

		Teaching	g Guide		
	Identifyir	ng Data			2019/20
Subject (*)	Biomedical knowledge management		Code	614522022	
Study programme	Mestrado Universitario en Bioinformática para Ciencias da Saúde				
		Descr	iptors		
Cycle	Period	Ye	ar	Туре	Credits
Official Master's Degree	e 1st four-month period	Sec	ond	Optional	3
Language	SpanishEnglish				
Teaching method	Face-to-face				
Prerequisites					
Department	Ciencias da Computación e Tecr	noloxías da Infor	rmaciónComput	ación	
Coordinador	Parapar López, Javier E-mail javier.parapar@udc.es				
Lecturers	Parapar López, Javier E-mail javier.parapar@udc.es				
Web	http://www.dc.fi.udc.es/~parapar/				
General description	In this course, we will explore the	theoretical con	cepts of informa	tion management, as wel	II as the software and tools for
	obtaining, extracting, labelling, vi	sualising and ex	ploiting biomed	ical knowledge. We will e	xplore the syntactic and semantic
modelling of information, methods of obtaining and collecting information, methods of integration, extraction and			gration, extraction and		
	terminological labelling, standards for semantic representation of biomedical information, and techniques for analysis and visualisation of knowledge			and techniques for analysis and	

	Study programme competences / results
Code	Study programme competences / results
A6	CE6 - Ability to identify software tools and most relevant bioinformatics data sources, and acquire skill in their use
B3	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
B6	CG1 -Search for and select the useful information needed to solve complex problems, driving fluently bibliographical sources for the field
C3	CT3 - Use the basic tools of the information technology and communications (ICT) necessary for the exercise of their profession and
	lifelong learning
C8	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	
	competences /			
	results			
Coñecer comprender e analizar os distintos modelos de xestión e explotación de coñecemento na área da de investigación			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				
exploten información biomédica.				
Planear e deseñar avaliacións de métodos, técnicas e sistemas existentes e capacidade de análise os resultados das			CJ3	
devanditas avaliacións.			CJ8	
Coñecer, comprender e aplicar correctamente os condicionantes éticos, de privacidade e confidencialidade dos datos e			CJ8	
coñecemento tratado.				

Contents		
Торіс	Sub-topic	
Introduction	-	
Standards for biomedical information	-	
Resources for biomedical information	-	
Exploitation of biomedical information	-	



Ethical and legal aspects

	Plannir	ng		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Laboratory practice	C3 C8	8	22	30
Supervised projects	B3 B6	2	9	11
Mixed objective/subjective test	A6 B3 B6 C3 C8	0	1	1
Guest lecture / keynote speech	A6 B3	11	22	33
Personalized attention		0		0

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

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Methodologies			
Methodologies	Description		
Laboratory practice	Use of standards, resources and methods of exploitation to solve problems		
Supervised projects	ised 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	Methodologies Description			
Laboratory practice	boratory practice The teacher will advise the particular problems of each student taking into account their degree of effort and participation			
Supervised projects	vised projects during the lessons			

		Assessment	
Methodologies	Methodologies Competencies / Description		Qualification
	Results		
Mixed	A6 B3 B6 C3 C8	Questions about acquired knowledge.	50
objective/subjective		Questions that involve reasoning based on the knowledge acquired to solve practical	
test		problems of real interest. It is mandatory to reach 40% of the grade to pass the subject	
Laboratory practice	C3 C8	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	Basic - Pease, Cooper & amp; 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.