



Teaching Guide

Identifying Data					2023/24
Subject (*)	Technologies Applied to Heritage		Code	614552005	
Study programme	Máster Universitario en Patrimonio Cultural Dixital				
Descriptors					
Cycle	Period	Year	Type	Credits	
Official Master's Degree	1st four-month period	First	Obligatory	5	
Language	Spanish				
Teaching method	Face-to-face				
Prerequisites					
Department	Ciencias da Computación e Tecnoloxías da InformaciónEnxeñaría de Computadores				
Coordinador	Gestal Pose, Marcos	E-mail	marcos.gestal@udc.es		
Lecturers	Bregains Rodriguez, Julio Claudio	E-mail	julio.bregains@udc.es		
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Web	campusvirtual.udc.gal				
General description	En esta materia se presentarán y estudiarán las nuevas tecnologías relacionadas con el acceso, visualización y presentación de datos e información en el campo del Patrimonio Cultural.				

Study programme competences

Code	Study programme competences
A7	CON7-Knowledge about the virtualization of cultural heritage: infographics, augmented reality, 3D visualization, geolocation, photointerpretation
A8	CON8-Knowledge of digital cartography/geographic information systems
A9	CON9-Knowledge about interactive products and apps applied to dissemination and heritage education
B1	HAB1-Be able to establish relationships to produce knowledge in the digital intelligence environment
B2	HAB2-Be able to apply knowledge in problem solving
B6	DES1-Be able to handle technological and computer tools applied to the digitization of heritage
C3	CB3. That students are able to integrate knowledge and face the complexity of making judgements based on information that, being incomplete or limited, includes reflections on the social and ethical responsibilities linked to the application of their knowledge and judgements
C4	CB4. That students know how to communicate their conclusions ?and the knowledge and ultimate reasons that support them? to specialized and non-specialized audiences in a clear and unambiguous way
C5	CB5. That students possess the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous
C6	CG1. Build, manage and disseminate digital heritage and the digital treatment of heritage in all its meanings
C7	CG2. Apply knowledge in the implementation of heritage projects in the digital environment
C8	CG3. Properly use the technological tools necessary for the acquisition, processing, management and dissemination of digital cultural heritage
C11	CG6. Create original content in the field of cultural heritage combining humanistic and technological knowledge
C12	CT1. Adapt the use and transfer of knowledge to new situations derived from technological change.
C13	CT2. Actively face the resolution of problems in the social and market environment.
C14	CT3. Acquire an ethical commitment to the various forms of communication in digital environments.

Learning outcomes

Learning outcomes	Study programme competences		
Coñecer e saber empregar as novas tecnoloxías no ámbito do Patrimonio Cultural.	AJ7	BJ2	CJ7
	AJ8	BJ6	CJ8
	AJ9		CJ13



Saber avaliar as novas tecnoloxías do futuro e o seu interese por mellorar a posta en valor do Patrimonio.			CJ3 CJ5 CJ14
Utilizar o potencial das novas tecnoloxías para mellorar procesos, actuacións, etc. en Patrimonio Cultural.		BJ1 BJ2	CJ4 CJ6 CJ11 CJ12

Contents	
Topic	Sub-topic
Bloque 1	Herramientas colaborativas Virtualización del patrimonio cultural
Bloque 2	Cartografía Digital Sistemas Geográficos de Información
Bloque 3	Desarrollo de productos interactivos y apps para la difusión y educación patrimonial
Bloque 4	Acceso y reutilización de datos. Web Semántica Web 3.0
Bloque 5	Teledetección

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
ICT practicals	B1 B2 B6 C3 C6 C7 C8 C13	15	30	45
Supervised projects	B1 B2 C4 C5 C7 C11 C12 C13 C14	5	20	25
Objective test	A7 A8 A9 B2 C3 C4	2	5	7
Guest lecture / keynote speech	A7 A8 A9 C14	15	30	45
Personalized attention		3	0	3

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

Methodologies	
Methodologies	Description
ICT practicals	Localización de recursos en Internet, probas de tecnoloxía e desenvolvemento de recursos dixitais
Supervised projects	Realización por parte do alumno dun traballo sobre temas da materia que será dirixido polo profesor nas fases de selección do traballo, formulación, desenvolvemento e presentación.
Objective test	Exame escrito de preguntas curtas e/ou proba sobre os contidos da materia
Guest lecture / keynote speech	Clases de contidos teóricos e prácticos na aula

Personalized attention	
Methodologies	Description
ICT practicals	Sesiões co alumnado para definir e traballar a marcha do traballo. Desenvolvemento de prácticas na aula para a creación de contidos dixitais As titorías realizaranse presencialmente ou a través de TEAMS

Assessment			
Methodologies	Competencies	Description	Qualification



ICT practicals	B1 B2 B6 C3 C6 C7 C8 C13	Traballo a través de ferramentas informáticas, desenvolvemento de programas, etc.	20
Supervised projects	B1 B2 C4 C5 C7 C11 C12 C13 C14	* Revisión de traballos tutelados propostos ó ou polo alumno Os traballos poderán ser individuais, en grupo ou para a súa realización nas clases TGR (en forma de tests tutelados).	30
Guest lecture / keynote speech	A7 A8 A9 C14	Asistencia activa ás sesións maxistras	10
Objective test	A7 A8 A9 B2 C3 C4	Examen teórico	40

Assessment comments

Para superar a materia, o alumno deberá obter unha puntuación mínima de 5 sobre 10 no resultado de combinar as puntuacións da proba obxectiva e do traballo dirixido. Para facer a media entre as dúas cualificacións, o alumno deberá obter unha nota mínima de 3,5 na proba obxectiva. De non obter esta cualificación mínima, a nota da materia será a correspondente á nota da proba obxectiva.

Estudantes con matrícula a tempo parcial e exención académica:

Indicarlle ao profesor a situación deste tipo de alumnos. A entrega dos traballos deberá realizarse nas datas establecidas para todo o alumnado.

Segunda oportunidade e chamada anticipada:

O alumno deberá realizar a proba obxectiva nestas convocatorias, sendo os criterios para obter a cualificación total da materia os indicados ao comezo deste apartado. Podes entregar o traballo tutelado, teñas ou non entregado previamente, e a nota do traballo entregado substituirá á que tiñas anteriormente neste apartado. En canto á nota obtida nos traballos de clase, manterase, non podendo recuperar a parte da nota que corresponda ao traballo realizado na clase.

Plaxio:

En calquera envío no que se detecte plaxio, o envío valorarase cun cero. O plaxio na proba obxectiva será sancionado segundo a normativa vixente da universidade.

Sources of information

Basic	
Complementary	

Recommendations

Subjects that it is recommended to have taken before

Subjects that are recommended to be taken simultaneously

Subjects that continue the syllabus

Other comments

(*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.