



## Teaching Guide

Identifying Data					2017/18
Subject (*)	Biomedical knowledge management		Code	614522022	
Study programme	Mestrado Universitario en Bioinformática para Ciencias da Saúde				
Descriptors					
Cycle	Period	Year	Type	Credits	
Official Master's Degree	1st four-month period	Second	Optativa	3	
Language	SpanishEnglish				
Teaching method	Face-to-face				
Prerequisites					
Department	Computación				
Coordinador	Parapar López, Javier	E-mail	javier.parapar@udc.es		
Lecturers	Parapar López, Javier	E-mail	javier.parapar@udc.es		
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General description	In this course, we will explore the theoretical concepts of information management, as well 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, standards for semantic representation of biomedical information, and techniques for analysis and visualisation of knowledge				

## 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
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		
	AJ6	BJ6	CJ3
	AJ6	BJ3 BJ6	
		BJ3 BJ6	CJ3 CJ8
			CJ8

## Contents

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

## Planning



Methodologies / tests	Competencies	Ordinary class hours	Student's personal work hours	Total hours
Laboratory practice	C3 C8	8	22	30
Supervised projects	B3 B6	2	9	11
Mixed objective/subjective test	A6 B6 B3 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 objective/subjective test	The mastery of theoretical and operative knowledge of the subject will be evaluated.
Guest lecture / keynote speech	Lessons about the contents of the subject by encouraging student participation

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

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