Subject Guide 2015 / 2016



IDENTIFYING DATA Methodology for the Preparation, Presentation and Management of Technical Projects								
Subject	Methodology for	nent of Technic	ai Projects					
Subject	the Preparation,							
	Presentation and							
	Management of							
	Technical Projects							
Code	V12G360V01905							
Study	(*)Grao en							
programme	Enxeñaría en							
	Tecnoloxías							
	Industriais							
Descriptors	ECTS Credits	Choose	Year	Quadmester				
	6	Optional	4th	2nd				
Teaching	Spanish							
language	English							
Department								
Coordinator	Cerqueiro Pequeño, Jorge							
Lecturers	Cerqueiro Pequeño, Jorge							
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General	The aim of this course is to prepare the students to ha							
description	for the elaboration and management of technical docu	ments in the indu	istrial field of Eng	gineering.				
	It will also be sought to develop skills in the handling of information and communication technologies related to the professional field of the student's degree.							
	Furthermore, the student skills to communicate prope Industrial Engineering field will be strenghtened.	rly the knowledge	, procedures and	d results in the				
	An essentially practical approach will be used, based in the solution of specific application exercises -with guidance of the subject's lecturer- that will require to apply the theoretical contents of the course.							

	ncies

Code

- B3 CG3 Knowledge in basic and technological subjects that will enable them to learn new methods and theories, and equip them with versatility to adapt to new situations.
- C18 CE18 Knowledge and skills to organize and manage projects. Know the organizational structure and functions of a project office.
- D1 CT1 Analysis and synthesis.
- D2 CT2 Problems resolution.
- D3 CT3 Oral and written proficiency in the own language.
- D5 CT5 Information Management.
- D6 CT6 Application of computer science in the field of study.
- D7 CT7 Ability to organize and plan.
- D8 CT8 Decision making.
- D9 CT9 Apply knowledge.
- D10 CT10 Self learning and work.
- D11 CT11 Planning changes to improve overall systems.
- D13 CT13 Adaptability to new situations.
- D14 CT14 Creativity.
- D15 CT15 Objectification, identification and organization.
- D16 CT16 Critical thinking.
- D17 CT17 Working as a team.
- D18 CT18 Working in an international context.
- D20 CT20 Ability to communicate with people not expert in the field.

Expected results from this subject		Training and Learning Results		
Utilization of methodologies, technics and tools for the organization and management of all	В3	C18	D1	
technical documents other than engineering projects.			D2	
			D7	
			D8	
			D9	
			D10	
			D14	
			D15	
			D16	
			D17	
			D21	
Skills in the utilization of information systems and in the communications in the industrial scope.			D5	
			D6	
			D9	
			D11	
			D17	
Skills to communicate properly the knowledge, procedures, results, abilities in the field of			D3	
Engineering in Industry.			D13	
			D17	
			D18	
			D20	
			D21	

Contents	
Topic	
1. Types of usual documents in the distinct fields of the professional engineering activities.	1.1. Technical documents: Characteristics and components.1.2. Types of technical documents according to their contents.1.3. Types of technical documents according to their recipients and objectives.
2. Methodology for writing and presenting technical documentation: assessments, valuations, expert reports, studies, reports, dossiers and other similar technical works.	2.1. General aspects in elaborating and presenting technical documentation. 2.2. Elaboration of technical reports. 2.3. Elaboration of technical studies. 2.4. Elaboration of assessments, expert reports and valuations. 2.5. Elaboration of dossiers and other technical works. 2.6. Technical work in concurrent and/or collaborative engineering environments.
3. Techniques for research, analysis, evaluation and selection of technological information.	 3.1. Typology of technological information. 3.2. Sources of technological information. 3.3. Information and communications systems. 3.4. Techniques for information research. 3.5. Methods for analyzing information. 3.6. Evaluation and selection of information.
4. Documentation laws and regulations.	4.1. Applicable laws to technical documentation according to its specific field.4.2. Other applicable regulations.
5. Processing of technical documentation.	5.1. Processing at Government Offices of technical documentation.5.2. Legitimization and responsabilities in the processing of documentation before Government's Offices.5.3. Processing of documentation: Concepts, procedures and specifics.
6. Presentation and verbal defence of technical documents.	6.1. Regulations in the elaboration of technical presentations.6.2. Preparation for the verbal defence of technical documents.6.3. Techniques and specific tools for the performance of public presentations.

Planning			
	Class hours	Hours outside the classroom	Total hours
Master Session	29.5	44.25	73.75
Laboratory practises	29.5	44.25	73.75
Long answer tests and development	1.2	0	1.2

0

1.3

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

Methodologies	
	Description
Master Session	Presentation by the lecturer of the contents of the topic to be studied, the theoretical bases and/or guidelines of a specific work, exercise or project to be developed by the student.
Laboratory practises	Activities that require applying theoretical knowledge to specific situations in order to acquire basic and procedural skills related to the topic that is being studied. These activities will be developed in special spaces with specific equipment (laboratories, computer rooms, etc.).

Personalized attention			
Methodologies	Description		
, ,	Complementary exercises will be proposed to reinforce the learning of the subject contents, aimed at students showing difficulties to follow properly the progress of theoretical and practical lectures.		

