Engineering School of Albacete
Castilla La Mancha University

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Outlines

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   - Location
   - Castilla La Mancha is famous for...
   - Castilla La Mancha industry

2. Castilla La Mancha University
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   - Location
   - Castilla La Mancha is famous for...
   - Castilla La Mancha industry

2 Castilla La Mancha University

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Castilla La Mancha Location

- Big region located in the center-south of Spain (under Madrid)
- It is composed of 5 provinces
- Albacete is the biggest city (160000 inhabitants)
Castilla La Mancha is famous for...

- its wine
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- our best ambassador: Don Quixote (Place d’Spagne, Brussels)
Castilla La Mancha is famous for...

- its wine

- our best ambassador: Don Quixote (Place d’Spagne, Brussels)

- its wind: in 2008 Albacete produced 80% of its energy consumption by wind energy
Castilla La Mancha industry

- Knife industry (Albacete)
Castilla La Mancha industry

- Knife industry (Albacete)

![ARCOS Fabrca de Cuchilleria](image1.jpg)

- Electronic industry: NAGARES (Cuenca)

![NAGARES Factory](image2.jpg)
Castilla La Mancha industry

- Knife industry (Albacete)
  ![Knife industry](image1.jpg)

- Electronic industry: NAGARES (Cuenca)
  ![Electronic industry](image2.jpg)

- Fuel refinery (Ciudad Real)
  ![Fuel refinery](image3.jpg)
Castilla La Mancha industry

- Knife industry (Albacete)
  - Arcos Fabrica de Cuchilleria

- Electronic industry: NAGARES (Cuenca)

- Fuel refinery (Ciudad Real)

- Eurocopter (Albacete)
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- founded in 1982
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- around 30000 students (undergraduate and graduate)
- around 2200 teaching staff
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- around 2200 teaching staff
- 55 degree programs distributed in 37 schools
Castilla La Mancha University (www.uclm.es)

- Founded in 1982
- Multi-campus university: Toledo, Ciudad Real, Albacete, Cuenca
- Around 30,000 students (undergraduate and graduate)
- Around 2,200 teaching staff
- 55 degree programs distributed in 37 schools
- 41 Master programs and 17 PhD programs
Castilla La Mancha University (www.uclm.es)

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- around 2200 teaching staff
- 55 degree programs distributed in 37 schools
- 41 Master programs and 17 PhD programs
- 28 Research centers: renewable energies, computers science, chemistry, microbiology...
Castilla La Mancha University: international relationships

- **Bilateral agreements** all around the world:
  - Europe: 40 universities
  - North America: 23 universities
  - South America: 144 universities
  - Africa and Asia: 15 universities
**Castilla La Mancha University: international relationships**

- **Bilateral agreements** all around the world:
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- **Erasmus program**: more than 350 erasmus agreements all around Europe
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Engineering School of Albacete

- Founded in 1978

Nowadays 3 bachelor degrees (4 years program, 240 ECTS), all of them will be adapted to Bologna process in 2010

- Mechanical Engineering
- Electronic and Automatic Engineering
- Electrical Engineering

A Master Program is going to be initiated in 2011

Erasmus program: we have 42 erasmus agreements with different European universities
Engineering School of Albacete

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- **Research Institute for Regional Development**
  - Materials Science and Engineering
  - Electronic Technology
  - Remote Sensing Systems

Other research activities: Enzymology and Enzyme kinetics (Chemistry-Physics Dep.), Catenary Systems in Railways (Applied Mechanics Dep.)...
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- **Research Institute for Regional Development**
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- **Renewable Energy Research Institute**
  - Fuel Cells
  - Wind Energy
  - Solar Energy

Other research activities: Enzymology and Enzyme kinetics (Chemistry-Physics Dep.), Catenary Systems in Railways (Applied Mechanics Dep.)...
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  - Solar Energy

Other research activities: Enzymology and Enzyme kinetics (Chemistry-Physics Dep.), Catenary Systems in Railways (Applied Mechanics Dep.)...
1st and 2nd year are common to the 3 degrees

1st year, 60 ECTS

- Algebra
- Calculus I
- Calculus II
- Ampliation of Mathematics
- Statistic
- Chemistry
- Physics
- Graphical Expression
- Business Administration
- Computer Science
1\textsuperscript{st} and 2\textsuperscript{nd} year are common to the 3 degrees

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- Algebra
- Calculus I
- Calculus II
- Ampliation of Mathematics
- Statistic
- Chemistry
- Physics
- Graphical Expression
- Business Administration
- Computer Science

2\textsuperscript{nd} year, 60 ECTS

- Thermodynamics and Heat Transfer
- Fluid Mechanics
- Electronics
- Elasticity and Strength of Materials
- Material Sciences
- Electric Technology
- Projects Organization
- Automatics
- Mechanisms Theory
- Industrial Production
Mechanical Engineering (3rd and 4th)

3rd year, 60 ECTS

- Graphical Expression II
- Strength of Materials II
- Fluid Mechanics II
- Thermal Engineering
- Mechanisms Theory II
- Materials Engineering
- Machines Mechanic
- Industrial Fabrication
- Theory of Structures I
- Theory of Structures II
### Mechanical Engineering (3rd and 4th)

#### 3rd year, 60 ECTS

- Graphical Expression II
- Strength of Materials II
- Fluid Mechanics II
- Thermal Engineering
- Mechanisms Theory II
- Materials Engineering
- Machines Mechanic
- Industrial Fabrication
- Theory of Structures I
- Theory of Structures II

#### 4th year, 60 ECTS

The students can choose different intensifications:

- Industrial Production
- Energy Technologies
- MechaTronic (MECHANical & ElecTRONIC)

and 1 final year thesis.
## Electronic and Automatic Engineering (3\textsuperscript{rd} and 4\textsuperscript{th})

### 3\textsuperscript{rd} year, 60 ECTS

- Network Analysis
- Analogue Electronic
- Instrumentation
- Digital Electronic I
- Digital Electronic II

- Power Electronics
- Industrial Computers
- Discrete Control
- Industrial Automatization
- Robotics

The students can choose different intensifications:
- Electronic Systems
- Electronic Design
- MechaTronic (MECHAnical & ElecTRONIC)

and 1 final year thesis.
Electronic and Automatic Engineering (3rd and 4th)

3rd year, 60 ECTS

- Network Analysis
- Analogue Electronic
- Instrumentation
- Digital Electronic I
- Digital Electronic II
- Power Electronics
- Industrial Computers
- Discrete Control
- Industrial Automatization
- Robotics

4th year, 60 ECTS

The students can choose different intensifications:

- Electronic Systems
- Electronic Design
- MechaTronic (MECHAnical & ElecTRONIC)

and 1 final year thesis.
### Electrical Engineering (3rd and 4th)

#### 3rd year, 60 ECTS
- Electrical Networks
- Electrical Machines
- Control of Electrical Machines
- Power Plants
- Electrical distribution
- Low Voltage Electrical Installations
- High Voltage Electrical Installations
- Power Electronics
- Renewable Energies
- Discrete Control

The students can choose different intensifications:
- Electrical Installations and Infrastructures
- Renewable Energies
- and 1 final year thesis.
Electrical Engineering (3rd and 4th)

3rd year, 60 ECTS

- Electrical Networks
- Electrical Machines
- Control of Electrical Machines
- Power Plants
- Electrical distribution
- Low Voltage Electrical Installations
- High Voltage Electrical Installations
- Power Electronics
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- Discrete Control

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The students can choose different intensifications:
- Electrical Installations and Infrastructures
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and 1 final year thesis.
Thanks for your attention

Castilla La Mancha University

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