Universida_{de}Vigo

Subject Guide 2023 / 2024

IDENTIFYING Projects	G DATA				
Subject	Projects				
Code	V09G291V01415				
Study	Grado en		,		
programme	Ingeniería de la				
1 - 3	Energía				
Descriptors	ECTS Credits	Choose	Year	Quadmester	
	6	Mandatory	4th	2nd	
Teaching	#EnglishFriendly				
language	Spanish				
	Galician				
	English				
Department					
Coordinator	Goicoechea Castaño, María Iciar				
Lecturers	Goicoechea Castaño, María Iciar				
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Web	http://moovi.uvigo.gal				
General	English Friendly subject: International students may				
description					
	c) exams and assessments in English				

Training and Learning Results

Code

- A1 That the students demonstrate to possess and understand knowledge in an area of study that is part of the general education (second level), and often found at a level that, although based on advanced textbooks, also includes some aspects that involve knowledge from the avant-garde of the field of study
- A2 That the students know how to apply their knowledge to their work or vocation in a professional way and that they possess the competences that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their area of study
- A3 That the students have the capability to gather and interpret relevant data (usually within their area of study) to issue judgments that include a reflection on relevant social, scientific or ethical issues
- A4 That the students can transmit information, ideas, problems and solutions to a specialized and non-specialized audience
- A5 That the students develop those learning capabilities necessary to undertake further studies with a high degree of autonomy.
- B2 Ability to develop a project to completion in any field of this branch of engineering, combining appropriately the knowledge acquired, consulting the relevant sources of information, carrying out any required inquiries, and joining interdisciplinary work teams.
- B3 To suggest and develop practical solutions, using the relevant theoretical knowledge, to phenomena and problemssituations of ordinary reality that are specific to engineering, developing appropriate strategies.
- B4 To foster collaborative working, communication, organization and planning skills, along with the ability to take responsibilities in a multilingual, multidisciplinary work environment that promotes education for equality, peace and respect for fundamental rights.
- B5 To be familiar with the relevant sources of information, including constant updating, in order to practice one sprofession competently, accessing all the present and future tools of information search, constantly adapting to technological and social changes.
- C19 Knowledge of the methodology, management and organization of projects.
- D1 To be familiar with and to be able to use the legislation applicable in this sector, to be acquainted with the social and business environments and to be able to deal with the relevant administration, integrating this knowledge into the drawing up of engineering projects and into the implementation of every aspect of their professional work.
- D2 Ability to organize, understand, assimilate, produce and handle all the relevant information to develop their professional work, using appropriate computing, mathematics, physics tools, etc. when these are required.

Expected results from this subject

Expected results from this subject		Training and Learning			
		R	esults		
Comprise the basic appearances of the realisation of projects by part of the engineer, his		B1	C2	D1	
professional competitions, duties and responsibilities		B4	C4	D2	
		В6	C12		
		В7	C19		
		В9	C21		
		B11	C25		
		B18			
Know the technological base on which support the technical solutions to apply in each Project			C19	D1	
Know the applicable legislation in the editorial and processing of Projects, as well as the diverse		B5	C19	D1	
administrative procedures of permission					
Know the particular protocol of realisation of a Mining Project, an Industrial Project, an Energetic		В3		D1	
Project, and a Project of Infrastructures, in the fields competences of the degree				D2	
Know the new computer technicians for the editorial and execution of Projects		B2		D2	
		B4			
Purchase consciousness on the environmental conditionings and of security and health in the	A3		C19	D1	
editorial and execution of Projects				D2	
Purchase a solid knowledge of how make correct and real budgets, and his importance like tool of			C19	D2	
management of the Project					

Contents	
Topic	
1. Introduction and presentation of the matter	1.1 Presentation of the course
	1.2 Educational Guide
2. The engineer as an author, executor, or	2.1 Competitions, responsibilities, insurances and fees
supervisory of a project	
3. Basic documents that conform a project	3.1 Memory, planes, fold of conditions, budget.
	3.2 Applicable Legislation for the editorial and execution of a mining
	project, of infrastructures, industrial, or energetic.
4. Methodology of realisation of a mining project,	
of infrastructures, industrial, or energetic.	calculations, and annexes.
	4.2 The planes: situation, urbanism planning, design, constructive details,
	4.3 environmental Conditionings, security and health. Topography and
	draftsmanship.
	4.4 I Specifications: legal importance and content according to the type of project.
	4.5 Budget: measurements, unitary prices, prices decomposed of unit of
	work, budget by items, presupposed of material execution, presupposed of
	execution by hires.
5. Administrative processing of the projects	5.1 sectorial Legislation, urbanísm and environmental. Substantive organ,
	environmental organ.
	5.2 municipal Licence: licence of work and licence of activity. Visas
6. Execution of the projects.	6.1 Direction facultative, direction of work
	6.2 Methodologies for managing projects

Planning			
	Class hours	Hours outside the classroom	Total hours
Lecturing	34	0	34
Practices through ICT	10	10	20
Project based learning	0	30	30
Mentored work	6	17.5	23.5
Report of practices, practicum and exte	rnal practices 0	10	10
Objective questions exam	2	20	22
Presentation	0.5	10	10.5
*The information in the planning table i	s for quidance only and does no	t take into account the het	erogeneity of the stude

*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
	Description
Lecturing	Exhibition by the teacher of the contents of the matter. Guidelines of the work to make during the course: exercises or project to make by the students
Practices through ICT	Realisation of practices of projects with the software that finds installed in the computer classrooms of the centre. They will give the guidelines for the preparation of the deliverables or reports of practices.

