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VICERRECTORADO DE INTERNACIONALIZACIÓN
RECTORADO. EDIFICIO B. Pº JUAN XXIII, 11. 28040 MADRID

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Catalogue of undergraduate courses taught 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

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

FALL/AUTUMN SEMESTER

- Distributed systems
- Information coding
- Quantum information
- System administration
- Video game development and artificial intelligence
- Web development

SPRING SEMESTER

- Bioinspired algorithms for optimization
- Concurrent and advanced programming
- 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

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

FALL/AUTUMN SEMESTER

- Discrete Mathematics I
- Introduction to biocomputing
- Linear algebra
- Logic
- Programming I
- Semantic web, linked data and knowledge graphs

SPRING SEMESTER

- Calculus
- Human-computer interaction
- Multimedia
- Probabilities and statistics I
- Programming project
- Programming II
- Programming scalable systems

CATALOGUE OF UNDERGRADUATE COURSES DELIVERED IN ENGLISH BY AREAS



AGRICULTURAL, FOREST AND ENVIRONMENTAL TECHNOLOGIES

- **Biomics**
SCHOOL OF AGRICULTURAL, FOOD AND BIOSYSTEMS ENGINEERING (MONCLOA CAMPUS)
- **Bioreactors**
SCHOOL OF AGRICULTURAL, FOOD AND BIOSYSTEMS ENGINEERING (MONCLOA CAMPUS)
- **Immunology**
SCHOOL OF AGRICULTURAL, FOOD AND BIOSYSTEMS ENGINEERING (MONCLOA CAMPUS)
- **Multiple use of natural products**
SCHOOL OF FORESTRY ENGINEERING AND NATURAL RESOURCES (MONCLOA CAMPUS)
- **Plant molecular biology**
SCHOOL OF AGRICULTURAL, FOOD AND BIOSYSTEMS ENGINEERING (MONCLOA CAMPUS)
- **Structure and function of woody plants**
SCHOOL OF FORESTRY ENGINEERING AND NATURAL RESOURCES (MONCLOA CAMPUS)
- **Uses of medicinal and aromatic plants**
SCHOOL OF FORESTRY ENGINEERING AND NATURAL RESOURCES (MONCLOA CAMPUS)
- **Virology**
SCHOOL OF AGRICULTURAL, FOOD AND BIOSYSTEMS ENGINEERING (MONCLOA CAMPUS)
- **Zoology**
SCHOOL OF FORESTRY ENGINEERING AND NATURAL RESOURCES (MONCLOA CAMPUS)



INDUSTRIAL TECHNOLOGIES

- **Biodegradable polymers for food packaging**
SCHOOL OF INDUSTRIAL ENGINEERING AND DESIGN (CITY CENTRE CAMPUS)
- **Composite materials**
SCHOOL OF CIVIL ENGINEERING (MONCLOA CAMPUS)
- **Drawing and sketching**
SCHOOL OF INDUSTRIAL ENGINEERING AND DESIGN (CITY CENTRE CAMPUS)
- **Finite element-based simulation model**
SCHOOL OF INDUSTRIAL ENGINEERING AND DESIGN (CITY CENTRE CAMPUS)
- **Introduction to chaos in science and technology**
SCHOOL OF INDUSTRIAL ENGINEERING AND DESIGN (CITY CENTRE CAMPUS)
- **Materials recycling**
SCHOOL OF CIVIL ENGINEERING (MONCLOA CAMPUS)
- **Mechanics of materials III**
SCHOOL OF CIVIL ENGINEERING (MONCLOA CAMPUS)
- **Mechanics of materials IV**
SCHOOL OF CIVIL ENGINEERING (MONCLOA CAMPUS)
- **Nanotechnology**
SCHOOL OF CIVIL ENGINEERING (MONCLOA CAMPUS)
- **Numerical calculations for engineering**
SCHOOL OF INDUSTRIAL ENGINEERING AND DESIGN (CITY CENTRE CAMPUS)
- **Numerical simulation**
SCHOOL OF CIVIL ENGINEERING (MONCLOA CAMPUS)
- **Practical Internet of Things with Raspberry Pi**
SCHOOL OF INDUSTRIAL ENGINEERING AND DESIGN (CITY CENTRE CAMPUS)
- **Properties of materials II**
SCHOOL OF CIVIL ENGINEERING (MONCLOA CAMPUS)
- **Quality and management**
SCHOOL OF CIVIL ENGINEERING (MONCLOA CAMPUS)
- **Soft matter**
SCHOOL OF CIVIL ENGINEERING (MONCLOA CAMPUS)
- **Surface Engineering**
SCHOOL OF CIVIL ENGINEERING (MONCLOA CAMPUS)

- **Sustainable design**
SCHOOL OF INDUSTRIAL ENGINEERING AND DESIGN (CITY CENTRE CAMPUS)



BUILDING TECHNOLOGY AND CIVIL ENGINEERING TECHNOLOGIES

- **History of urban law and planning**
SCHOOL OF BUILDING TECHNOLOGY (MONCLOA CAMPUS)



MANAGEMENT AND SPANISH CULTURE

- **Intellectual capital and knowledge management**
SCHOOL OF INDUSTRIAL ENGINEERING AND DESIGN (CITY CENTRE CAMPUS)
- **Spanish language**
SCHOOL OF INDUSTRIAL ENGINEERING AND DESIGN (CITY CENTRE CAMPUS)
- **Women in science and technology**
SCHOOL OF TELECOMMUNICATIONS AND SYSTEMS ENGINEERING (SOUTH CAMPUS)



