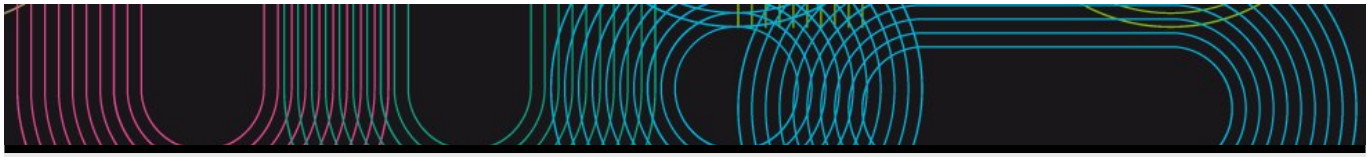

IDENTIFYING DATA				
Projects				
Subject	Projects			
Code	P03G370V01503			
Study programme	(*)Grao en Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	3rd	1st
Teaching language	Spanish			
Department				
Coordinator	Valero Gutiérrez del Olmo, Enrique María			
Lecturers	Valero Gutiérrez del Olmo, Enrique María			
E-mail	evalero@uvigo.es			
Web	http://http://faitic.uvigo.es/index.php/es/			
General description	(*)Esta materia é de carácter eminentemente aplicado e co obxectivo de que os alumnos adquiran os coñecementos básicos mediante a aprendizaxe dos conceptos, terminoloxía, teoría, e metodoloxía necesarios para ser capaz de entender, formular e resolver un proxecto.			

Competencies	
Code	
B13	Ability to design, direct, elaborate, implement and interpret projects and plans, as well as to write technical reports, recognition reports, assessments, appraisals and appraisals.
B14	Ability to understand, interpret and adopt scientific advances in the forest field, to develop and transfer technology and to work in a multilingual and multidisciplinary environment
C22	Ability to know, understand and use the principles of: methodology, organization and project management.
C42	Ability to do an original work to be presented and defended before a university court, consisting of a project in the field of specific technologies of Forest Engineering, of a professional nature in which the competences acquired in the teachings and subjects of the career.
D2	Ability to communicate orally and written in Spanish or in English
D4	Sustainability and environmental commitment
D5	Capacity for information management, analysis and synthesis
D6	Organization and planning capacity
D8	Ability to solve problems, critical reasoning and decision making

Learning outcomes	
Expected results from this subject	Training and Learning Results
1. Recognise the meaning, the contents and diverse theories on the (about) gobernanza, globalisation and human rights. 2. Enumerate different types of consequences that the taking of decisions and the acts of the public servers have on the people and the society. 3. Identify the solution of ethical problems and morals to international level, analysing the relation of the gobernanza with the improvement of the democratic quality, and the problem of the corruption and little spirit of the citizenship by the politics 4. Identify the foundations of the international politics compared in a context of globalisation and the instruments for the agreements between States. 5. Integrate the external politics of the main world-wide actors to international level with the right and the politics of the European Union and the Spanish State. 6. Describe the human rights and his main guarantees in a multinivel context and of 2030 Agenda, enumerating real cases. 7. Apply the knowledges purchased to concrete cases in a political global context. 8. Describe the main political of global dimension, especially the related with the equality and no discrimination, the environment, the cultural heritage and the security.	

3R. 2018 Be conscious of the multidisciplinary context of the engineering.	B13	C22	D2
4R. 2018 Capacity to #analyze products, processes and complex systems in the his field of study; choose and apply analytical methods, of calculation and experimental *relevantes of form *relevante and interpret correctly the results of these analyses.	B14	C42	D4 D5 D6
5R. 2018 Capacity to identify, formulate and resolve problems of engineering in the his speciality; choose and apply analytical methods, of calculation and experiments properly established; Recognize the importance of the social restrictions, of health and security, environmental, economic and industrial.			D8
6R. 2018 Capacity to project, design and develop complex products (pieces, component, products finished, etc.), processes and systems of the his speciality, that fulfil the requirements established, including the knowledge of the social aspects, of health and environmental security, economic and industrial; as well as select and apply methods of appropriate project.			
7R. 2018 Capacity of the project using any knowledges advanced of the his speciality in engineering.			
9R. 2018 Capacity to consult and apply codes of good practices and security of the his speciality.			
11R. 2018 Understanding of the techniques and methods of analysis, project and applicable investigation and his limitations within the scope of the his speciality.			
12R. 2018 practical Competition to resolve complex problems, realize complex projects of engineering and realize specific investigations stop his speciality.			
13R. 2018 Knowledge of the application of materials, teams and tools, technological processes and of engineering and his limitations within the scope of the his speciality.			
14R. 2018 Capacity to apply norms of engineering in the his speciality.			
15R. 2018 Knowledge of the social implications, of health and security, environmental, economic and @industrial of the practice in engineering.			
16R. 2018 general Ideas on economic questions, organisational and of management (how management of projects, management of risks and change) in the industrial and entrepreneurial context.			
18R. 2018 Capacity to manage activities or technical projects or complex professionals of the his speciality, assuming the responsibility of the takes of decisions.			

