

Catalogue of undergraduate courses delivered in English by areas

Agricultural, Forest & Environmental Technologies

- [Applied remote sensing and GIS](#)
- [Biomics](#)
- [Bioreactors](#)
- [Immunology](#)
- [Multiple use of natural products](#)
- [Plant molecular biology](#)
- [Structure and function of woody plants](#)
- [Uses of medicinal and aromatic plants](#)
- [Unit operations in the forest industries](#)
- [Virology](#)
- [Zoology](#)

Industrial Technologies

- [Biodegradable polymers for food packaging](#)
- [Composite materials](#)
- [Drawing and sketching](#)
- [Finite element-based simulation model](#)
- [Introduction to chaos in science and technology](#)
- [Materials recycling](#)
- [Mechanics of materials III](#)
- [Mechanics of materials IV](#)
- [Nanotechnology](#)
- [Numerical calculations for engineering](#)
- [Numerical simulation](#)
- [Practical Internet of Things with Raspberry Pi](#)
- [Properties of materials II](#)
- [Quality and management](#)
- [Soft matter](#)
- [Surface Engineering](#)
- [Sustainable design](#)

Building Technology & Civil Engineering

- [History of urban law and planning](#)

Management and Spanish Culture

- [Business management basics \(ICT\)](#)
- [Intellectual capital and knowledge management](#)
- [Spanish language](#)
- [Women in science and technology](#)

Information & Communication Technologies

- [Analog electronics](#)
- [An introduction to electronics](#)
- [Artificial intelligence and new open science in research software engineering](#)
- [Basic circuit analysis](#)
- [Biomedical digital signal processing](#)
- [Calculus \(Computer Engineering\)](#)
- [Calculus \(Telecommunications Engineering\)](#)
- [Communications electronics](#)
- [Concurrent and advanced programming](#)
- [Digital electronics](#)
- [Digital signal processing](#)
- [Distributed systems](#)
- [Dynamical systems](#)
- [Electromagnetics](#)
- [Embedded system design with Raspberry Pi](#)
- [Human-computer interaction](#)
- [Image understanding](#)
- [Information coding](#)
- [Information security](#)
- [Introduction to biocomputing](#)
- [Introduction to artificial intelligence in the cloud](#)
- [Introduction to machine learning](#)
- [Logic](#)
- [Mobile communications](#)
- [Multimedia](#)
- [Optical communications](#)
- [Physics I](#)
- [Physics II](#)
- [Probabilities and statistics I](#)
- [Programming I](#)
- [Programming II](#)
- [Programming language translator](#)
- [Programming project](#)
- [Programming scalable systems](#)
- [Radiation and wave propagation](#)
- [Random signals](#)
- [Real-time systems](#)
- [Semantic web, linked data and knowledge graphs](#)
- [Signals and systems](#)
- [Software quality](#)
- [Software architecture and design](#)
- [Spatial data infrastructure](#)
- [System administration](#)
- [Vector analysis](#)
- [Web development](#)

Catalogue of undergraduate courses delivered in English by Schools

UPM Campuses: Locations



Moncloa Campus



SCHOOL OF AGRICULTURAL, FOOD AND BIOSYSTEMS ENGINEERING (ETS DE INGENIEROS AGRÓNOMOS, ALIMENTACIÓN Y BIOSISTEMAS)

[Av. Puerta de Hierro, 2 – 4, 28040 Madrid](#)

[Catalogue of courses delivered in English](#)

Fall/Autumn Semester

- [Bioreactors](#)
- [Immunology](#)

Spring Semester

- [Biomics](#)
- [Plant molecular biology](#)
- [Virology](#)



SCHOOL OF BUILDING TECHNOLOGY (ETS DE EDIFICACIÓN)

[Av. Juan de Herrera, 6, 28040 Madrid, Spain](#)

[Catalogue of courses delivered in English](#)

- [History of urban law and planning](#)



SCHOOL OF CIVIL ENGINEERING – MONCLOA CAMPUS (ETS DE INGENIEROS DE CAMINOS, CANALES Y PUERTOS)

[C/ Prof. Aranguren, s/n, 28040 Madrid – Spain](#)

[Catalogue of courses delivered in English](#)

Fall/Autumn Semester

- [Composite materials](#)
- [Mechanics of materials III](#)
- [Numerical simulation](#)
- [Properties of materials II](#)
- [Soft matter](#)