INFORMATION AND COMMUNICATIONS TECHNOLOGIES

- **Analog electronics**
SCHOOL OF TELECOMMUNICATIONS ENGINEERING (MONCLOA CAMPUS)
- **An introduction to electronics**
SCHOOL OF TELECOMMUNICATIONS ENGINEERING (MONCLOA CAMPUS)
- **Bioinspired algorithms for optimization**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Calculus**
SCHOOL OF TELECOMMUNICATIONS ENGINEERING (MONCLOA CAMPUS)
- **Concurrent and advanced programming**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Digital electronics**
SCHOOL OF TELECOMMUNICATIONS ENGINEERING (MONCLOA CAMPUS)
- **Digital signal processing**
SCHOOL OF TELECOMMUNICATIONS ENGINEERING (MONCLOA CAMPUS)
- **Digital signal processing**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Discrete Mathematics I**
SCHOOL OF COMPUTER ENGINEERING (MONTEGANCEDO CAMPUS)
- **Distributed systems**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Dynamical systems**
SCHOOL OF TELECOMMUNICATIONS SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Electromagnetics**
SCHOOL OF TELECOMMUNICATIONS ENGINEERING (MONCLOA CAMPUS)
- **Embedded system design with Raspberry Pi**
SCHOOL OF TELECOMMUNICATIONS SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Embedded systems modelling**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Human-computer interaction**
SCHOOL OF COMPUTER ENGINEERING (MONTEGANCEDO CAMPUS)

- **Information coding**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Information security**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Introduction to artificial intelligence in the cloud**
SCHOOL OF TELECOMMUNICATIONS SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Introduction to biocomputing**
SCHOOL OF COMPUTER ENGINEERING (MONTEGANCEDO CAMPUS)
- **Introduction to machine learning**
SCHOOL OF TELECOMMUNICATIONS SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Linear Algebra**
SCHOOL OF COMPUTER ENGINEERING (MONTEGANCEDO CAMPUS)
- **Logic**
SCHOOL OF COMPUTER ENGINEERING (MONTEGANCEDO CAMPUS)
- **Mobile app development**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Mobile communications**
SCHOOL OF TELECOMMUNICATION SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Multimedia**
SCHOOL OF COMPUTER ENGINEERING (MONTEGANCEDO CAMPUS)
- **Probabilities and statistics I**
SCHOOL OF COMPUTER ENGINEERING (MONTEGANCEDO CAMPUS)
- **Programming I**
SCHOOL OF COMPUTER ENGINEERING (MONTEGANCEDO CAMPUS)
- **Programming II**
SCHOOL OF COMPUTER ENGINEERING (MONTEGANCEDO CAMPUS)
- **Programming language translator**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Programming project**
SCHOOL OF COMPUTER ENGINEERING (MONTEGANCEDO CAMPUS)
- **Programming scalable systems**
SCHOOL OF COMPUTER ENGINEERING (MONTEGANCEDO CAMPUS)
- **Quantum information**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Random signals**
SCHOOL OF TELECOMMUNICATIONS ENGINEERING (MONCLOA CAMPUS)
- **Semantic web, linked data and knowledge graphs**
SCHOOL OF COMPUTER ENGINEERING (MONTEGANCEDO CAMPUS)
- **Signals and systems**
SCHOOL OF TELECOMMUNICATIONS ENGINEERING (MONCLOA CAMPUS)
- **Software architecture and design**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Spatial data infrastructure**
SCHOOL OF TELECOMMUNICATIONS ENGINEERING (MONCLOA CAMPUS)
- **System administration**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Video game development and artificial intelligence**
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (SOUTH CAMPUS)
- **Web development**
SCHOOL OF TELECOMMUNICATIONS SYSTEMS ENGINEERING (SOUTH CAMPUS)

UNDERGRADUATE ACADEMIC OFFERING IN ENGLISH BY SCHOOLS

MONCLOA CAMPUS



SCHOOL OF BUILDING TECHNOLOGY

(ETS DE EDIFICACIÓN)
AV. JUAN DE HERRERA, 6, 28040 MADRID

- **History of urban law and planning**



SCHOOL OF FOREST ENGINEERING AND NATURAL RESOURCES

(ETS DE INGENIERÍA DE MONTES, FORESTAL Y DEL MEDIO NATURAL)
C/ ANTONIO NOVAIS, 10, 28040 MADRID

- 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 AGRICULTURAL, FOOD AND BIOSYSTEMS ENGINEERING

(ETS DE INGENIERÍA AGRONÓMICA, ALIMENTARIA Y DE BIOSISTEMAS)
AV. PUERTA DE HIERRO, 2-4, 28040 MADRID

- FALL/AUTUMN SEMESTER**
- Bioreactors
 - Immunology
- SPRING SEMESTER**
- Biomics
 - Plant molecular biology
 - Virology



SCHOOL OF CIVIL ENGINEERING

(ETS DE INGENIEROS DE CAMINOS, CANALES Y PUERTOS)
C/ PROF. ARANGUREN, S/N, 28040 MADRID

- 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 TELECOMMUNICATIONS ENGINEERING

(ETSI TELECOMUNICACIÓN)
AVDA. COMPLUTENSE, 30, 28040 MADRID

- FALL/AUTUMN SEMESTER**
- Calculus
 - Digital electronics
 - Digital signal processing
 - Electromagnetics
 - Random signals
 - Signals and systems
- SPRING SEMESTER**
- Analog electronics
 - An introduction to electronics
 - Spatial data infrastructure

Moncloa Campus

