ALFA LerNET Project
Castilla – La Mancha University Presentation

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Main Features and Goals

- It is a young institution born in 1985.

- Multi-campus university with faculties spread around four cities

  - Albacete

  - Ciudad Real

  - Cuenca

  - Toledo

Main Features and Goals

⊚ The improvement and development of the community it serves.

⊚ Social objectives:

  ▵ Improve people's scientific and cultural level

  ▵ Prepare qualified professionals with the needed skills

  ▵ Provide a wide educational offer to stop young people emigration

Growing Evolution

- More than 25 Departments, 34 faculties and 82 undergraduate programs

- Evolution during last 20 years:

  - Students: 6,661 (in 1985/86) $\Longrightarrow$ 31,181 (in 2004/05)

  - Faculty members: 402 (in 1985) $\Longrightarrow$ 1,956 (in 2004)

  - Budget: 1.07 (in 1985) $\Longrightarrow$ 115.31 millions euros (in 2004)

Research Activities

🌀 Our university carry out research in many knowledge areas:

- ▵ humanities, law and social sciences,

- ▵ environmental sciences,

- ▵ chemistry,

- ▵ computer science,

- ▵ medicine.

Research Activities

- Our university counts on 107 research groups

- 16 institutes for humanities, social and law research

- 8 institutes for engineering and science research

- 103 doctorate students obtained their PhD degree in 2004

Growing of Research Activities

@ Research activities have experienced a continuous growing.

@ Some data confirm this assert:

- 1316 research projects and founding reached up to 14.89 millions euros

- Research fellowships grown up to 775

- More than 900 journal and conference papers in 2004

Challenges for the Future

🌀 Research in Castilla – La Mancha University has to overcome important problems in the near future

🌀 to increase

- △ the number of EU projects (only 27 in 2004)

- △ the number of PhD thesis a year (only 103, 20 % lesser than an average university)

- △ the ratio "number of doctors per number of faculty staff" (only 60 % in 2004)

Challenges for the Future

⊚ It is necessary to improve the quality of its founding resources

Source	Budget	percentage
EU	1072	7.2 %
National	4141	27.8 %
Regional	4836	32.5 %
UCLM	1544	10.4 %
Industry	3304	22.1 %
TOTAL	14897	

The computer Science Department

◉ It is responsible for teaching 3 careers and a doctoral program. Also it gives introductory courses in computer science (for non CS-students)

◉ Doctoral program main features:

△ Great election possibilities

Courses	Credits	Research Works	Credits
17	64	34	462

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- Doctoral program main features:

  - 32 credits = 20 course credits + 12 research work credits

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- Doctoral program main features:

  - Maximum: 40 students

The computer Science Department

- Counts on 51 members: 3 full professors; 9 associate professors; 14 associate professors of technical school; 13 assistant professors; 12 instructors

- Mainly grouped together in 6 research groups

The computer Science Department: Research Groups

Group	Research lines
Alarcos	Software engineering, information systems and data bases.
Arco	Heterogeneous software-hardware systems design, distributed systems and Communications Systems.
Chico	collaborative learning systems, human computer interaction and domotic nets.
DEC^τ	Declarative languages integration and automatic program transformation.
Oreto	Knowledge-based systems, machine learning, fuzzy systems.
QC	Computational Chemistry.

The Alarcos Research Group

- Mainly investigates how to test the quality of Information Systems

- It has 14 members and 3 research fellows

- Some of its research lines comprise:

  - application of metrics for measuring software quality

  - design, maintenance and security of Information Systems

The Arco Research Group

- Investigates methods and tools to integrate and communicate Hardware-Software Systems

- It has 8 members and 11 research Assistant

- It is currently working on the following research areas:

  - Heterogeneous (Hardware-Software) System Design

  - Advanced Communication Services

The Oreto Research Group

- Its investigation is focused in some specific areas of Artificial Intelligence

- It has 12 members and 5 research fellows

- Some of its research lines comprise:

  - Machine Learning

  - Collaborative Learning

  - Fuzzy Modeling

The DEC$^{\tau}$ Research Group

⊚ It is working on the integration of declarative languages and program transformation

⊚ It has 5 members and 3 research fellows

⊚ Some current research lines:

- narrowing strategies and their combination with other operational mechanisms

- program transformation

- implementation techniques