

# What will you learn in this double degree?

- Algebra, Mathematical Analysis, Geometry and Topology
- **Statistics and Operations Research**
- Applied Mathematics
- Computer applications development
- Computer networks
- Web technologies and Databases
- Artificial intelligence
- Computer security
- Computer projects management

And, above all, how to be a mathematician and an engineer.



Metrovalencia. Line 4 (Vicent Andrés Estellés o À Punt stop) EMT. Line 63 (Xàtiva - Noves Facultats) Metrobus. Line 165 (Quart de Poblet - Manises - Paterna - Burjassot) Valenbisi 🚮 Mibisi 🧿 Bike lane València – Burjassot

Universitat de València Facultat de Ciències Matemàtiques Campus de Burjassot - Paterna

Dr. Moliner, 50 46100 Burjassot, València

Tel. 963 544 569 (Secretaría) Mail - fac.matematiques@uv.es

Universitat de València **ETSE-UV** Campus de Burjassot - Paterna

Avda. de la Universidad s/n 46100 Burjassot, València

Tel. 963 543 211 (Secretaría) Mail - etse@uv.es

## Study the double degree in Mathematics / Computer Engineering at the UV

DG MCE

- Extensive practical training
- Small groups
- Highly equipped laboratories
- Work placements / Internships
- International mobility

#### Who is it addressed to?

- Baccalaureate students of Science and Technology
- Students interested in mathematics as a basic and applied science that can develop the information and communication technologies
- Students with the ability to solve problems and propose solutions

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www.uv.es/double-degree/mathematics-computer-engineering

In an era marked by the digital revolution, there is a growing demand for people with complete mathematical training who also know engineering methodologies to contribute to the development and use of information and communication technologies. The double degree program provides a strong training that combines these two aspects, also providing the necessary skills and abilities to understand and exploit the existing interrelationships between mathematics and computer engineering.

Accept the double challenge.

# Double Degree in Mathematics **Computer Engineering**



ETSE-UV FACULTAT DE CIENCIES **MATEMATIQUES** 

> Vniversitat d València







	Programme		The double degree lasts 5 years.		
	General Mathematics	Applied Mathematics and Statistics	(351 ECTS) Engineering	Software development, IS and Al	Computer, systems and networks
1°	Linear algebra and geometry I     Mathematical analysis I	· Basic statistics	· Physics · Business	Informatics     Programming     Logic and discrete     Mathematics	Computer     Technology     Fundamentals of computers
<b>2</b> °	Linear algebra and geometry II     Mathematical analysis II     Topology     Algebraic structures	Mathematical programming     Numerical Methods for linear algebra     Ordinary differential equations	· Ethics. Legislation and profession	Algorithms and data structures	
3°	- Classic differential geometry	Numerical approximation     Probability	· Software engineering I	Human Computer     Interaction     Operating systems     Automata and     formal languages     Databases	Computer structure     Computer organization     Fundamentals of computer networks
4°	· Hilbert spaces and Fourier analysis	· Partial Differential Equations	Project management     Software engineering II	Programming languages     Web apps development     Database management     Intelligent systems	Computer architecture     Computer network     architecture     Computer security
5°	Mathematical analysis IV     Algebraic equations	Numeric calculus     Mathematical statistics	Business techniques     Company Internships     Final Project		· System administration maintenance

#### Final project

Choose your subject and professor and/or a company.

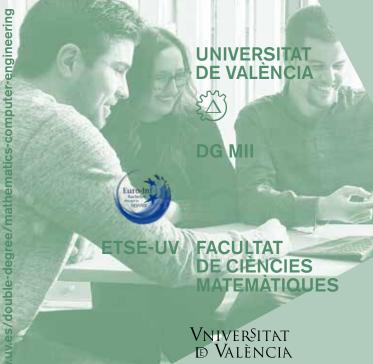
### International mobility

Ample opportunities of international mobility. Agreements with +100 foreign universities.

#### Work placements / Internships

Choose your work placement among +100 sector companies. Minimum duration: 260 hours.

# **Double Degree in Mathematics / Computer Engineering**



## **Career opportunities**

- Computer systems analyst and software developer
- IT systems and networks administrator
- IT service designer
- Database administrator
- Technological Consultant, Expert or Auditor
- Technology manager
- Data Analyst
- Financial analyst
- Statistician
- Teacher
- Researcher, R+D+I responsible

## Connection with postgraduate studies

- Master's Degree in Bioinformatics
- Master's Degree in Biostatistics
- Master's Degree in Web Technologies, Cloud Computing and
- **Mobile Applications**
- Master's Degree in Mathematical Research
- Master's Degree in Data ScienceDoctoral Programme in Mathematics
- Doctoral Programme in Information Technologies, **Communications and Computing**
- Doctoral Programme in Statistics and Optimisation

#matematicasuv #etseuv www.uv.es/matematicas

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