Catalogue of undergraduate courses delivered in English by areas

Agricultural, Forest & Environmental Technologies
- Applied remote sensing and GIS
- Multiple use of natural products
- Structure and function of woody plants
- Uses of medicinal and aromatic plants
- Unit operations in the forest industries
- Zoology

Building Technology & Civil Engineering
- History of urban law and planning

Information & Communication Technologies
- Analog electronics
- An introduction to electronics
- Basic circuit analysis
- Biomedical digital signal processing
- Calculus
- Communications electronics
- Digital electronics
- Digital signal processing
- Digital systems
- Dynamical systems
- Electromagnetics
- Embedded system design with Raspberry Pi
- Human-computer interaction
- Image understanding
- Information coding
- Introduction to bioinformatics and biocomputing
- Introduction to machine learning
- Linux system administration
- Logic
- Multimedia
- Optical communications
- Physics I
- Physics II
- Physical and technological foundations of computer science
- Programming I
- Programming for mobile devices
- Programming scalable systems
- Radiation and wave propagation
- Random signals
- Semantic web, linked data and knowledge graphs
- Signals and systems
- Software quality
- Software Architecture and Design
- Spatial data infrastructure
- The art of programming
- Vector analysis
- Wireless communications

Industrial Technologies
- Biodegradable polymers for food packaging
- Composite materials
- Drawing and sketching
- Finite element-based simulation model
- Intellectual capital and knowledge management
- 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
- Sustainable design

Management and Spanish Culture
- Business management basics (ICT)
- Intellectual capital and knowledge management
- Spanish language
- Women in science and technology
## Catalogue of undergraduate courses delivered in English by Schools

### Moncloa Campus

<table>
<thead>
<tr>
<th>School</th>
<th>Courses</th>
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| **SCHOOL OF BUILDING TECHNOLOGY** (ETS DE EDIFICACIÓN)  
Av. Juan de Herrera, 6, 28040 Madrid, Spain | 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 | Composite materials  
Materials recycling  
Mechanics of materials III  
Mechanics of materials IV  
Nanotechnology  
Numerical simulation  
Properties of materials II  
Quality and management  
Soft matter  
Surface engineering |
| **SCHOOL OF FORESTRY ENGINEERING AND NATURAL RESOURCES** (ETS DE INGENIERÍA DE MONTES, FORESTAL Y DEL MEDIO NATURAL)  
C/ Antonio Noval, 19, 28040 Madrid – Spain | Applied remote sensing and GIS  
Multiple use of natural products  
Structure and function of woody plants  
Uses of medicinal and aromatic plants  
Uses in the forest industries  
Zoology |
| **SCHOOL OF TELECOMMUNICATIONS ENGINEERING** (ETSI TELECOMUNICACIÓN)  
Avda. Complutense, 30, 28040 Madrid – Spain | Analog electronics  
An introduction to electronics  
Basic circuit analysis  
Business management basics  
Calculas  
Communications electronics  
Digital electronics  
Digital signal processing  
Electromagnetics  
Optical communications  
Physics I  
Physics II  
Radiation and wave propagation  
Random signals  
Signals and systems  
Spatial data infrastructure  
Vector analysis |

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*Catalogue of courses delivered in English*
# 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

- Biodegradable polymers for food packaging
- Drawing and sketching
- Finite element-based simulation model
- Intellectual capital and knowledge management
- Introduction to chaos in science and technology
- Numerical calculations for engineering
- Practical Internet of Things with Raspberry Pi
- Spanish language
- Sustainable design

## South Campus

**SCHOOL OF COMPUTER SYSTEMS ENGINEERING (ETS DE INGENIERÍA DE SISTEMAS INFORMÁTICOS)**
C/ Alan Turing s/n 28660, Madrid, Spain

- Information coding
- System administration
- Software quality
- Software Architecture and Design

**SCHOOL OF TELECOMMUNICATIONS AND SYSTEMS ENGINEERING (ETS DE INGENIERÍA Y SISTEMAS DE TELECOMUNICACIÓN)**
C/ Nikola Tesla s/n 28031, Madrid, Spain

- Biomedical digital signal processing
- Dynamical systems
- Embedded system design with Raspberry Pi
- Introduction to machine learning
- Wireless communications
- 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

- Digital systems
- Human-computer interaction
- Image understanding
- Introduction to bioinformatics and biocomputing
- Logic
- Multimedia
- Physical and technological foundations of computer science
- Programming I
- Programming for mobile devices
- Programming scalable systems
- Semantic web, linked data and knowledge graphs
- The art of programming

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

- Biodegradable polymers for food packaging
- Drawing and sketching
- Finite element-based simulation model
- Intellectual capital and knowledge management
- Introduction to chaos in science and technology
- Numerical calculations for engineering
- Practical Internet of Things with Raspberry Pi
- Spanish language
- Sustainable design