		Teaching Guide		
	Identifying I	Data		2015/16
Subject (*)	Modelización Molecular		Code	610509006
Study programme	Mestrado en Investigación Química	e Química Industrial		
	·	Descriptors		
Cycle	Period	Year	Туре	Credits
Official Master's Degre	ee 1st four-month period	First	Optativa	3
Language	GalicianEnglish			
Teaching method	Face-to-face			
Prerequisites				
Department	Química Fundamental			
Coordinador		E-ma	ail	
Lecturers	Platas Iglesias, Carlos	E-ma	ail carlos.platas.ig	lesias@udc.es
Web				
General description				

	Study programme competences
Code	Study programme competences
A1	Define concepts, principles, theories and specialized facts of different areas of chemistry.
A2	Suggest alternatives for solving complex chemical problems related to the different areas of chemistry.
A4	Innovate in the methods of synthesis and chemical analysis related to the different areas of chemistry
A7	Operate with advanced instrumentation for chemical analysis and structural determination.
A9	Promote innovation and entrepreneurship in the chemical industry and in research.
B2	Students should apply their knowledge and ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary)
	contexts related to their field of study.
B7	Identify information from scientific literature by using appropriate channels and integrate such information to raise and contextualize a
	research topic
B10	Use of scientific terminology in English to explain the experimental results in the context of the chemical profession
B14	Demonstrate an attitude of respect for the opinions, values, behaviors and practices of others.

Learning outcomes		
Learning outcomes	Study programme	
	competences	
	AC1	
	AC2	
	AC7	
	AC7	BC2
	AC4	
	AC4	
	AC1	
		BC7
		BC10
		BC7
		BC10
		BC14
		BC2
		BC2
		BC7
	AC1	
	AC2	



AC4	
AC9	
AC7	

Contents		
Topic	Sub-topic	

	Plannin	g		
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
ICT practicals	A7 B7 B10 B14	17	6	23
Supervised projects	A2 A4 A9	0	25	25
Mixed objective/subjective test	A1 B10	2	8	10
Guest lecture / keynote speech	A1 B2	4	12	16
Personalized attention		1	0	1
(*)The information in the planning table is for	guidance only and does not	take into account the	heterogeneity of the stud	dents.

	Methodologies
Methodologies	Description
ICT practicals	
Supervised projects	
Mixed	
objective/subjective	
test	
Guest lecture /	
keynote speech	

	Personalized attention
Methodologies	Description
Supervised projects	

Assessment			
Methodologies	Competencies	Description	Qualification
Supervised projects	A2 A4 A9		40
Mixed	A1 B10		30
objective/subjective			
test			
ICT practicals	A7 B7 B10 B14		30

Assessment comments	



	Sources of information
- F. Jensen (2007). Introduction to Computational Chemistry. Wiley	
	- J. B. Foresman, A. Frisch, (1996). Exploring Chemistry with Electronic Structure Methods. Gaussian Inc.
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.