Assessment					
	Description	Qualification		aining	
			Learning Result		
Laboratory practises	Interdisciplinary exercises and problems -as close to real cases as possible- will be solved in groups of students, with lecturer orientation and enforcing active participation by the students.	60	В3	C18	D1 D2 D3 D6 D7 D8 D9 D10 D11 D13 D14 D15 D16 D17 D18
Long answer tests and development	Development of subjects and theoretical concepts related with the contents of the matter, in the frame of the proof of final evaluation of the subject.	20 f	B3	C18	D1 D2 D3 D8 D9 D13 D14 D20
Practical tests, real task execution and / or simulated.	Realisation of proofs and practical exercises related with the contents of the matter, in the frame of the proof of final evaluation o the subject.	20 f	B3	C18	D1 D2 D3 D7 D8 D9 D11 D13 D14

Other comments on the Evaluation

Assessment of student's work - individually and/or in groups, either face-to-face or non-presential - will be carried out by the lecturer by weighting appropriatelly the different marks obtained in the activities that were proposed along this course.

Students may opt to follow this course either in the 'Continuous Evaluation' or in the 'Non-Continuous Evaluation' modalities. In both cases the grading of the course will be made according to a numerical system, using values from 0,0 to 10,0 pointsaccording to the current laws that are applicable (R.D. 1125/2003 of 5th September, BOE Nr. 224 of 18th September). A minimum overall mark of 5,0 is required to pass this course.

For the First Announcement or Edition.

a) 'Continuous Evaluation' modality:

The final mark for the course will be calculated by combining the individual marks awarded in the assessment of the works proposed and elaborated in the practical classes (60% weight) along the term, with the mark awarded for the final test performed in the date stated by the School's Ruling (40% weight).

These marks will assess the behaviour and the implication of the student both in class and in the realisation of the different programmed activities, plus the fulfillment of the deadlines for submitting the works that were proposed, and/or the presentation and defence of those works, etc.

Students not reaching the minimum value of 3,5 points out of 10 that are required for every section, they will either need to perform also the assessment in the SecondAnnouncement date, or to elaborate additional works or practical exercises to achieve the learning goals that were established for the concerned sections.

b) 'Non-ContinuousEvaluation' modality:

There is a two weeks time term after the starting date of the course for the concerned students to justify with documents that it is not possible for them to follow the regular process of continuous evaluation.

In order to pass this course, students renouncing to continuous evaluation will be obligued to perform a final test covering thewhole contents of the course, both theoretical and practical, including short questions, reasoning questions, problem solving and development of practical cases. The mark awarded to the student assessment will be the final mark for the course.

A minimum mark of 5,0 points out of 10,0 possible will be required to pass the course.

For the Second Announcement or Edition.

Students who did not pass the course in the First Announcement, but that could have passed some specific parts of the theory or practical blocks, will be allowed to be assessed only regarding the failed parts, keeping the marks formerly awarded for the parts already passed, and applying the same assessment criteria to them.

Students wishing to improve their qualification, or students that failed the course on the First Announcement, will need to assist to the Second Announcement, where they will be assessed about the whole contents ofthe course, both theoretical and practical, including short questions, reasoning questions, problem solving and development of practical cases. Students are required to reach a minimum mark of 5,0 points out of 10,0possible to pass the course.

Ethical commitment:

It is expected an adequate ethical behaviour of the student. In case of detecting unethical behaviour (copying, plagiarism, unauthorized use of electronic devices, etc.) shall be deemed that the student does not meet the requirements for passing the subject. In this case, the overall rating in the current academic year will be Fail (0.0).

The use of any electronic device for theassessment tests is not allowed unless explicitly authorized. The fact ofintroducing unauthorized electronic device in the examination room will beconsidered reason for not passing the subject in the current academic year andwill hold overall rating (0.0).

Sources of information

Aguado, David, HABILIDADES PARA EL TRABAJO EN EQUIPO: PROGRAMA DE ENTRENAMIENTO, 1ª,

Álvarez Marañón, Gonzalo, EL ARTE DE PRESENTAR : CÓMO PLANIFICAR, ESTRUCTURAR, DISEÑAR Y EXPONER PRESENTACIONES, 1ª,

Balzola, Martín, PREPARACIÓN DE PROYECTOS E INFORMES TÉCNICOS, 2ª.

Boeglin Naumovic, Martha, LEER Y REDACTAR EN LA UNIVERSIDAD : DEL CAOS DE LAS IDEAS AL TEXTO ESTRUCTURADO, 1ª,

Brown, Fortunato, TEXTOS INFORMATIVOS BREVES Y CLAROS: MANUAL DE REDACCIÓN DE DOCUMENTOS, 1ª, Calavera, J., MANUAL PARA LA REDACCIÓN DE INFORMES TÉCNICOS EN CONSTRUCCIÓN: INFORMES, DICTÁMENES, ARBITRAJES, 2ª,

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García Gil, F. Javier, NORMATIVA PARA EL PROYECTO TÉCNICO DE INGENIERÍA Y ARQUITECTURA, Versión 12.1,

González Fernández de Valderrama, Fernando, MEDICIONES Y PRESUPUESTOS: PARA ARQUITECTOS E INGENIEROS

DE EDIFICACIÓN, 2ª, Himstreet, William C., GUÍA PRÁCTICA PARA LA REDACCIÓN DE CARTAS E INFORMES EN LA EMPRESA, 1ª,

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Pease, Allan, ESCRIBIR BIEN ES FÁCIL: GUÍA PARA LA BUENA REDACCIÓN DE LA CORRESPONDENCIA, 1ª,

Sánchez Pérez, José, FUNDAMENTOS DE TRABAJO EN EQUIPO PARA EQUIPOS DE TRABAJO, 1ª,

Recommendations

Subjects that it is recommended to have taken before

Fundamentals of Engineering Graphics/V12G320V01101

Projects Elaboration and Management in Engineering/V12G320V01704

Other comments

Previously to the realisation of the final assesments, students should check in the FAITIC platform to know whether it is necessary for them to carry any particular documentation, materials, etc. into the exam room to perform the tests.

It is necessary that the student registered in this course, either has passed all courses of the former years, or is registered in the courses he's not passed yet.