

First Spanish university to earn 5 stars according to international quality accreditation system **-QS Stars University Ratings-** (International Accreditation).

The UAH is Spain's second best public university for teaching quality **-CYD Ranking-**.

Top Spanish University for Employability. **-MECD Report on University Student's Labour Insertion-**.

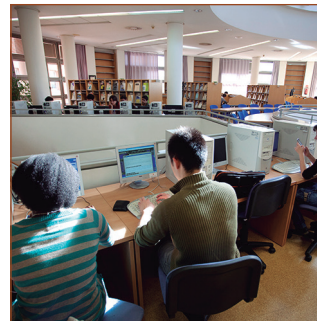
Among the World's Top Universities for Employability **-QS Graduate Employability Ranking-**.

Campus of International Excellence in Smart Energy **-BIOENERGY & SMART CITIES-**.

PROFESSIONAL OPPORTUNITIES

This degree grants access to the Masters in Telecommunications Engineering, which qualifies its holders for professional practice as Telecommunications Engineers.

- Communication network operators (Internet, TV, fixed and mobile telephones...) and in companies for research and development of communication equipment.
- Civil service and Defence software engineering firms.
- Network configuration, installation and operation in private companies, organisations and public administration.
- Configuration and installation of commercial networks.
- Development and exploitation of telematics applications: on-line working, on-line teaching and learning, on-line medicine, smart homes.
- Teaching in secondary education centres, universities and private centres.



POLYTECHNIC SCHOOL

SCIENCE AND TECHNOLOGY CAMPUS EDIFICIO POLITÉCNICO

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INFORMATION CENTRE

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Degree with bilingual option in

TELEMATICS ENGINEERING

Field of Knowledge:
Architecture and Engineering

WORLD HERITAGE



Universidad
de Alcalá



Sello de excelencia internacional EUR-ACE a las titulaciones GIEAI, GIEC, GIST, GIT

GLOBAL CREDIT DISTRIBUTION

TYPE OF SUBJECT	ECTS
Basic training (Basic)	66,0
Compulsory (COM)	120,0
Optional (OP)	42,0
Cross-curricular	12,0
TOTAL ECTS	240,0

The updated offer of optional matters is available on the website of the Centre

Students wishing to study part time may complete the course programme in 8 years.

Basic: Basic training;
COM: Compulsory; OP: Optional

COURSE PROGRAMME

FIRST YEAR	FIRST TERM	Type	ECTS	SECOND TERM	Type	ECTS
	Fundamentals of Physics I *	Basic	6,0	Calculus II	Basic	6,0
	Calculus I	Basic	6,0	Fundamentals of Physics II *	Basic	6,0
	Linear Algebra	Basic	6,0	Circuit Analysis *	COM	6,0
	Circuit Theory *	Basic	6,0	Programming *	COM	6,0
	Computer Systems *	Basic	6,0	Digital Electronics *	COM	6,0
TOTAL ECTS			60,0			

SECOND YEAR	FIRST TERM	Type	ECTS	SECOND TERM	Type	ECTS
	Statistics	Basic	6,0	Communication Theory *	COM	6,0
	Signals and Systems *	Basic	6,0	Circuit Electronics *	COM	6,0
	Fundamentals of Electronics *	Basic	6,0	Network Architecture II *	COM	6,0
	Digital Electronic Systems *	COM	6,0	Business Economics	Basic	6,0
	Network Architecture I *	COM	6,0	Waves Propagation *	COM	6,0
TOTAL ECTS			60,0			

THIRD YEAR	FIRST TERM	Type	ECTS	SECOND TERM	Type	ECTS
	Communication Networks	COM	6,0	Operating Systems	COM	6,0
	Advanced Programming	COM	6,0	Commutation	COM	6,0
	Telematic Services	COM	6,0	Services, Networks and Systems Laboratory	COM	6,0
	Computer Architecture	COM	6,0	Cross-curricular I		6,0
	Safety	COM	6,0	Cross-curricular II		6,0
TOTAL ECTS			60,0			

FOURTH YEAR	FIRST TERM	Type	ECTS	SECOND TERM	Type	ECTS
	Traffic Engineering	COM	6,0	Undergraduate Dissertation	COM	12,0
	Oriented Optional 1	OP	6,0	External Placement / Optional 5, 6 and 7	OP	18,0
	Oriented Optional 2	OP	6,0			
	Oriented Optional 3	OP	6,0			
	Oriented Optional 4	OP	6,0			
TOTAL ECTS			60,0			

* Courses also taught in English