Spring Semester

- [Materials recycling](#)
- [Mechanics of materials IV](#)
- [Nanotechnology](#)
- [Quality and management](#)
- [Surface engineering](#)



SCHOOL OF FOREST ENGINEERING AND NATURAL RESOURCES (ETS DE INGENIERÍA DE MONTES, FORESTAL Y DEL MEDIO NATURAL)

[C/ Antonio Novais, 10, 28040 Madrid – Spain](#)

[Catalogue of courses delivered in English](#)

Fall/Autumn Semester

- [Applied remote sensing and GIS](#)
- [Multiple use of natural products](#)
- [Structure and function of woody plants](#)
- [Unit operations in the forest industries](#)
- [Uses of medicinal and aromatic plants](#)

Spring Semester

- [Zoology](#)



SCHOOL OF TELECOMMUNICATIONS ENGINEERING (ETSI TELECOMUNICACIÓN)

[Avda. Complutense, 30, 28040 Madrid – Spain](#)

[Catalogue of courses delivered in English](#)

Fall/Autumn Semester

- [Basic circuit analysis](#)
- [Calculus](#)
- [Digital electronics](#)
- [Digital signal processing](#)
- [Electromagnetics](#)
- [Physics I](#)
- [Radiation and wave propagation](#)
- [Random signals](#)
- [Signals and systems](#)

Spring Semester

- [Analog electronics](#)
- [An introduction to electronics](#)
- [Business management basics](#)
- [Communications electronics](#)
- [Mathematical models](#)
- [Optical communications](#)
- [Physics II](#)
- [Spatial data infrastructure](#)
- [Vector analysis](#)

Undergraduate academic offering in English by Schools

City Centre Campus



SCHOOL OF INDUSTRIAL ENGINEERING AND DESIGN (ETS DE INGENIERÍA Y DISEÑO INDUSTRIAL)
[C/ Ronda de Valencia, 3, 28012 Madrid, Spain](#)

[Catalogue of courses delivered in English](#)

Fall/Autumn Semester

- [Intellectual capital and knowledge management](#)
- [Practical Internet of Things with Raspberry Pi](#)
- [Spanish language](#)

Spring Semester

- [Biodegradable polymers for food packaging](#)
- [Drawing and sketching](#)
- [Finite element-based simulation model](#)
- [Introduction to chaos in science and technology](#)
- [Numerical calculations for engineering](#)
- [Sustainable design](#)

South Campus



SCHOOL OF COMPUTER SYSTEMS ENGINEERING (ETS DE INGENIERÍA DE SISTEMAS INFORMÁTICOS)
[C/ Alan Turing s/n](#)
 28031 Madrid, Spain

[Catalogue of courses delivered in English](#)

Fall/Autumn Semester

- [Distributed systems](#)
- [Information Coding](#)
- [Real-time systems](#)
- [System administration](#)
- [Software quality](#)
- [Web development](#)

Spring Semester

- [Concurrent and advanced programming](#)
- [Digital signal processing](#)
- [Information security](#)
- [Programming language translator](#)
- [Software architecture and design](#)



SCHOOL OF TELECOMMUNICATIONS AND SYSTEMS ENGINEERING (ETS DE INGENIERIA Y SISTEMAS DE TELECOMUNICACIÓN)
[C/ Nikola Tesla s/n](#)
 28031 Madrid, Spain

[Catalogue of courses delivered in English](#)

Fall/Autumn Semester

- [Biomedical digital signal processing](#)
- [Introduction to machine learning](#)
- [Mobile communications](#)

Spring Semester

- [Dynamical systems](#)
- [Embedded system design with Raspberry Pi](#)
- [Introduction to artificial intelligence in the cloud](#)
- [Women in science and technology](#)

Montegancedo Campus



SCHOOL OF COMPUTER ENGINEERING (ETS DE INGENIEROS INFORMÁTICOS)
[Campus de Montegancedo s/n](#)
 28660 Boadilla del Monte, Madrid, Spain

[Catalogue of courses delivered in English](#)

Fall/Autumn Semester

- [Introduction to biocomputing](#)
- [Logic](#)
- [Programming I](#)
- [Semantic web, linked data and knowledge graphs](#)

Spring Semester

- [Artificial intelligence and new open science in research software engineering](#)
- [Calculus](#)
- [Human-computer interaction](#)
- [Image understanding](#)
- [Multimedia](#)
- [Probabilities and statistics I](#)
- [Programming II](#)
- [Programming project](#)
- [Programming scalable systems](#)