Universida_{de}Vigo

Subject Guide 2023 / 2024

IDENTIFYIN Externabin	s: Internships I				
Subject	Externships:				
Subject	Internships I				
Code	V05G301V01981				
Study	Grado en Ingeniería			,	
	de Tecnologías de				
programme	Telecomunicación				
Doscriptors	ECTS Credits	Choose	Year	Quadmester	
Descriptors	6		4th	1st	
Taaabina		Optional	401	150	
Teaching	Spanish				
language					
Department					
	Marcos Acevedo, Jorge				
Lecturers	Marcos Acevedo, Jorge				
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General description	(*)La Resistencia de Materiales aborda el análisis de la sometidos a acciones exteriores. Se trata, por lo tanto	, del estudio de la	a mecánica de lo	os sólidos deformables,	
	determinando los valores que pueden tomar las accion				
	incluso de rotura no se produzcan o las dimensiones q				
	que pueda soportar unas acciones exteriores dadas, sin que los esfuerzos internos originados ni las				
	deformaciones sobrepasen los máximos admisibles. En esta asignatura, se abordarán los estados de deformación y tensional que se presentan en un prisma mecánico cuando sobre él actúa una solicitación				
			do sobre el actu	ia una solicitación	
	externa o una combinación de varias de estas solicitado	ciones.			

Training and Learning Results

Code

- B4 CG4: The ability to solve problems with initiative, to make creative decisions and to communicate and transmit knowledge and skills, understanding the ethical and professional responsibility of the Technical Telecommunication Engineer activity.
- B5 CG5: The knowledge to perform measurements, calculations, assessments, appraisals, technical evaluations, studies, reports, task scheduling and similar work to each specific telecommunication area.
- B12 CG12 The development of discussion ability about technical subjects
- B13 CG13 The ability to use software tools that support problem solving in engineering.
- C21 CE21/ST1 The ability to construct, exploit and manage telecommunication networks, services, process and applications, considered as systems of receiving, transporting, representation, processing, storage, management and presentation of multimedia information from the point of view of transmission systems.
- C22 CE22/ST2 The ability of applying the basic techniques of telecommunication networks, services and applications for mobile and fixed environments, personal, local or long distance, with different bandwidth, including telephony, radio broadcasting, TV and data, from the point of view of transmission systems.
- C23 CE23/ST3 The ability to analyze the components and their specifications for guided and non-guided communications systems
- C24 CE24/ST4 The ability to select circuits, subsystems and systems of radiofrequency, microwaves, broadcasting, radio link and radio determination.
- C25 CE25/ST5 The ability to select transmission antennas, equipment and systems, propagation of guided and non-guided waves, with electromagnetic, radiofrequency and optical media, and their corresponding radio electric spectrum management and frequency designation.
- C26 CE26/ST6 The ability to analyze, codify, process and transmit multimedia information using analogical and digital signal processing techniques.
- C27 CE27/TEL1The ability to construct, operate and manage telecommunication networks, services, processes and applications considered as systems to receive, transport, represent, process, store, manage and present multimedia information from the computer services point of view.

