

Catalogue of undergraduate courses delivered in English by areas

Agricultural, Forest & Environmental Technologies

- [Biomics](#)
- [Bioreactors](#)
- [Computational Structural Biology](#)
- [Immunology](#)
- [Management and Restoration of Mediterranean Forests](#)
- [Multiple use of natural products](#)
- [Plant molecular biology](#)
- [Protein structure and engineering](#)
- [Uses of medicinal and aromatic plants](#)
- [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 materials](#)
- [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](#)
- [Professional and academic Spanish](#)
- [Spanish for international students](#)
- [Spanish language course](#)
- [Women in science and technology](#)

Information & Communication Technologies

- [Analog electronics](#)
- [An introduction to electronics](#)
- [Artificial intelligence](#)
- [Bioinspired algorithms for optimization](#)
- [Calculus](#)
- [Concurrent and advanced programming](#)
- [Developing open, interoperable semantic resources](#)
- [Digital electronics](#)
- [Digital signal processing](#) (Telecommunications Engineering)
- [Digital signal processing](#) (Computer Systems Engineering)
- [Discrete mathematics I](#)
- [Electromagnetics](#)
- [Embedded system design with Raspberry Pi](#)
- [Embedded systems modelling](#)
- [Human-computer interaction](#)
- [Information coding](#)
- [Information security](#)
- [Introduction to machine learning](#)
- [Introduction to quantum computing](#)
- [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](#)
- [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](#)
- [Protein structure and engineering](#)

Spring Semester

- [Biomics](#)
- [Computational Structural Biology](#)
- [Plant molecular biology](#)



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 materials](#)

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

- [Management and Restoration of Mediterranean Forests](#)

Spring Semester

- [Multiple uses of natural products](#)
- [Uses of medicinal and aromatic plants](#)
- [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](#)

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](#)
- [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 translators](#)
- [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

- [Embedded system design with Raspberry Pi](#)
- [Introduction to quantum computing](#)
- [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](#)
- [Linear algebra](#)
- [Logic](#)
- [Programming I](#)
- [Spanish for international students](#)

Spring Semester

- [Calculus](#)
- [Developing open, interoperable semantic resources](#)
- [Human-computer interaction](#)
- [Probabilities and statistics I](#)
- [Programming II](#)
- [Programming project](#)
- [Programming scalable systems](#)
- [Spanish for international students](#)
- [Professional and Academic Spanish](#)