Universida_{de}Vigo

Subject Guide 2021 / 2022

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IDENTIFYIN				
	gy for the drafting, presentation and manageme	ont of tochnical	works	
Subject	Methodology for the drafting, presentation and management of technical works		WUINS	
Code	V12G420V01805			
Study	Grado en			
programme	Ingeniería Biomédica			
Descriptors	ECTS Credits	Choose	Year	Quadmester
· · ·	6	Optional	4th	2nd
Teaching language	Spanish Galician English			
Department				
Coordinator	Cerqueiro Pequeño, Jorge			
Lecturers	Cerqueiro Pequeño, Jorge Comesaña Campos, Alberto			
E-mail	jcerquei@uvigo.es			
Web General	http://moovi.uvigo.gal/ The aim of this course is to prepare the students to			
description	for the elaboration and management of technical do It will also be sought to develop skills in the handling the professional field of the student's degree. Furthermore, the student skills to communicate prop Industrial Engineering field will be strenghtened. An essentially practical approach will be used, based guidance of the subject's lecturer- that will require t	g of information a perly the knowled d in the solution o	nd communicatic ge, procedures a f specific applica	on technologies related to nd results in the tion exercises -with
Skills				
provide	owledge in basic and technological subjects that will them the versatility to adapt to new situations. nowledge and skills to organize and manage projects. office.			
	blems resolution.			
	al and written proficiency.			
	prmation Management.			
	plication of computer science in the field of study.			
	ility to organize and plan.			
	cision making.			
	ply knowledge.			
D11 CT11 A	elf learning and work. bility to understand the meaning and application of th professional practice with the aim of achieving a more			ent fields of knowledge
	bility to communicate orally and in writing in the Galio			
D14 CT14 C				
	bjectification, identification and organization.			
	/orking as a team.			
	orking in an international context.			
D20 CT20 A	bility to communicate with people not expert in the fig	eld.		

Expected results from this subject		Training and Learning Results			
Utilization of methodologies, technics and tools for the organization and management of all	B3	C18	D2		
technical documents other than engineering projects.			D7		
			D8		
			D9		
			D10		
			D14		
			D15		
			D17		
Skills in the utilization of information systems and in the communications in the industrial scope.	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		

Contents	
Торіс	
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
2. Methodology for writing and presenting technical documentation: assessments, valuations, expert reports, studies, reports, dossiers and other similar technical works.	objectives.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
3. Techniques for research, analysis, evaluation and selection of technological information.	 environments. 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. Laws and regulations about documentation.	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.

PI	an	ni	ng

	Class hours	Hours outside the classroom	Total hours
Lecturing	29.5	44.25	73.75
Laboratory practical	29.5	44.25	73.75
Laboratory practice	1.3	0	1.3
Problem and/or exercise solving	1.2	0	1.2
*The information in the planning table is for	guidance only and does no	ot take into account the het	erogeneity of the students.

Methodologies		
Methodologies		
	Description	

Lecturing	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 practical	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 assistance		
Methodologies	Description	
Laboratory practical	Activities oriented to the application of knowledge to specific situations, and to acquire basic and procedimental skills related to the field of study. Rooms equiped with specific materials and resources will be used for these classes. An appropriate follow-up will be performed on student's work to verify that the best practices shown in theory classes are applied, and that the procedimental recommendations provided by the lecturer are followed. For all the teaching modalities considered in the Contingency Plan, the tutorial sessions can be carried out using IT tools (email, video-call, FAITIC forums, etc.) according to the modality of prior concertation of the virtual place, date and time.	

Assessment	Description	Qualificati	-	and a loc	
	Description	Qualification	Lea		Results
Laboratory practical	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.	55	Β3	C18	D2 D3 D5 D7 D8 D9 D10 D13 D14 D15 D17 D18 D20
Laboratory practice	Making of practical tests and exercises related to the subject's contents, in the scope of the personalised attention to students.	20	Β3	C18	D2 D3 D5 D7 D8 D9 D10 D13 D14 D15 D17 D18 D20
Problem and/or exercise solving	Groups of short answer questions related to the subject's contents, to check that the students have understood and assimilated the theoretical and practical contents.	25	B3	C18	D2 D3 D7 D8 D9 D11 D14 D15

Other comments on the Evaluation

In the face of the uncertain and unforeseeable evolution of the health alert caused by COVID-19, University of Vigo has established an exception planning that will be activated at the time the government offices and the own University mandate it. Such decision will be made based on safety, health and responsibility criteria, always guaranteeing the continuity of the teaching processes in a partial or full non-classroom scenario. Those already-planned steps will guarantee, at the moment it is required, the development of the teaching processes in a more streamlined and effective way as both the students and the lecturers will know about them beforehand (or with a broad anticipation), by means of the DOCNET standard institutional tool.

