Universida_{de}Vigo

Subject Guide 2023 / 2024

IDENTIFYIN	<u> </u>					
	gement in Public Administrations					
Subject	Data Management					
	in Public					
	Administrations	,	,			
Code	P07G095V01412					
Study	Grado en Dirección					
programme	y Gestión Pública					
Descriptors	ECTS Credits	Choose	Year	Quadmester		
	6	Optional	4th	2nd		
Teaching	#EnglishFriendly					
language	Spanish					
	Galician					
Department						
Coordinator	Pérez Cota, Manuel					
Lecturers	Pérez Cota, Manuel					
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General	Digital content in public administration: differentiation between the types of data, information and knowledge					
description	based on their volume, type, transmission and storage	ge format; office o	lata managemer	nt tools; the flow of		
	information in public administration.					
	Tools and functionalities in data management in public administration: evolution of data types and the					
	interchangeability; transfers between platforms and systems; security and management of data, information and knowledge in digital formats.					
	Functionality of ICTs in public administration: evolution public administration; theory of the usability and main information and knowledge; digital security.					

Training and Learning Results

Code

- A1 Students will have shown they have sufficient knowledge and understanding of an area of study, starting after completion of general secondary education, and normally reaching a level of proficiency that, being mostly based on advanced textbooks, will also include familiarity with some cutting-edge developments within the relevant field of study.
- A2 Students will be able to apply their knowledge and skills in their professional practice or vocation and they will show they have the required expertise through the construction and discussion of arguments and the resolution of problems within the relevant area of study.
- A3 Students will be able to gather and interpret relevant data (normally within their field of study) that will allow them to have a reflection-based considered opinion on important issues of social, scientific and ethical nature.
- A4 Students will be able to present information, ideas, problems and solutions both to specialist and non-specialist audiences.
- A5 Students will acquire the learning skills that are required to pursue further studies with a high degree of independence.
- B1 Analysis, synthesis, problem-solving, decision-making, information- and time-management skills.
- B2 Organizing and planning their own professional careers in the best possible way.
- B3 Ability to work in teams and in multidisciplinary environments.
- B4 Commitment to ethical values and public service vocation.
- B6 To put their knowledge on public management and administration into practice.
- C14 Ability to use the information and communication technologies (ICT) that can be applied in public management.
- D1 To identify the meaning of, and to put into practice, gender perspectives in the different areas of knowledge and in one sprofessional practice, with the aim of contributing to the achievement of fairness and equality in society at large.
- D2 To be able to communicate, both orally and in writing, in the two official languages (Spanish and Galician) and in a foreign language.
- D4 To master the specific ICT techniques in their respective academic and professional fields.
- D5 To acquire independent learning skills.
- D6 To acquire independent learning skills.

Expected results from this subject					
Expected results from this subject		Training and Learning			
	·		Results	ults	
1. Recognise what means the management of the data in the public administrations.	A1	В1	C14	D1	
2. Identify the distinct types of data, being able to differentiate them and apply them in	A2	B2		D2	
the distinct fields of the public administration.	A3	В3		D4	
3. Describe the forms in that the distinct data can manage and with which	A4	B4		D5	
tools in the context of the public administration.	A5	В6		D6	
4. Integrate the distinct types of data in his surroundings of work, being able to delimit the					
management to make with them of safe and efficient form.					
5. Enumerate the distinct forms in that they can handle, visualise and transfer					
the data with the different tools TIC, doing upsetting in the security and the					
reliability.					
6. Apply the valid norms in subjects of security, anonymity, transfer of					
information and efficient utilisation of the data.					

information and efficient utilisation of the data.

