



Teaching Guide

Teaching Guide				
Identifying Data				2023/24
Subject (*)	Work Placement		Code	610G04046
Study programme	Grao en Nanociencia e Nanotecnoloxía			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	2nd four-month period	Fourth	Obligatory	6
Language	SpanishGalicianEnglish			
Teaching method	Face-to-face			
Prerequisites				
Department				
Coordinador		E-mail		
Lecturers	,	E-mail		
Web				
General description	<p>The students will study external professional practices, in companies or institutions, by a 6 ECTS. The Faculty of Sciences has wide experience in the management of this type of activity. The student will have to: 1) #prpers Had surpassed at least 120 credits ECTS, that have to incluir all them of basic training. 3) Surpass the selective process that could establish . The two first requirements will have to gathered to the closing of the announcement of practices, not to computing the credits obtained with posterioridade. They will not be able to be beneficiary of stays in practices the students that keep any relation contratual with the corresponding company or entity, except authorization obtained pursuant to the internal rule of the UDC. Only they will recognize academically those stays that develop in a square offered or approved by the Faculty and have been realized under the titoría of a titled upper belonging to the company, public organism of investigation or institution equiparable that offer the square, preferiblemente of the even field of the qualifications of the student. Them / the students will have to obtain a favourable report of the/of the titores academic and professional envelope to activity realized, as to the normative of the UDC.</p>			

Study programme competences

Code	Study programme competences
A2	CE2 - Aplicar los conceptos, principios, teorías y hechos fundamentales relacionados con la Nanociencia y Nanotecnología a la resolución de problemas de naturaleza cuantitativa o cualitativa.
A3	CE3 - Reconocer y analizar problemas físicos, químicos, matemáticos, biológicos en el ámbito de la Nanociencia y Nanotecnología, así como plantear respuestas o trabajos adecuados para su resolución, incluyendo el uso de fuentes bibliográficas.
A4	CE4 - Desarrollar trabajos de síntesis y preparación, caracterización y estudio de las propiedades de materiales en la nanoescala.
A6	CE6 - Manipular instrumentación y material propios de laboratorios para ensayos físicos, químicos y biológicos en el estudio y análisis de fenómenos en la nanoescala.
A8	CE8 - Aplicar las normas generales de seguridad y funcionamiento de un laboratorio y las normativas específicas para la manipulación de la instrumentación y de los productos y nanomateriales.
A9	CE9 - Evaluar correctamente los riesgos sanitarios y de impacto ambiental asociados a la Nanociencia y la Nanotecnología.
A10	CE10 - Comprender la legislación en el ámbito del conocimiento y la aplicación de la Nanociencia y Nanotecnología. Aplicar principios éticos en este marco.
B2	CB2 - Que los estudiantes sepan aplicar sus conocimientos a su trabajo o vocación de una forma profesional y posean las competencias que suelen demostrarse por medio de la elaboración y defensa de argumentos y la resolución de problemas dentro de su área de estudio
B3	CB3 - Que los estudiantes tengan la capacidad de reunir e interpretar datos relevantes (normalmente dentro de su área de estudio) para emitir juicios que incluyan una reflexión sobre temas relevantes de índole social, científica o ética
B4	CB4 - Que los estudiantes puedan transmitir información, ideas, problemas y soluciones a un público tanto especializado como no especializado
B5	CB5 - Que los estudiantes hayan desarrollado aquellas habilidades de aprendizaje necesarias para emprender estudios posteriores con un alto grado de autonomía
B9	CG4 - Trabajar de forma autónoma con iniciativa.
B10	CG5 - Trabajar de forma colaborativa.



B11	CG6 - Comportarse con ética y responsabilidad social como ciudadano/a y como profesional.
B12	CG7 - Comunicarse de manera efectiva en un entorno de trabajo.
C1	CT1 - Expresarse correctamente, tanto de forma oral como escrita, en las lenguas oficiales de la comunidad autónoma
C2	CT2 - Dominar la expresión y la comprensión de forma oral y escrita de un idioma extranjero
C3	CT3 - Utilizar las herramientas básicas de las tecnologías de la información y las comunicaciones (TIC) necesarias para el ejercicio de su profesión y para el aprendizaje a lo largo de su vida
C4	CT4 - Desarrollarse para el ejercicio de una ciudadanía respetuosa con la cultura democrática, los derechos humanos y la perspectiva de género
C5	CT5 - Entender la importancia de la cultura emprendedora y conocer los medios al alcance de las personas emprendedoras
C6	CT6 - Adquirir habilidades para la vida y hábitos, rutinas y estilos de vida saludables
C7	CT7 - Desarrollar la capacidad de trabajar en equipos interdisciplinarios o transdisciplinarios, para ofrecer propuestas que contribuyan a un desarrollo sostenible ambiental, económico, político y social.
C8	CT8 - Valorar la importancia que tiene la investigación, la innovación y el desarrollo tecnológico en el avance socioeconómico y cultural de la sociedad
C9	CT9 - Tener la capacidad de gestionar tiempos y recursos: desarrollar planes, priorizar actividades, identificar las críticas, establecer plazos y cumplirlos

Learning outcomes			
Learning outcomes		Study programme competences	
Improve in the knowledge of the professional environment and capacity to apply the academic knowledge the professional environment.		A2	B2 C1
		A3	B3 C2
		A4	B4 C3
		A6	B5 C4
		A8	B9 C5
		A9	B10 C6
		A10	B11 C7
			B12 C8
			C9

Contents	
Topic	Sub-topic
According to the work plan agreed with the company or institution for each student.	According to the work plan agreed with the company or institution for each student.