- C28 CE28/TEL2 The ability to apply the techniques that are basis of computer networks, services and applications, such as management, signaling and switching, routing and securing systems (cryptographic protocols, tunneling, firewalls, charging mechanisms, authentication and content protection) traffic engineering (graph theory, queuing theory and teletraffic) rating, reliability and quality of service in both fixed, mobile, personal, local or long distance environments with different bandwidths, including telephony and data.
- C29 CE29/TEL3 The ability to build, operate and manage computer services using planning, sizing and analytical tools
- C30 CE30/TEL4 The ability to describe, program, assess and optimize communication protocols and interfaces at different network architecture layers .
- C31 CE31/TEL5 The ability to follow the technological progress of transmission, switching and processing to improve computer networks and services.
- C32 CE32/TEL6 The ability to design networks and service architectures.
- C33 CE33/TEL7 The ability to program network and distributed applications and services.
- C34 CE34/SI1The ability to construct, exploit and manage telecommunication services and applications, such as receiving, digital and analogical treatment, codification, transporting and representation, processing, storage, reproduction, management and presentation of audiovisual and multimedia information services.
- C35 CE35/SI2 The ability to analyze, specify, carry out and maintain systems, equipments, heads and installations of TV, audio and video for mobile and fixed environments.
- C36 CE36/SI3 The capacity to implement projects at places and installations for the production and recording of audio and video signals.
- C37 CE37/SI4 The ability to carry out acoustic engineering projects related to: acoustical isolation and conditioning of rooms, loudspeaker installations, specification, analysis and selection of electro acoustical transducers, measurement, analysis and control of radio vibration systems, environmental acoustics, submarine and acoustical systems.
- C38 CE38/SI5 The ability to create, modify, manage, broadcast and distribute multimedia contents taking into account the use and accessibility criteria to audiovisual, broadcasting and interactive services.
- C39 (CE39/SE1): The ability to construct, exploit and manage the receiving, transporting, representation, processing, storage, manage and presentation multimedia information from the electronic systems point of view.
- C40 (CE40/SE2): The ability to select electronic circuits and devices specialized in transmission, forwarding or routing, and terminals for fixed and mobile environments.
- C41 (CE41/SE3):The ability to make the specification, implementation, documenting and tuning of electronic systems and equipment (both instrumentation and control oriented), considering the corresponding technical aspects and the regulations.
- C42 (CE42/SE4): The ability to apply electronics as support technology in other fields and activities and not only in information and communication technologies.
- C43 (CE43/SE5): The ability to design analogical and digital electronics circuits of analogical to digital conversion and vice versa, of radiofrequency, of feeding and electrical energy conversion for computing and telecommunication engineering.
- C44 (CE44/SE6): The ability to understand and use feedback theory and electronic control systems.
- C45 (CE45/SE7): The ability to design interface, data capturing and storage devices, and terminals for services and telecommunication systems.
- C46 (CE46/SE8): The ability to specify and use electronic instrumentation and measurement systems.
- C47 (CE47/SE9): The ability to analyze and solve interference and electromagnetic compatibility problems .
- D2 CT2 Understanding Engineering within a framework of sustainable development.
- D5 CT5 Ability to communicate orally and in writing in the Galician language.

Expected results from this subject

Expected results from this subject

Training and Learning Results

more usual functions (according company.	g to the programm	ne of the student) in	n some real surroundings	s of B5 B12 B13	C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39 C40 C41 C42 C43 C44 C45 C44 C45 C46 C47	D5
Contents						
Topic Constant		T		+la a a a a al a a a	! _ LL	
General content	l in lain		utor in the company and			6 11
Integration in the company and surroundings of work	ininis	company and musto he was assigne	e student will be integrat it coordinate with the res d.	st of membe	rs of the wo	
Development of his professiona	al activity	The student will m knowledges and c	nake the tasks entrusted, ompetences.	in accordan	ce with his	
Planning						
<u>i idiiiiig</u>		Class hours	Hours outside t	he Tot	al hours	
Practicum, External practices a	<u>.</u>		5	150		
*The information in the plannin	g table is for guida	ance only and does	not take into account th	e heterogen	eity of the s	students.
Methodologies						
Descri						
			a Telecommunications T ills acquired, to complete			
Personalized assistance						
Methodologies	Description					
	The student will h the specific tasks professor of the E	that it will have to .E.T. of the Univers	he company that will guidevelop inside the same ity of Vigo- that will define activity of the student	; and an aca ne together v	demic tutor vith the tuto	 or of

Experience in the exert of the profession of Technical Engineer of Telecommunication and of his more usual functions (according to the programme of the student) in some real surroundings of

Assessment			
	Description	Qualification	Training and Learning Results

the profile studied by the student.

C21

В4

D2

Practicum, External practices and clinical practices	The evaluation will realise in function of: 1) The memory of activities 2) The evaluation of the tutor in the company	100	B4 B5 B12 B13	C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39 C40 C41 C42 C43 C45 C46	D2
				C46 C47	

Other comments on the Evaluation

REPORT OF ACTIVITIES: The student must submit a report explaining the activities undertaken during practices, specifying its duration, departments of the company that were conducted, training received (courses, software, etc.), the level of integration within the company and personal relationships.

The report must also include a section of conclusions, containing a reflection on the adequacy of the lessons learned during the university studies to performance practice (negative and positive aspects significant related to the development of practices). It also assessed the inclusion of information on the professional and personal experience with the practices (personal assessment of learning achieved over practices or own contributions and suggestions on the structure and operation of the company visited).

The assessment of memory will be 60% of the final qualification.

COMPANY TUTOR EVALUATION: The company tutor will submit a report assessing aspects with the practices carried out by students: punctuality, attendance, responsibility, teamwork ability and integration in the enterprise, quality of work done,

The assessment of the tutor in the company will be 40% of the final qualification.

Sources of information
Basic Bibliography
Complementary Bibliography
Recommendations
Other comments
t recommends have studied the three first courses of the degree.