Universida_{de}Vigo

IDENTIFYING DATA
External placements: Placements in Companies II

Subject	External placements: Placements in Companies II
Code	V05G300V01982
Study programme	(*)Grao en Enxeñaría de Tecnoloxías de Telecomunicación

Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Optional	4th	1st

Teaching language	
Department	
Coordinator	Marcos Acevedo, Jorge
Lecturers	Marcos Acevedo, Jorge
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General description	(*)Estancia nunha empresa desenvolvendo funcións propias dun/a Enxeñeiro/a Técnico/a de Telecomunicación relacionadas co perfil profesional cursado polo alumno (Sistemas de Telecomunicación, Telemática, Sistemas Electrónicos ou Son e Imaxe) e supervisado por profesorado do Centro e persoal da empresa.

Competencies

Code	
A4	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.
A5	CG5: The knowledge to perform measurements, calculations, assessments, appraisals, technical evaluations, studies, reports, task scheduling and similar work to each specific telecommunication area.
A30	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.
A31	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.
A32	CE23/ST3 The ability to analyze the components and their specifications for guided and non-guided communications systems
A33	CE24/ST4 The ability to select circuits, subsystems and systems of radiofrequency, microwaves, broadcasting, radio link and radio determination.
A34	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.
A35	CE26/ST6 The ability to analyze, codify, process and transmit multimedia information using analogical and digital signal processing techniques.
A36	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.
A37	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.
A38	CE29/TEL3 The ability to build, operate and manage computer services using planning, sizing and analytical tools

A39	CE30/TEL4 The ability to describe, program, assess and optimize communication protocols and interfaces at different network architecture layers .
A40	CE31/TEL5 The ability to follow the technological progress of transmission, switching and processing to improve computer networks and services.
A41	CE32/TEL6 The ability to design networks and service architectures.
A42	CE33/TEL7 The ability to program network and distributed applications and services.
A43	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.
A44	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.
A45	CE36/SI3 The capacity to implement projects at places and installations for the production and recording of audio and video signals.
A46	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.
A47	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.
A48	(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.
A49	(CE40/SE2): The ability to select electronic circuits and devices specialized in transmission, forwarding or routing, and terminals for fixed and mobile environments.
A50	(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.
A51	(CE42/SE4): The ability to apply electronics as support technology in other fields and activities and not only in information and communication technologies.
A52	(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.
A54	(CE45/SE7): The ability to design interface, data capturing and storage devices, and terminals for services and telecommunication systems.
A55	(CE46/SE8): The ability to specify and use electronic instrumentation and measurement systems.
A56	(CE47/SE9): The ability to analyze and solve interference and electromagnetic compatibility problems .
B3	The development of discussion ability about technical subjects
B4	The ability to use software tools that support problem solving in engineering

Learning aims

Expected results from this subject		Training and Learning Results
(*)	A4	B3
	A5	B4
	A30	
	A31	
	A32	
	A33	
	A34	
	A35	
	A36	
	A37	
	A38	
	A39	
	A40	
	A41	
	A42	
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	A44	
	A45	
	A46	
	A47	
	A48	
	A49	
	A50	
	A51	
	A52	
	A54	
	A55	
	A56	

Contents

Topic
(*)A definir por el tutor de la empresa y el tutor académico.

Planning

	Class hours	Hours outside the classroom	Total hours
External practises	147	0	147
Reports / memories of internships or practicum	0	3	3

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

Methodologies

	Description
External practises	(*)Estancia nunha empresa desenvolvendo funcións propias dun Enxeñeiro/a Técnico/a de Telecomunicación con perfil determinado pola tecnoloxía que estudase o alumno (Sistemas de Telecomunicación, Sistemas Electrónicos, Telemática ou Son e Imaxe)

Personalized attention

Methodologies	Description
External practises	

Assessment

	Description	Qualification
External practises	(*)Valorarase tanto a aptitude como a actitude do alumno no desenvolvemento das actividades encomendadas.	90
Reports / memories of internships or practicum	(*)A memoria presentada polo alumno deberá axustarse ás indicacións recollidas nas normativas de prácticas en empresa vixentes (Universidade de Vigo e interna do grao en Enxeñaría de Tecnoloxías de Telecomunicación).	10

Other comments on the Evaluation

Sources of information

Recommendations