7. Identify and resolve real or fictitious problems in relation with the use of the data in the public administration.

8. Use the distinct resources available TIC for the handle of the data and with his future perspectives in the public administration. New

Contents	
Topic	
Subject 1- Applications and use of the software	- Types of commercial and free Software
	- Types of office packages
	- Licences and types of licences
	- Software of packages and his relation and use
Subject 2- Information systems	-Data support
	-Formats and exchange of information
	-Transaction of data
Subject 3- Databases	-Definition of database
	-Types of databases
	-Normal forms basic and applied
	-Logical and physical design of a DB
	-Types of keys (primary, secondary)
	-Types of data of the fields
	-Object Oriented Data Bases
	-Persistence and security
Subject 4- Dababase Management Systems	-Database Management Systems (DBMS)
	-Ranking and main differences
	-Use of the DBMS
	-Handle a DBMs in a Public Administration
	-Data persistence
Subject 5- Handle of tables	-Creation of databases: tables and relations among them
	-Application of the normal forms
	-Keys election: primary and secondary)
	-Levels of connection of tables
	-Manipulation of data (insertion, erase and modification)
	-Look for information stored
Subject 6- Transfer of data	-Description of a data net
	-Internet, IP address and protocol types
	-Net elements and topologies
	-Public and personal Nets, proxy
	-Nets Interconnection: wired and wireless systems
	-Internet services (email, web, FTPs, browsers, telnet, searcher, etc.)
	-Basic control and security
	-Chats, messages and videoconference
Subject 7- Security	-Basic bases
	-Ranking of the security: physical-logical, active-passive
	-The security and the protection of data in the computers and in the nets
	-Cryptography, digital certification, electronic signature and electronic
	identity card

Planning			
	Class hours Hours outside the Total ho classroom		Total hours
Lecturing	14	36	50
Practices through ICT	20	42.5	62.5

Case studies	35	0	35	
Essay questions exam	0.5	0	0.5	
Problem and/or exercise solving	1	0	1	
Case studies	1	0	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	In the master class (whether physical or virtual) it is intended to explain concepts that, previously, had already been indicated to the students, so that participation is more lively and the concepts acquired more easily.
Practices through ICT	Practices will be developed (which can be physical or virtual) that allow the development, through the computer (computer) of concepts seen in the master class. It is intended that students can create their own systems based on a solid logic.
Case studies	Real problems of the profession are analyzed and solved.

Personalized assistance			
Methodologies	Description		
Practices through ICT	It is intended that students be able to solve problems with data management in Public Administrations.		
Case studies	Development of real or close to real cases.		

Assessment					
	Description	Qualification	Trair	ning a	nd
			Learnii	ng Re	sults
Essay	They will do a series of enabling questions to know the competences purchased	40	A1 B1	C14	D1
questions	by students (can be physical or virtual). RESULTS OF LEARNING: Ability in the		A2 B2		D2
exam	handle of the computers and operating systems managing data management		A3 B3		D4
	systems and the contained of the syllabus.		A4 B4		D5
			A5 B6		D6
Problem	They will do a series of exercises to know the competences purchased by	30	A1 B1	C14	D1
and/or	students (can be physical or virtual). RESULTS OF LEARNING: Ability in the		A2 B2		D2
exercise	handle of the computers and operating systems. Ability of handling data		A3 B3		D4
solving	management systems and of the contained of the syllabus.		A4 B4		D5
			A5 B6		D6
Case studies	They will do a series of case studies to know the competences purchased by	30	A1 B1	C14	D1
	students (can be physical or virtual). RESULTS OF LEARNING: Ability in the		A2 B2		D2
	handle of the computers and operating systems. Ability in the handle of		A3 B3		D4
	computer tools to data management systems in the public administrations and		A4 B4		D5
	of the contained of the syllabus.		A5 B6		D6

Other comments on the Evaluation

Regarding the continuous evaluation, the students will be able to do (depending on the course circumstances) a maximum of 3 evaluations that will have part questions and part problem solving with which they will be able to obtain the overall qualification. In case of waiving the continuous evaluation, the final exam will be of the overall subject, with part of the exam of questions and part of problem solving and use cases.

Sources of information Basic Bibliography Complementary Bibliography Microsoft Corporation, Microsoft Office, https://www.microsoft.com, 2023 The Document Foundation, Libre Office, https://es.libreoffice.org, 2023 Agencia Española de protección de datos, Protección de datos, https://www.aepd.es/es, 2023 Universidad Oberta de Catalunya, Bases de datos, https://www.uoc.edu/, 2023

Recommendations