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student's personal work hours	Total hours
Summary	A2 A3 A9 A10 B2 B3 B4 B12 C1 C2	0	15.5	15.5
Supervised projects	A2 A3 A4 A6 A8 A9 A10 B2 B5 B9 B10 B11 B12 C3 C9	132	0	132
Personalized attention		2.5	0	2.5
(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				

Methodologies	
Methodologies	Description



Summary	<p>Report of the work done during the internship period. It must consist of the following parts and by the mentioned order:</p> <ol style="list-style-type: none">1. INDEX (It must collect the documents of which the report consists).2. STUDENT'S DATA<ol style="list-style-type: none">2.1 Brief information about the student (surname, name, ID number, contact address, telephone numbers and e-mail address).2.2 Indicate whether the report has been reviewed by the company and the confidentiality conditions required by the company.3. COMPANY INFORMATION<ol style="list-style-type: none">3.1 Brief information about the company (name, location, sector of activity, organization chart, number of employees, etc...).4. SUMMARY OF THE INTERNSHIP<ol style="list-style-type: none">4.1 Summary of the work developed by the student during the internship period.5. ACTIVITIES CARRIED OUT<ol style="list-style-type: none">5.1 Objective of the internship. In this section should be collected the objectives pursued with the work.5.2 Work assigned. Theoretical and experimental basis of the different activities carried out during the internship period, taking into account, if applicable, the professional background to which he/she is bound.5.3 Time distribution. Distribution of the tasks performed, specifying their duration and the units or Departments in which they were performed.5.4 Training received. Courses, computer programs, seminars, lectures, etc...5.5 Level of integration within the department and staff relationships.6. CONCLUSIONS<ol style="list-style-type: none">6.1 Adequacy of the teachings received in the Faculty for the performance of the internship.6.2 Personal evaluation of the learning achieved during the internship.6.3 Assessment of the level of integration within the department and relationships with staff.6.4 Declaration of responsibility of the student (model Annex I).7. BIBLIOGRAPHY AND SOURCES OF INFORMATION (Bibliography cited in the text, including electronic resources)
Supervised projects	<p>The company or institution will appoint a tutor, who must be a graduate, preferably with the same degree or degrees related to the student's, and who will be in charge of the following functions:</p> <ol style="list-style-type: none">1. Provide the Center with a brief description of the work to be performed by the student, indicating the specific knowledge and skills that the student must have to carry it out and indicate the training that the student will acquire during the performance of the work.2. To guide the student during the realization of the work.3. To elaborate a final report, addressed to the Dean's Office of the Faculty in which the student will evaluate the degree of achievement reached by the student. <p>The student will also have an academic tutor in the Faculty, who will review the report issued by the student, making in writing the pertinent recommendations and punctuations to correct and improve it. In view of these recommendations, the student will review the document and will deliver it to the students' office together with an application requesting its evaluation in order to correct and improve it. In view of these recommendations, the student will review the document and will deliver it to the Students' Office together with an application requesting its evaluation.</p>



Personalized attention

Methodologies	Description
Supervised projects	Personalized supervision will be used to follow in detail the activities and evolution of the student, contributing to continuous assessment.

Assessment

Methodologies	Competencies	Description	Qualification
Supervised projects	A2 A3 A4 A6 A8 A9 A10 B2 B5 B9 B10 B11 B12 C3 C9	In order to obtain academic recognition, provided that the stay fulfills the conditions specified in the regulations, the student must submit to the Dean's Office of the Center a detailed report of the work and activities carried out. Such report shall be prepared according to a model (ANNEX VII). The academic tutor will review the report issued by the student, making the pertinent recommendations and clarifications to correct and improve it. In view of these recommendations, the student will review the document and submit it to the Administration of the Faculty of Sciences together with a request for its evaluation.	50
Summary	A2 A3 A9 A10 B2 B3 B4 B12 C1 C2	The tutor appointed by the company or institution, who must be a senior graduate, preferably of the same degree or degrees related to that of the student, will prepare a final report, addressed to the Dean's Office of the Center (ANNEX IV), evaluating the degree of achievement reached by the student.	50

Assessment comments

The work done during the internship and the report on the internship will be evaluated as a whole. Students are recommended to consult the evaluation rubric published on the Center's website. Only those students who complete the period of work in the company/institution (supervised work) and submit the summary report of the tasks for evaluation may obtain a grade higher than 4.5 (out of 10). Students who do not complete the period of work in the company/institution will receive a qualification proportional to the hours worked, always lower than 4.5 (out of 10). In the case of not being able to complete the work period due to force majeure, the student may plead before the dean of the center, who may suspend the effect of this evaluation rule.

Sources of information

Basic	En cada caso, o tutor/a na empresa ou institución e o tutor/a académico/a suxerirán as fontes de información más acaídas ao plan de traballo.
Complementary	

Recommendations

Subjects that it is recommended to have taken before

Subjects that are recommended to be taken simultaneously

Final Year Dissertation/610G04047

Subjects that continue the syllabus

Other comments

It is advisable to try to take the pre-professional internship during the summer prior to the start of the fourth year, so that the second semester will be clearer in terms of schedule.

(*)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.