



Universidad
Politécnica
de Cartagena



Escuela Técnica Superior de Ingeniería de Telecomunicación (<https://teleco.upct.es>)

Bachelor and Master programmes (<https://teleco.upct.es/international>)

All programmes are delivered in Spanish, but there is a range of individual courses offered in English (Mode 3) or with teacher support in English (Mode 4). See table below. In Mode 4, teaching is in Spanish but class slides and materials are in English, besides, teachers offer support in English during their office ours.

Undergraduate programmes

[BSc Telecommunication Systems Engineering \(GIST\)](#) and **[BSc Telematics Engineering \(GIT\)](#)**

Master programmes

[MSc in Telecommunication Engineering / Máster Universitario en Ingeniería de Telecomunicación \(MUIT\)](#)

[MSc in Network Engineering / Máster Universitario en Ingeniería Telemática \(MIUTE\)](#)

Final Project Proposals / Trabajo Fin de Estudios (TFE)

Updated list for [GIST](#) and [GIT](#): an abstract of the proposal in English is available for the projects offered to international students (click on title in English to uncover the abstract). If you are interested in a project or a topic related to any proposal you would like to work on, contact the supervisor for further information (click on the name of the supervisor to get contact details).

Academic year 2024/25: Updated Courses/Modules offered in English (Mode 3) or in Spanish with teacher support in English (Mode 4).

CODE	YEAR/DEGREE	MODULE	MODE	Semester 1 or 2	Remark
504101002/ 505101002	1/GIST/GIT	Linear algebra and numerical methods https://teleco.upct.es/guia-docente/504101002	3	1	
504101009/ 505101009	1/GIST/GIT	Business management https://teleco.upct.es/guia-docente/504101009	3	2	
504101010/ 505101010	1/GIST/GIT	Telematic Fundamentals https://teleco.upct.es/study-guide/504101010	3	2	
504102002/ 505102002	2/GIST/GIT	Electronic components and devices https://teleco.upct.es/study-guide/504102002	3	1	
504102004/ 505102004	2/GIST/GIT	Switching https://teleco.upct.es/study-guide/504102004	3	1	
504101001/ 505101001	1/GIST/GIT	Physics https://teleco.upct.es/guia-docente/504101001	4	1	
504101008/ 505101008	1/GIST/GIT	Systems and circuits https://teleco.upct.es/study-guide/504101008	4	2	
504102009/ 505102009	2/GIST/GIT	Telecommunication Network Theory https://teleco.upct.es/study-guide/504102009	4	2	
504102007/ 505102007	2/GIST/GIT	Telecommunication systems and services https://teleco.upct.es/study-guide/504102007	4	2	
505103007	3/GIT	Protocol engineering https://teleco.upct.es/study-guide/505103007	3	2	
505103008	3/GIT	Wireless networks https://teleco.upct.es/study-guide/505103008	3	2	
505103005	3/GIT	Technical English https://teleco.upct.es/study-guide/505103005	3	1	
505103007	3/GIT	Protocol engineering https://teleco.upct.es/study-guide/505103007	3	2	
505103008	3/GIT	Wireless networks https://teleco.upct.es/study-guide/505103008	3	2	
505103009	3/GIT	Modelling and simulation https://teleco.upct.es/guia-docente/505103009	4	2	
505103006	3/GIT	Data transmission https://teleco.upct.es/guia-docente/505103006	4	2	
505103002	3/GIT	Distributed services and systems https://teleco.upct.es/study-guide/505103002	4	1	
505104001	4/GIT	Network security https://teleco.upct.es/study-guide/505104001	3	1	

505104003	4/GIT	Internet applications https://teleco.upct.es/study-guide/505104003	4	1	
505104001	4/GIT	Network security https://teleco.upct.es/study-guide/505104001	3	1	
504103002	3/GIST	Circuits analysis and design https://teleco.upct.es/study-guide/504103002	4	1	
504103004	3/GIST	Implementation of communications https://teleco.upct.es/study-guide/504103004	4	1	
504103010	3/GIST	Programming for telecommunication systems https://teleco.upct.es/guia-	4	2	
504103003	3/GIST	Microwaves https://teleco.upct.es/guia-docente/504103003	4	1	
504103005	3/GIST	Technical English https://teleco.upct.es/study-guide/504103005	3	1	
504104001	4/GIST	Digital signal processing https://teleco.upct.es/guia-docente/504104001	4	1	
504104004	4/GIST	Applications of microwaves https://teleco.upct.es/guia-docente/504104004	4	1	
211101001	1/MUIT	Advanced Internet https://teleco.upct.es/guia-docente/211101001	4	1	
211101002/247101002	1/MUIT/MUITE	Network convergence https://teleco.upct.es/guia-docente/211101002	4	1	
211101003	1/MUIT	Image and sound signal processing https://teleco.upct.es/guia-docente/211101003	4	1	Mode 4 only for Block 3
211101006	1/MUIT	Electronic system design https://teleco.upct.es/guia-docente/211101006	4	2	
211101007/247101007	1/MUIT/MUITE	Network operation https://teleco.upct.es/guia-docente/211101007	4	2	
211101008	1/MUIT	Radar and radio positioning systems https://teleco.upct.es/guia-docente/211101008	4	2	Mode 4 only for Block 1
211102004	2/MUIT	Electronic systems for bioengineering https://teleco.upct.es/guia-docente/211102004	4	1	
247101001	1/MUITE	Internet applications and services https://teleco.upct.es/guia-docente/247101001	4	1	
247101010	1/MUITE	Virtual and augmented reality https://teleco.upct.es/guia-docente/247101010	4	2	
247101009	1/MUITE	Technologies for artificial intelligence https://teleco.upct.es/guia-docente/247101009	4	2	
247101008	1/MUITE	Virtualization https://teleco.upct.es/guia-docente/247101008	4	2	
247101003	1/MUITE	Security https://teleco.upct.es/guia-docente/247101003	4	1	
247101006	1/MUITE	Internet of Things https://teleco.upct.es/guia-docente/247101006	4	1	

211101006	1/MUIT	Electronic system design https://teleco.upct.es/guia-docente/211101006	4	2	
211101008	1/MUIT	Radar and radio positioning systems https://teleco.upct.es/guia-docente/211101008	4	2	Mode 4 only for Block 1
247101001	1/MUITE	Internet applications and services https://teleco.upct.es/guia-docente/247101001	4	1	
247101010	1/MUITE	Virtual and augmented reality https://teleco.upct.es/guia-docente/247101010	4	2	
247101009	1/MUITE	Technologies for artificial intelligence https://teleco.upct.es/guia-docente/247101009	4	2	
247101008	1/MUITE	Virtualization https://teleco.upct.es/guia-docente/247101008	4	2	
247101003	1/MUITE	Security https://teleco.upct.es/guia-docente/247101003	4	1	
247101006	1/MUITE	Internet of Things https://teleco.upct.es/guia-docente/247101006	4	1	