, health and responsibility criteria both in distance and blended learning. These already planned measures guarantee, at the required time, the development of teaching in a more agile and effective way, as it is known in advance (or well in advance) by the students and teachers through the standardized tool.

=== ADAPTATION OF THE METHODOLOGIES ===
* Teaching methodologies maintained

* Teaching methodologies modified

* Non-attendance mechanisms for student attention (tutoring)

* Modifications (if applicable) of the contents

* Additional bibliography to facilitate self-learning

* Other modifications

=== ADAPTATION OF THE TESTS ===
* Tests already carried out
Test XX: [Previous Weight 00%] [Proposed Weight 00%]
...

* Pending tests that are maintained
Test XX: [Previous Weight 00%] [Proposed Weight 00%]
...

* Tests that are modified
[Previous test] => [New test]

* New tests

* Additional Information