Project based learning	Realisation of a collaborative project . The number of members in each group will be decided at the
	beginning of the course in function of the number of students.
Mentored work	Mentoring classes for the tracking of the Project

Personalized assistance			
Methodologies	Description		
Practices through ICT	Personalised attention to the students in the computer practices		
Project based learning	Realisation of follow-up in group of the advance of the project in the cases that proceed		

Assessment					
	Description	Qualification		raining arning R	
Report of practices, practicum and external practices	Deliverables (Report of practices) to make in the course along the matter like result of the works made in class Expected results from the subject: Comprise the basic appearances of the realisation of projects by part of the engineer, his professional competitions, duties and responsibilities. Know the applicable legislation in the editorial and processing of Projects, as well as the diverse administrative procedures of permission Know the particular protocol of realisation of a Mining Project, an Industrial Project, an Energetic Project, and a Project of Infrastructures, in the fields competences of the degree Know the new computer technicians for the editorial and execution of Projects Purchase consciousness on the environmental conditionings and of security and health in the editorial and execution of Projects Purchase a solid knowledge of how make correct and real budgets, and		A2 A3 A5	B2 B3	D2
Objective questions exam	his importance like tool of management of the Project Examination type test and/or of short answer. Expected results from the subject: Comprise the basic appearances of the realisation of projects by part of the engineer, his professional competitions, duties and responsibilities. Know the technological base on which support the technical solutions to apply in each Project Know the applicable legislation in the editorial and processing of Projects, as well as the diverse administrative procedures of permission Know the particular protocol of realisation of a Mining Project, an Industrial Project, an Energetic Project, and a Project of Infrastructures, in the fields competences of the degree Purchase consciousness on the environmental conditionings and of security and health in the editorial and execution of Projects Purchase a solid knowledge of how make correct and real budgets, and his importance like tool of management of the Project	40	A1 A2		9 D1
Presentation	Oral presentation of the works in group. It values so much the content like the exhibition Expected results from the subject: Know the particular protocol of realisation of a Mining Project, an Industrial Project, an Energetic Project, and a Project of Infrastructures, in the fields competences of the degree Know the new computer technicians for the editorial and execution of Projects Purchase consciousness on the environmental conditionings and of security and health in the editorial and execution of Projects Purchase a solid knowledge of how make correct and real budgets, and his importance like tool of management of the Project	20	_A4 _	B4	D2

Other comments on the Evaluation

Students, to be able to pass the subject both in first and second chance, can opt for continuous evaluation or global evaluation. Once one month has passed since the start of classes, students can communicate in writing to the teaching staff their resignation from the continuous evaluation and opt for the global evaluation.

The qualification of the continuous evaluation will be the following:

- The practice reports (deliverables) made during the course will have a maximum score of 4 points on the final grade.

- The written test of final evaluation will have a maximum value of 4 points on the final grade
- The presentation of the project in a group, in which both the oral presentation and the content are valued, will have a maximum value of 2 points on the final grade.

In order to pass by continuous evaluation, each of the parts must be approved with a minimum of 3.5 points out of 10. The final grade will be the sum of the marks achieved in each of the parts with their corresponding percentage applied.

Students who opt for the global evaluation will be presented to the final evaluation test on the corresponding official date set by the direction of the center. This date will be published at the beginning of the course, both on the official website of the center and on the Moovi platform for monitoring the subject.

Sources of information

Basic Bibliography

Project management Institute (PMI), A guide to the Project management Body of Knowledge (PMBok Guide). Edición inglés, 978-1628256642, 7th edition, PMI, 2021

Project management Institute (PMI), **Guía de Conocimiento de la Gestión de Proyectos. Edición castellano**, 978-1628256796, 7ª edición, PMI, 2021

Lewis Cindy, **Microsoft project 2019 step by step**, 978-1509307425, 1^a edition, Hoboken, NJ: Pearson Education, 2019 **Complementary Bibliography**

Osterwalder, Alexander, **Business model generatio: a handbook for visioanries, game changers, and challengers**, 978-0470876411, 1^a edition, Wiley, coop, 2010

Ray R. Venkataraman, Jeffrey K. Pinto, **Cost and Value Management in Projects**, 978-1394207190, 1º edicion, Wiley, coop, 2023

Itziar Goicoechea, **proyectos de edificaciones y construcciones industriales**, 978-8484085270, 1º edicion, Andavira, 2009

AENOR, **UNE 157001:2014.** Criterios generales para la elaboración formal de los documentos que constituyen un proyecto técnico, UNE 157001:2014, 1ª EDICION, AENOR, 2014

Ministerio transporte, movilidad y agenda urbana, **Código técnico de la edificación. Parte 1**, Modificaciones conforme al RD 450/2022, de 14 de junio (BOE 15/06/2022), 1º edicion, BOE, 2022

Ministerio españa, **disposiciones mínimas de seguridad y de salud en las obras de construcción**, Real Decreto 1627/1997, ULTIMA MODIFICACION, BOE, 2010

Recommendations

Subjects that continue the syllabus

Works, Surveys and Construction Processes/V09G291V01412

Subjects that are recommended to be taken simultaneously

Environmental technology/V09G291V01207

Works, Surveys and Construction Processes/V09G291V01412

Subjects that it is recommended to have taken before

Graphic expression: Graphic expression/V09G291V01101

Environmental technology/V09G291V01207

Energy Efficiency: Sustainability and Certification/V09G291V01413 Works, Surveys and Construction Processes/V09G291V01412

Other comments

All communication and documentation will be available through the Moovi platform.