Teaching Guide				
Identifying Data				2017/18
Subject (*)	Practical Academic Training		Code	610509136
Study programme	Mestrado Universitario en Investigación Química e Química Industrial (Plan 2017)			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	Yearly	First	Optativa	12
Language	Spanish			
Teaching method	Face-to-face			
Prerequisites				
Department				
Coordinador	Fernandez Sanchez, Jesus Jose	E-mail	jesus.fernandezs@udc.es	
Lecturers	Fernandez Sanchez, Jesus Jose	E-mail	jesus.fernandezs@udc.es	
Web	Para más información: http://miiquimica.webnode.es/			
General description	A asignatura ?Practicas Académicas? consistirá nun programa deseñado específicamente para cada alumno, que se corresponderá coa especialidade ou selección persoal de asignaturas do ?Perfil Investigador? que curse, correspondentes óslos modulos M2-M6 do mismo			

Study programme competences	
Code	Study programme competences
A3	Innovate in the methods of synthesis and chemical analysis related to the different areas of chemistry
A5	Properly assess risks and environmental and socioeconomic impacts associated with special chemicals
A7	Operate with advanced instrumentation for chemical analysis and structural determination.
A8	Analyze and use the data obtained independently in complex laboratory experiments and relating them with the chemical, physical or biological appropriate techniques, including the use of primary literature sources
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.
B3	Students should be able to integrate knowledge and handle complexity, and formulate judgments based on information that was incomplete or limited, include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgments.
B4	Students should be able to communicate their conclusions, and the knowledge and the reasons that support them to specialists and non-specialists in a clear and unambiguous manner
B5	Students must possess learning skills to allow them to continue studying in a way that will have to be largely self-directed or autonomous.
B6	Innovate in the different areas of chemistry, demonstrating initiative and entrepreneurship
B8	Evaluate responsibility in the management of information and knowledge in the field of Industrial Chemistry and Chemical Research
B9	Demonstrate ability to analyze, describe, organize, plan and manage projects
B10	Use of scientific terminology in English to explain the experimental results in the context of the chemical profession
B11	Apply correctly the new technologies to gather and organize the information to solve problems in the professional activity.
B12	Being able to work in a team and adapt to multidisciplinary teams.
C1	CT1 - Elaborar, escribir e defender publicamente informes de carácter científico e técnico
C2	CT2 - Traballar en equipo e adaptarse a equipos multidisciplinares.
C3	CT3 - Traballar con autonomía e eficiencia na práctica diaria da investigación ou da actividade profesional.
C4	CT4 - Apreciar o valor da calidade e mellora continua, actuando con rigor, responsabilidade e ética profesional.
C5	CT5 - Demostrar unha actitude de respecto polas opinións, valores, comportamentos e prácticas doutros

Learning outcomes	
Learning outcomes	Study programme competences

	AC3 AC7	BC2 BC3 BC4 BC5 BC6 BC9 BC10 BC11	CC1 CC2 CC4
	AC7 AC8	BC2 BC3 BC5 BC8 BC9 BC10	CC3
	AC5	BC3 BC8 BC12	CC4 CC5

Contents	
Topic	**Sub-topic**
Técnicas instrumentais analíticas e de determinación estrutural e/ou técnicas de síntese e formulación de productos químicos	O programa formativo dependerá da especialidade elexida polo alumno.

Planning				
Methodologies / tests	**Competencies**	**Ordinary class hours**	**Student?s personal work hours**	**Total hours**
Supervised projects	A5 B3 B4 B8 B10 C3 C1	28	14	42
Laboratory practice	A3 A7 A8 B2 B3 B4 B5 B6 B8 B9 B10 B11 B12 C2 C3 C4 C5	200	40	240
Guest lecture / keynote speech	B3 B9 C4 C5	6	6	12
Personalized attention		6	0	6
(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				

Methodologies	
Methodologies	**Description**
Supervised projects	Plantexamento de casos prácticos
Laboratory practice	Aplicar a casos concretos técnicas instrumentais analíticas e de determinación estructural e/ou técnicas de síntese e formulación de productos químicos
Guest lecture / keynote speech	Exposición de contidos

Personalized attention	
Methodologies	**Description**
Guest lecture / keynote speech Supervised projects Laboratory practice	Tutorías programadas pollo profesor e coordinadas polo Centro. Estarán orientadas á resolución de dúbidas sobre os contidos da asignatura e a preparación dos problemas

Assessment			
Methodologies	Competencies	Description	Qualification
Guest lecture / keynote speech	B3 B9 C4 C5		0
Supervised projects	A5 B3 B4 B8 B10 C3 C1		0
Laboratory practice	A3 A7 A8 B2 B3 B4 B5 B6 B8 B9 B10 B11 B12 C2 C3 C4 C5		0

Assessment comments

Sources of information	
Basic	
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
Recoméndase consultar a páxina web do master (http://miiquimica.webnode.es/) na que se fará publica toda a información complementaria da asignatura.

(*)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.