



Teaching Guide				
Identifying Data				2020/21
Subject (*)	Research Lab Internship	Code	730497242	
Study programme	Mestrado Universitario en Enxeñaría Industrial (plan 2018)			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	1st four-month period	Second	Optional	4.5
Language	SpanishGalician			
Teaching method	Face-to-face			
Prerequisites				
Department	Enxeñaría Naval e Industrial			
Coordinador	González Castro, Manuel Jesús	E-mail	manuel.gonzalez@udc.es	
Lecturers	González Castro, Manuel Jesús	E-mail	manuel.gonzalez@udc.es	
Web	https://moodle.udc.es/			
General description	Realización de prácticas nun grupo de investigación universitario, colaborando o formándose en tarefas de investigación e desenvolvemento no ámbito da súa titulación.			
Contingency plan	<ol style="list-style-type: none"> 1. Modifications to the contents 2. Methodologies <ul style="list-style-type: none"> *Teaching methodologies that are maintained *Teaching methodologies that are modified 3. Mechanisms for personalized attention to students 4. Modifications in the evaluation <ul style="list-style-type: none"> *Evaluation observations: 5. Modifications to the bibliography or webgraphy 			

Study programme competences / results	
Code	Study programme competences / results
B1	CB6 - Possess and understand knowledge that provides a basis or opportunity to be original in the development and / or application of ideas, often in a research context.
B2	CB7 - That students know how to apply the knowledge acquired and their ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their area of study.
B3	CB8 - That students are able to integrate knowledge and face the complexity of making judgments based on information that, being incomplete or limited, includes reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments.
B4	CB9 - That the students know how to communicate their conclusions -and the knowledge and ultimate reasons that sustain them- to specialized and non-specialized audiences in a clear and unambiguous way.
B5	CB10 - That students have the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous.
B6	G1 - Have adequate knowledge of the scientific and technological aspects in Industrial Engineering.
B13	G8 - Apply the knowledge acquired and solve problems in new or unfamiliar environments within broader and multidisciplinary contexts.
B14	G9 - Be able to integrate knowledge and face the complexity of making judgments based on information that, being incomplete or limited, includes reflections on social and ethical responsibilities linked to the application of their knowledge and judgments.
B15	G10 - Knowing how to communicate the conclusions -and the knowledge and ultimate reasons that sustain them- to specialized and non-specialized publics in a clear and unambiguous way.



B16	G11 - Possess the learning skills that allow to continue studying in a self-directed or autonomous way.
C1	ABET (a) - An ability to apply knowledge of mathematics, science, and engineering.
C3	ABET (c) - An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
C6	ABET (f) - An understanding of professional and ethical responsibility.
C7	ABET (g) - An ability to communicate effectively.
C8	ABET (h) - The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
C9	ABET (i) - A recognition of the need for, and an ability to engage in life-long learning.
C11	ABET (k) - An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Learning outcomes		
Learning outcomes	Study programme competences / results	
Coñecemento dun grupo de investigación real e capacidade para integrarse na estrutura do mesmo para desenvolver nela unha tarefa de investigación no ámbito da Enxeñería Industrial.	BJ1 BJ2 BJ3 BJ4 BJ5 BJ6 BJ13 BJ14 BJ15 BJ16	CJ1 CJ3 CJ6 CJ7 CJ8 CJ9 CJ11

Contents	
Topic	Sub-topic
Introducción á investigación	Metodoloxía de investigación. Fontes de información. Producción científica. Propiedade intelectual.
Traballo de investigación tutelado	Introducción. Materiais e métodos. Resultados. Discusión. Conclusións.

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Supervised projects	B1 B2 B3 B4 B5 B13 B15 B14 B16 B6 C1 C3 C6 C7 C8 C9 C11	27	75	102
Oral presentation	B1 B2 B3 B4 B5 B13 B15 B14 B16 B6 C1 C3 C6 C7 C8 C9 C11	0.5	4	4.5
Guest lecture / keynote speech	B1 B4 B5 B15 B16	3	3	6
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
Supervised projects	Realización dun traballo de investigación nun grupo de investigación universitario no ámbito da Enxeñería Industrial. Ao inicio do curso os grupos de investigación ofertarán temas de traballo, indicando o tutor responsable. Os estudantes elixirán o tema de traballo de entre os propostos polos grupos de investigación. O tutor preparará un proxecto formativo que asinarán tutor, estudante e coordinador da materia. Ao final do curso o tutor entregará un informe valorando o traballo do estudante.
Oral presentation	Ao final do curso o estudante entregará unha memoria do traballo realizado e realizará unha presentación do mesmo ante un tribunal avaliador.
Guest lecture / keynote speech	Seminario impartido ao principio do curso para expoñer os contidos do tema "Introducción á investigación".

Personalized attention

Methodologies	Description
Supervised projects	Os tutores dos traballos de investigación realizarán un seguimento do progreso dos estudantes nos horarios de titoría semanais. Poderanse realizar titorías presenciais ou non presenciais por medios telemáticos (correo electrónico, teléfono, Teams).

Assessment

Methodologies	Competencies / Results	Description	Qualification
Supervised projects	B1 B2 B3 B4 B5 B13 B15 B14 B16 B6 C1 C3 C6 C7 C8 C9 C11	Ao final do período lectivo do cuatrimestre o tutor entregará un informe avaliando o traballo do estudante. Este informe conterá unha cualificación nunha escala de 0 a 10, que terá unha ponderación do 50% da nota final da materia.	50
Oral presentation	B1 B2 B3 B4 B5 B13 B15 B14 B16 B6 C1 C3 C6 C7 C8 C9 C11	Ao final do período lectivo do cuatrimestre o estudante entregará unha memoria do traballo realizado. O día do exame o estudante realizará unha presentación do traballo ante un tribunal avaliador, que será nomeado polo coordinador da materia. O tribunal avaliador cualificará a memoria e a presentación nunha escala de 0 a 10, e esa cualificación terá unha ponderación do 50% da nota final da materia.	50

Assessment comments

Para aprobar a materia será imprescindible que o estudante: Entregue a memoria en tempo e forma. Realice a presentación do traballo ante o tribunal avaliador. Aprobe a avaliación polo tutor e a avaliación polo tribunal avaliador (cualificación maior ou igual a 5 sobre 10 en ambas avaliacións). Non se admite a dispensa académica. A avaliación en 2ª oportunidade será igual que en 1ª oportunidade.
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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

A entrega dos traballos documentais que se realicen nesta materia realizarase a través de Moodle, en formato dixital sen necesidade de imprimilos.

(*)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.