		Teaching	Guide		
Identifying Data			2022/23		
Subject (*)	Biomedical knowledge management Code		614522022		
Study programme	Mestrado Universitario en Bioinformática para Ciencias da Saúde				
		Descrip	otors		
Cycle	Period	Yea	r	Туре	Credits
Official Master's Degre	gree 1st four-month period Second Optional		3		
Language	SpanishEnglish				
Teaching method	Hybrid				
Prerequisites					
Department	Ciencias da Computación e Tecno	oloxías da Inforr	naciónComputació	n	
Coordinador	Parapar López, Javier E-mail javier.parapar@udc.es			@udc.es	
Lecturers	Parapar López, Javier E-mail javier.parapar@udc.es			@udc.es	
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General description	In this course, we will explore the	theoretical conc	epts of information	management, as w	ell as the software and tools for
	obtaining, extracting, labelling, vis	sualising and exp	oloiting biomedical	knowledge. We will	explore the syntactic and semantic
	modelling of information, methods of obtaining and collecting information, methods of integration, extraction and			egration, extraction and	
	terminological labelling, standards	s for semantic re	presentation of bio	medical information	, and techniques for analysis and
	visualisation of knowledge				

Study programme competences
Study programme competences
CE6 - Ability to identify software tools and most relevant bioinformatics data sources, and acquire skill in their use
CB8 - Students to be able to integrate knowledge and deal with the complexity of making judgements from information that could be
incomplete or limited, including reflections on the social and ethical responsibilities linked to the application of their skills and judgments
CG1 -Search for and select the useful information needed to solve complex problems, driving fluently bibliographical sources for the field
CT3 - Use the basic tools of the information technology and communications (ICT) necessary for the exercise of their profession and
lifelong learning
CT8 - Rating the importance that has the research, innovation and technological development in the socio-economic and cultural progress
of society

Learning outcomes			
Learning outcomes		Study programme	
	COI	npeten	ces
Coñecer comprender e analizar os distintos modelos de xestión e explotación de coñecemento na área da de investigación	AJ6	BJ6	CJ3
biomédica, para a súa implementación e uso eficiente.			
Coñecer comprender e analizar as plataformas e ferramentas software para a implementación de técnicas que xestionen e		BJ3	
exploten información biomédica.		BJ6	
Planear e deseñar avaliacións de métodos, técnicas e sistemas existentes e capacidade de análise os resultados das		BJ3	CJ3
devanditas avaliacións.		BJ6	CJ8
Coñecer, comprender e aplicar correctamente os condicionantes éticos, de privacidade e confidencialidade dos datos e			CJ8
coñecemento tratado.			

	Contents
Topic	Sub-topic
Introduction	-
Standards for biomedical information	-
Resources for biomedical information	-
Exploitation of biomedical information	-
Ethical and legal aspects	-

	g		
Competencies	Ordinary class	Student?s personal	Total hours
	hours	work hours	
C3 C8	8	22	30
B3 B6	2	9	11
A6 B3 B6 C3 C8	0	1	1
A6 B3	11	22	33
	0		0
	C3 C8 B3 B6 A6 B3 B6 C3 C8	hours C3 C8 8 B3 B6 2 A6 B3 B6 C3 C8 0 A6 B3 11	hours work hours C3 C8 8 22 B3 B6 2 9 A6 B3 B6 C3 C8 0 1 A6 B3 11 22

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

	Methodologies
Methodologies	Description
Laboratory practice	Use of standards, resources and methods of exploitation to solve problems
Supervised projects	Tutored work proposed by the teacher and developed by students either in groups or individually.
Mixed	The mastery of theoretical and operative knowledge of the subject will be evaluated.
objective/subjective	
test	
Guest lecture /	Lessons about the contents of the subject by encouraging student participation
keynote speech	

	Personalized attention		
Methodologies	Description		
Laboratory practice	Laboratory practice The teacher will advise the particular problems of each student taking into account their degree of effort and participation		
Supervised projects	during the lessons		

		Assessment	
Methodologies	Competencies	Description	Qualification
Mixed objective/subjective	A6 B3 B6 C3 C8	Questions about acquired knowledge. Questions that involve reasoning based on the knowledge acquired to solve practical	50
Laboratory practice	C3 C8	problems of real interest. It is mandatory to reach 40% of the grade to pass the subject Correction and completeness of the practices proposed for the proper use of the explained tools. It is mandatory to reach 40% of the grade to pass the subject	40
Supervised projects	B3 B6	Follow up of the work and evaluation on the result achieved and individual participation of the students in the classes. It is mandatory to reach 40% of the grade to pass the subject	10

Assessment comments

For the second opportunity and not ordinary exams, both practice and theory will be evaluated in the mixed exam. If the minimum grade in the different tests is not reached, the maximum grade of the student will be 4.5. For part-time students, the grading scale and continuous assessment are the same as for other students. If plagiarism is detected the student will not pass the subject.

Sources of information		
Basic	- Pease, Cooper & Gururajn (2010). Biomedical Knowledge Management.	
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.