Campus Sur, U. Politécnica de Madrid

Schools:

- School of Telecommunications Systems and Engineering (ETSIST)
- School of Computer Systems Engineering (ETSISI)
- School of Land Surveying, Geodesy and Mapping Engineering
- Fashion Design Higher Education Centre of Madrid

R&D Centres:

- Research Centre on Software Technologies and Multimedia Systems for Sustainability (CITSEM)
- Industrial Electronics Centre (CEI)
- Solar Energy Institute (IES)
- Automobile Research University Institute (INSIA)
- Laser Centre of the UPM

Facilities:

- Campus Sur University Library (BUCS)
- Sports facilities
- Nursing

DIRECTIONS:

ETSIS de Telecomunicación. Campus Sur UPM.
C/Nikola Tesla, s/n. 28031 Madrid (SPAIN).

A3 and M40 highways

Urban: E, 63, 145, 54, 58, 103, 142, 143
Inter-city: 331, 332, 337

Line 1. "Sierra de Guadalupe" station

Lines C1, C2 and C7. "Vallecas" station

Entrance requirements

MSSEIS:

Graduates in any Engineering related to the Information and Communication Technologies can access the MSSEIS without the need of any complementary course.

EIT Digital Master School double Master's degrees:

To access the double Master's degree programme of the EIT Digital Master School, the following requirements apply:

- Bachelor Degree (180 ECTS).
- Proof of English language proficiency.

Application

MSSEIS:

Online applications: **https://www.upm.es/helios/**

More information and dates:

http://www.upm.es/Estudiantes/Estudios_Titulaciones/Estudios_Master/Admision

http://www.upm.es/Estudiantes/Estudios_Titulaciones/Estudios_Master/Calendario

EIT Digital Master School double Master's degrees:

Specific documents and information at:

http://www.masterschool.eitdigital.eu/application/

Calendar and timeschedule

Courses begin in September and end in June. They are taught Monday to Friday in the afternoons.

Information and contact

ETSIS de Telecomunicación. Campus Sur UPM.
C/Nikola Tesla, s/n. 28031 Madrid (SPAIN).

http://www.etsist.upm.es/estudios/postgrado
sid@etsist.upm.es

Tel.: (+34) 910673209/8

UNIVERSIDAD POLITÉCNICA de MADRID (UPM)

Official Master's Degree

Master in Systems and Services Engineering for the Information Society

Máster Universitario en Ingeniería de Sistemas y Servicios para la Sociedad de la Información

SCHOOL of TELECOMMUNICATIONS SYSTEMS AND ENGINEERING, CAMPUS SUR (ETSIST-UPM)

Adapted to the European Higher Education Area (EHEA)

Objectives and description

This Master's Degree aims to provide students with the advanced necessary knowledge towards any professional or research position related to the areas of Information Society, ICT and Telecommunications technologies, systems, applications and services. It tackles these four crucial technological areas which are, all of them, at the core of modern mobile and ubiquitous systems:

- **Wireless communication** technologies used in the latest generations of mobile systems.
- **Communication electronics** related to the advanced digital architectures found in embedded systems.
- **Telematics** present in Wireless Sensor and Actuator Networks.
- **Signal processing** necessary to transmit audio and video information through the network.

Programme itineraries

The study plan is worth **60 ECTS** and is taught in two 30-ECTS semesters. There are two possible **itineraries**:

- **Standalone** itinerary.

  This is the one-year programme that leads to the obtention of the Official Master's Degree in Systems and Services Engineering for the Information Society.

  The first semester provides a common base training while the second semester offers more specialization, finishing with the development of a Master Thesis.

- **EIT Digital** itinerary.

  The MSSEIS programme is integrated as a **second year** of a double Master's Degree offered by the EIT Digital Master School, called "Internet Technology and Architecture (ITA)", which includes a minor in Innovation and Entrepreneurship. Specifically, MSSEIS constitutes the specialization on "Technologies for Internet Mobile and Ubiquitous Computing".

  After studying one year in one European University and a second year in another, the student gets the two local Master degrees plus the EIT Digital certificate.

Study plan: standalone itinerary

FALL semester

SUBJECT (ECTS)	TYPE
WIRELESS COMMUNICATIONS (5)	Mandatory
ADVANCED DIGITAL ARCHITECTURES (5)	
AUDIO AND VIDEO SIGNAL PROCESSING (5)	
UBIQUITOUS AND SECURE NETWORKS AND SERVICES (5)	
ICT MANAGEMENT IN THE ORGANIZATIONS (2)	
ICT AND THE INFORMATION SOCIETY (3)	
DATA MODELLING AND ANALYSIS IN ENGINEERING (5)	Elective, choose 5 ECTS
ADVANCED RESEARCH SEMINARS I (5)	
INDUSTRY INTERNSHIP I (5)	

SPRING semester

SUBJECT (ECTS)	TYPE
RF ELECTRONIC DESIGN (5)	Block: systems
SIGNAL PROCESSING TECHNIQUES FOR COMMUNICATIONS (5)	
ADVANCED VIRTUAL INSTRUMENTATION SYSTEMS (5)	
EMBEDDED SYSTEMS (5)	
ADVANCED AUDIOVISUAL CODING (5)	Block: services
SIGNAL RECOGNITION TECHNIQUES (5)	
TELEMATIC SERVICES FOR THE INFORMATION SOCIETY (5)	
SERVICES AND PROTOCOLS ENGINEERING (5)	
ADVANCED RESEARCH SEMINARS II (5)	Block: transversal
INDUSTRY INTERNSHIP II (5)	
MASTER THESIS (15)	Mandatory

During the SPRING semester the student chooses one out of two possible intensifications:

- **Systems intensification**: 10 ECTS from block "systems" + 5 ECTS from block {"systems" or "services" or "transversal"} + 15 ECTS (Master Thesis).
- **Services intensification**: 10 ECTS from block "services" + 5 ECTS from block {"systems" or "services" or "transversal"} + 15 ECTS (Master Thesis).

Study plan: EIT Digital itinerary

Complete two-year Double Degree's programme

First Year (60 ECTS): Entry

1st Semester	2nd Semester	Summer School
– Technical Core courses – Introduction to Innovation & Entrepreneurship	– Electives – Business Development Lab	– Innovation & Entrepreneurship projects with a thematic focus

Second Year (60 ECTS): Exit

3rd Semester	3rd or 4th Semester	4th Semester
– Technical Specialisation with thematic relevance	– Innovation & Entrepreneurship thesis	– MSc thesis (30 EC) – Thematically oriented and industry based thesis work

Second year at UPM (MSSEIS programme)

SUBJECT (ECTS)	TYPE
I&E THESIS (6)	Mandatory
WIRELESS COMMUNICATIONS (5)	Elective, choose 25 ECTS
ADVANCED DIGITAL ARCHITECTURES (5)	
AUDIO AND VIDEO SIGNAL PROCESSING (5)	
UBIQUITOUS AND SECURE NETWORKS AND SERVICES (5)	
ADVANCED RESEARCH SEMINARS I (5)	
SIGNAL PROCESSING TECHNIQUES FOR COMMUNICATIONS (5)	
EMBEDDED SYSTEMS (5)	
MASTER THESIS WORK SUPPLEMENT (15)	Mandatory
MASTER THESIS (15)	Mandatory

FALL (3rd ITA Semester) SPRING (4th ITA Semester)

Other double degree agreements

- University of Applied Sciences Mannheim (GERMANY).
- University of Rostock (GERMANY).
- Institut National des Sciences Appliquées (INSA), Rennes (FRANCE).
- Tongji University, Shanghai (CHINA).