Contents

Topic	
Theme I. The project as a concept	- Definition and philosophy of the project - The project cycle
Theme II. The project as a method. Project engineering	- Project methodology. Reliability study - Preliminary project or preliminary project -Project detailed -Project planning - Socio-economic evaluation of projects -Evaluation of projects -Analysis of risk in the evaluation of projects.
Theme III. The project as document	- Content of project documents -Memory -Blueprints -Technical specifications -Budget -Health and Safety issues
Theme IV. The professional activity and the project	- The contracting of technical assistance for the drafting of projects. -The contest of projects and execution of works -The activity of project engineer -The rates of fees.
Theme V. Forestry projects	- Forest projects - Projects in Forest Industry -Silvicultural and Forest Management Projects -Forest infrastructures - Hunting projects -Fishing projects. -Projects for recreation and public use -Projects for the management of protected areas.

Planning

	Class hours	Hours outside the classroom	Total hours
Presentation	75	0	75
Project based learning	38	0	38
Discussion Forum	12	0	12
Debate	13	0	13

Objective questions exam	2	0	2
Essay	0	10	10

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

Methodologies

	Description
Presentation	Exhibition by the students to the teacher and / or a group of students of a subject matter or content of the results of a job, exercise, project ... It can be done individually or in groups.
Project based learning	Performing activities that allow the cooperation of various subjects and students face, working together, to open problems. Allow coaching, among others, the cooperative learning skills, leadership, organizational, communication and strengthening relationships.
Discussion Forum	Activity within a virtual environment in which they discussed various topics related to the academic and / or professional.
Debate	Open discussion between a group of students. You can focus on a topic of subject content, the analysis of a case, the outcome of a project, exercise or problem previously developed a keynote address ...

Personalized assistance

Methodologies	Description
Presentation	
Project based learning	
Discussion Forum	
Debate	

Assessment

	Description	Qualification	Training and Learning Results
Presentation	(*) Exames finais, ou por escrito de tipo redacción ou desenvolvemento dun ou varios temas, ou ben de tipo test, ou combinados ou ben, no seu caso exames orais	0	
Project based learning	(*)Realización dun anteproxecto técnico de carácter semi-profesional	40	D2 D6 D8
Objective questions exam	(*)Exames finais, ou por escrito de tipo redacción ou desenvolvemento dun ou varios temas, ou ben de tipo test, ou combinados ou ben, no seu caso exames orais	40	
Essay	(*)Avaliación continua do alumno a través da súa asistencia e participación, tanto nas clases como en debates e foros de discusión	20	D6 D8

Other comments on the Evaluation

Sources of information

Basic Bibliography

Complementary Bibliography

BERGILLOS MADRID, J.M, **Metodología de diseño de proyectos**, 1989.,

DE COS CASTILLO, M, **Teoría general del proyecto. Dirección de proyectos**, 1995,

GÓMEZ SENENT, E, **Introducción al proyecto**, 1989,

PEÑA, A., **Apuntes de Proyectos: Proyectos de Ingeniería y Documento Proyecto.**, 1997,

GÓMEZ SENENT, E., **Las fases del proyecto y su metodología.**, 1992,

HEREDIA, R., **Dirección integrada de proyecto. Segunda edición**, 1995,

CORZO, M.A., **Introducción a la ingeniería de proyectos**, 2002,

TRUEBA, Y., A. CAZORLA y J.J. DE GRACIA, **Proyectos empresariales. Formulación y Evaluación**, 1995,

ROMERO, C, **Teoría de la decisión multicriterio: conceptos, técnicas y aplicaciones.**, 2005,

PIQUER, J.S, **El proyecto en ingeniería y arquitectura**, 2003,

ESCRIVA, I.V., J.L.. PEREZ-SALAS y V. SEGURA, **Cuadro de precios. Ingeniería agronómica y alimentaria**, 1996,

SAPAG CHAIN, N, **Fundamentos de Preparación y Evaluación de Proyectos**, 2005,

MORRILLA ABAD, IGNACIO, **Guía metodológica y práctica para la realización de proyectos.**, 1998,

Recommendations

Subjects that are recommended to be taken simultaneously

Use of forests/P03G370V01601
Forest constructions/P03G370V01501
Forestry hydrology/P03G370V01604
Forest management/P03G370V01605
Repopulation/P03G370V01603

Subjects that it is recommended to have taken before

Physics: Physics I/P03G370V01102
Physics: Physics II/P03G370V01202
Mathematics: Overview of mathematics/P03G370V01203
Mathematics: Mathematics and IT/P03G370V01103
Botany/P03G370V01303
Electrotechnology and rural electrification/P03G370V01304

Contingency plan

Description

=== EXCEPTIONAL PLANNING ===
Given the uncertain and unpredictable evolution of the health alert caused by COVID-19, the University of Vigo establishes an extraordinary planning that will be activated when the administrations and the institution itself determine it, considering safety, health and responsibility criteria both in distance and blended learning. These already planned measures guarantee, at the required time, the development of teaching in a more agile and effective way, as it is known in advance (or well in advance) by the students and teachers through the standardized tool.

=== ADAPTATION OF THE METHODOLOGIES ===
* Teaching on line
Use of institutional on-line teaching platform Campus Remoto in a synchronous way for the theoretical classes including basics, foundations, as well as general guidelines for resolution of problems and practical cases. Specific didactic materials adapted for on line teaching will be prepared e.g. Video or presentations, graphic resources, software, etc. All the resources will be available through FAITIC platform.
* Mechanism face-to-face of attention to the students (tutorials)
Personalized attention. Communication by email or another on-line tool. Tutorials via Campus Remoto platform.
=== ADAPTATION OF The EVALUATION ===
On-line tests and tasks via Campus Remoto and Faitic. The weight of the tests will be maintained as they are described in the main guide.