

## Catalogue of undergraduate courses delivered in English by areas

### Agricultural, Forest & Environmental Technologies

- [Biomics](#)
- [Bioreactors](#)
- [Immunology](#)
- [Multiple use of natural products](#)
- [Plant molecular biology](#)
- [Structure and function of woody plants](#)
- [Uses of medicinal and aromatic plants](#)
- [Virology](#)
- [Zoology](#)

### Industrial Technologies

- [Advanced mathematics in engineering](#)
- [Computer-aided manufacturing workshop](#)
- [Composite materials](#)
- [Design and selection of materials in 3D printing](#)
- [Design for manufacturing and assembly](#)
- [Drawing and sketching for designers and engineers](#)
- [Finite element-based simulation model](#)
- [Introduction to chaos applied to systems, processes and product design](#)
- [Introduction to mechatronic systems design](#)
- [Introduction to hybrid energy systems](#)
- [Materials recycling](#)
- [Mechanical behaviour of materials III](#)
- [Mechanics of materials IV](#)
- [Nanotechnology](#)
- [Numerical Simulation](#)
- [Photovoltaic-powered products](#)
- [Practical Internet of Things with Raspberry Pi](#)
- [Properties of materials II](#)
- [Quality and management](#)
- [Soft matter](#)
- [Surface Engineering](#)
- [Water and sustainability](#)

### Building Technology & Civil Engineering

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

### Management and Spanish Culture

- [Art, technology and society](#)
- [Intellectual capital and knowledge management](#)
- [Spanish language course](#)
- [Women in science and technology](#)

### Information & Communication Technologies

- [Analog electronics](#)
- [An introduction to electronics](#)
- [Bioinspired algorithms for optimization](#)
- [Calculus](#)
- [Concurrent and Advanced Programming](#)
- [Discrete Mathematics I](#)
- [Digital electronics](#)
- [Digital signal processing](#) (Telecommunications Engineering)
- [Digital signal processing](#) (Computer Systems Engineering)
- [Distributed systems](#)
- [Dynamical systems](#)
- [Electromagnetics](#)
- [Embedded system design with Raspberry Pi](#)
- [Embedded systems modelling](#)
- [Human-computer interaction](#)
- [Information coding](#)
- [Information security](#)
- [Introduction to biocomputing](#)
- [Introduction to artificial intelligence in the cloud](#)
- [Introduction to machine learning](#)
- [Linear algebra](#)
- [Logic](#)
- [Mobile app development](#)
- [Mobile communications](#)
- [Probabilities and statistics I](#)
- [Programming I](#)
- [Programming II](#)
- [Programming language translator](#)
- [Programming project](#)
- [Programming scalable systems](#)
- [Quantum information](#)
- [Random signals](#)
- [Signals and systems](#)
- [Software architecture and design](#)
- [Spatial data infrastructure](#)
- [System administration](#)
- [Video game development and artificial intelligence](#)
- [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

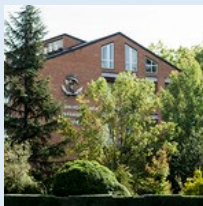
[Catalogue of courses delivered in English](#)

Fall/Autumn Semester

- [Composite materials](#)
- [Mechanical behaviour 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

- [Multiple use of natural products](#)
- [Structure and function of woody plants](#)
- [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

- [Digital electronics](#)
- [Digital signal processing](#)
- [Electromagnetics](#)
- [Random signals](#)
- [Signals and systems](#)

Spring Semester

- [Analog electronics](#)
- [An introduction to electronics](#)
- [Spatial data infrastructure](#)

## 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

- [Art, technology and society](#)
- [Computer-aided manufacturing workshop](#)
- [Design and selection of materials in 3D printing](#)
- [Intellectual capital and knowledge management](#)
- [Introduction to mechatronic systems design](#)
- [Practical Internet of Things with Raspberry Pi](#)
- [Spanish language course](#)

#### Spring Semester

- [Advanced mathematics in engineering](#)
- [Design for manufacturing and assembly](#)
- [Drawing and sketching for designers and engineers](#)
- [Finite element-based simulation model](#)
- [Introduction to chaos applied to systems, processes and product design](#)
- [Introduction to hybrid energy systems](#)
- [Photovoltaic-powered products](#)
- [Spanish language course](#)
- [Water and sustainability](#)

### 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

- [Artificial Intelligence](#)
- [Distributed systems](#)
- [Information Coding](#)
- [Quantum information](#)
- [System administration](#)
- [Video game development and artificial intelligence](#)
- [Web development](#)

#### Spring Semester

- [Concurrent and advanced programming](#)
- [Bioinspired algorithms for optimization](#)
- [Digital signal processing](#)
- [Embedded systems modelling](#)
- [Information security](#)
- [Mobile app development](#)
- [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

- [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

- [Discrete mathematics I](#)
- [Introduction to Biocomputing](#)
- [Linear algebra](#)
- [Logic](#)
- [Programming I](#)
- [Spanish for international students](#)

#### Spring Semester

- [Calculus](#)
- [Human-computer interaction](#)
- [Probabilities and statistics I](#)
- [Programming II](#)
- [Programming project](#)
- [Programming scalable systems](#)
- [Spanish for international students](#)