Universida_{de}Vigo

Subject Guide 2024 / 2025

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IDENTIFYIN Extornabin	IG DATA s: Internships I			
Subject	Externships:			
Subject	Internships I			
Code	V05G306V01981			
Study	Grado en Ingeniería			
programme	de Tecnologías de Telecomunicación			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	4th	lst
Teaching	Spanish			
language				
Department				
	Marcos Acevedo, Jorge			
Lecturers E-mail				
Web	http://faitic.uvigo.es			
General	(*)Estancia nunha empresa desenvolvendo funcións	propias dun/a Enx	eñeiro/a Técnico/	a de Telecomunicación
description	relacionadas co perfil profesional cursado polo alumr	no (Sistemas de Te	elecomunicación,	Telemática, Sistemas
	Electrónicos ou Son e Imaxe) e supervisado por profe	esorado do Centro	e persoal da emp	presa.
	d Learning Results			
Code B4 CG4: Th	ne ability to solve problems with initiative, to make cre	ativo docisions a	nd to communicat	o and transmit
	dge and skills, understanding the ethical and profession			
	er activity.			
	ne knowledge to perform measurements, calculations,	assessments, ap	praisals, technical	evaluations, studies,
	, task scheduling and similar work to each specific tele		area.	
	he development of discussion ability about technical s			
	he ability to use software tools that support problem s T1 The ability to construct, exploit and manage teleco			record applications
	ered as systems of receiving, transporting, representation			
	edia information from the point of view of transmission		itorage, managen	iene and presentation of
	T2 The ability of applying the basic techniques of tele			
	and fixed environments, personal, local or long distan		bandwidth, includ	ling telephony, radio
	asting, TV and data, from the point of view of transmis		ided and man ave.	
system	T3 The ability to analyze the components and their sp s	ecifications for gu	lided and non-guid	
	T4 The ability to select circuits, subsystems and syste	ms of radiofreque	ncv. microwaves.	broadcasting, radio link
and rac	lio determination.	•		5
	T5 The ability to select transmission antennas, equipn			
	with electromagnetic, radiofrequency and optical med	dia, and their corr	esponding radio e	lectric spectrum
	ement and frequency designation. T6 The ability to analyze, codify, process and transmit	multimodia infor	mation using anal	agical and digital signal
	sing techniques.		mation using anal	ogical and digital signal
	EL1The ability to construct, operate and manage telec	communication ne	tworks. services.	processes and
	tions considered as systems to receive, transport, rep			
	tion from the computer services point of view.			
	EL2 The ability to apply the techniques that are basis			
	ement, signaling and switching, routing and securing sign mechanisms, authentication and content protection			
	fic) rating, reliability and quality of service in both fixe			
	ferent bandwidths, including telephony and data.	, mosne, person	and the second s	
	EL3 The ability to build, operate and manage compute	er services using p	lanning, sizing an	d analytical tools
C30 CE30/T	EL4 The ability to describe, program, assess and optin			
networ	k 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.

Expected results from this subject Expected results from this subject Training and Learning Results Experience in the exert of the profession of Technical Engineer of Telecommunication and of his B4 C21 D2 more usual functions (according to the programme of the student) in some real surroundings of B5 C22 company. B12 C23 B13 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39 C40 C41 C42 C43 C44 C45 C46 C47

Contents

Торіс			
General content	To define by the tutor in the company and the academic tutor		
Integration in the company and in his surroundings of work	During his stay the student will be integrated into the organization of the company and must coordinate with the rest of members of the work team to he was assigned.		
Development of his professional activity	The student will make the tasks entrusted, in accordance with his knowledges and competences.		

	Class hours	Hours outside the classroom	Total hours
Practicum, External practices and clinical practices	145	5	150
*The information in the planning table is for guidance	e only and does not	t take into account the hete	erogeneity of the students.

Methodologies				
	Description			
Practicum, External practices and clinical practices	Stay in a company developing functions of a Telecommunications Technical Engineer so that they can put into practice the knowledge and skills acquired, to complete their academic training.			

Personalized assistance			
Methodologies	Description		
Practicum, External practices and clinical practices	The student will have a tutor inside the company that will guide him and will supervise in the specific tasks that it will have to develop inside the same; and an academic tutor - professor of the E.E.T. of the University of Vigo- that will define together with the tutor of the company, the general frame of the activity of the student, checking that it adjusts to the profile studied by the student.		

	Description	Qualification	Trainin	Training and Learning		
	F -	çaamcacion	Results			
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 C47	D2	

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, etc.

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

It recommends have studied the three first courses of the degree.