According to the instructions provided by the Vice-Rectorate for Learning Organization and Teaching Staff, the following

three scenarios are required to be taken into account with their corresponding contingency level:

SCENARIO 1. Full-classroom modality.

All teaching activities will be carried out at the classroom, both for theory and laboratory classes, according to the typical way for the course in the years before 2020.

SCENARIO 2. Half-classroom modality.

In the case the half-classroom teaching modality is activated by the University government, such event will involve a reduction in the capacity of the usual teaching spaces where the full-classroom modality is developed. Because of that, as a first measure the School will provide the teaching staff of the course with the information regarding the new authorized capacities for such teaching spaces so that the teaching activities can be re-organized for the remaining time of the term. It must be pointed out that the necessary re-organization to implement will depend on the specific moment in the term in which this teaching modality is activated. The following guidelines will be followed in the re-organization or the teaching activities:

a) Communication. All students in the course will be informed through the FAITIC teaching portal on the specific conditions for the development of the teaching and the evaluation activities that remain until the end of the term.

b) Adaptation of the tutorial and personalized attention to students. The tutorial sessions may be carried out by means of IT tools (email, video-call, FAITIC forums, etc.), according to the modality of prior concertation of the date and time for the session in the lecturers[] virtual offices.

c) Classroom and non-classroom activities. From the teaching activities that remain until the end of the term, those that could be carried out by all students in class need to be identified (prioritizing laboratory activities when possible), and those other that will be carried out remotely (theory classes are the ones that usually decrease in effectiveness less in this modality), to the effects of the planning of its efficient performance.

d) Teaching contents and learning goals. There will be no changes neither in the contents to be taught nor in the learning goals, as a consequence of this teaching modality.

e) Teaching schedule. The class timetable and the calendar of the different activities in the course will be maintained as initially planned and scheduled.

f) Bibliography or additional materials to facilitate self-learning. The teaching staff for the course will provide the students with the necessary learning materials to attend to the specific help needs of the students with respect to the course, according to the circumstances that turn out at any particular time, through the FAITIC portal.

With regard to the tools used for the teaching activities in the non-classroom modality, the CAMPUS REMOTO and FAITIC portals will be of preferential use, complemented if necessary with other solutions in order to address specific needs arising along the lecturing period.

SCENARIO 3. Non-classroom modality.

In the case the full non-classroom modality (discontinuation of all on-class learning and evaluation activities) is activated, the tools offered by the platforms currently available at University of Vigo -CAMPUS REMOTO and FAITIC- will be of preferent use. The specific conditions for the reo-organization to be carried out will depend of the particular time in the term in which such modality is mobilized. The following guidelines will be followed in the re-organization of the teaching activities:

a) Communication. All students in the course will be informed through the FAITIC teaching portal on the specific conditions for the development of the teaching and the evaluation activities that remain until the end of the term.

b) Adaptation and/or modification of the teaching methodologies. Even if the teaching methodologies for the course were fundamentally conceived towards the full-classroom modality, the teaching staff considers that they keep in essence their effectiveness in the non-classroom modality. That is why it is proposed to keep them as they are, even if special attention will be payed to their right development and results. Therefore, no changes will be made to the teaching methodologies initially defined for the course.

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f) Evaluation. No changes will be made neither to the evaluation tests, nor to their corresponding score weights, nor to their set dates.

g) Bibliography or additional materials to facilitate self-learning. The teaching staff for the course will provide the students with the necessary learning materials to attend to the specific help needs of the students with respect to the course, according to the circumstances that turn out at any particular time, through the FAITIC portal.

Sources of information

Basic Bibliography

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Complementary Bibliography

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Recommendations

Subjects that it is recommended to have taken before

Graphic expression: Fundamentals of engineering graphics/V12G320V01101 Technical Office/V12G320V01704

Other comments

Previously to the realisation of the final assessments, 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.

Contingency plan

Description

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