		Teaching Guide					
	Identifyir	ng Data			2020/21		
Subject (*)	Biomedical knowledge management Code			614522022			
Study programme	Mestrado Universitario en Bioinfo	rmática para Ciencias c	la Saúde				
		Descriptors					
Cycle	Period	Year		Туре	Credits		
Official Master's Degre	ee 1st four-month period	Second		Optional	3		
Language	SpanishEnglish				·		
Teaching method	Hybrid						
Prerequisites							
Department	Ciencias da Computación e Tecn	oloxías da Información(Computación				
Coordinador	Parapar López, Javier		E-mail	javier.parapar@	Qudc.es		
Lecturers	Parapar López, Javier		E-mail	javier.parapar@	Qudc.es		
Web	http://www.dc.fi.udc.es/~parapar/	,					
General description	In this course, we will explore the	theoretical concepts of	information r	nanagement, as we	ell as the software and tools for		
	obtaining, extracting, labelling, visualising and exploiting biomedical knowledge. We will explore the syntactic and semantic						
	modelling of information, methods of obtaining and collecting information, methods of integration, extraction and						
	terminological labelling, standard	s for semantic represen	tation of biom	nedical information,	, and techniques for analysis and		
	visualisation of knowledge						
Contingency plan	1. Modificacións nos contidos						
	-No se contemplan modificación de los contenidos						
	2. Metodoloxías						
	-No se contemplan modificaciones de metodologías, solo						
3. Mecanismos de atención personalizada ao alumnado							
	-Las tutorías serán online en cu	ıalquier caso					
	4. Modificacións na avaliación						
	-No se contemplan modicaciones en las formas de evaluar, solo cambiará el formato que podrá ser presencial u online						
	según la situación						
	5. Modificacións da bibliografía ou webgrafía:						
	-No se contemplan						

	Study programme competences
Code	Study programme competences
A6	CE6 - Ability to identify software tools and most relevant bioinformatics data sources, and acquire skill in their use
В3	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
В6	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		y progra	
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 Sub-topic
Introduction	-
Standards for biomedical information	-
Resources for biomedical information	-
Exploitation of biomedical information	-
Ethical and legal aspects	-

	Planning	g		
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	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.

	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	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	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	40
		explained tools. It is mandatory to reach 40% of the grade to pass the subject	



Supervised projects	B3 B6	Follow up of the work and evaluation on the result achieved and individual	10
		participation of the students in the classes. It is mandatory to reach 40% of the grade	
		to pass the subject	

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 & Coo
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.