

Multi-interdisciplinary Fashioned Engineering Education in Spain

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The Third Engineering Education Discipline Construction Seminar
Tsinghua University, November 2023

Universitat Politècnica de València (UPV) **UPV Campus - Valencia**



Spain



Main Campus in Valencia
Madrid: 350 kms (1h40 train)
Barcelona: 350 kms (2h30 train)

Multidisciplinary

involving different subjects of study in one activity.

Relating to or involving people from different types of work or who have different types of knowledge, e.g. “A multidisciplinary team of scientists is working to develop new technologies”, “a multidisciplinary activity/approach”, “a multidisciplinary consultancy/partnership/program”

Interdisciplinarity

the fact of involving two or more different subjects or areas of knowledge

Interdisciplinarity and collaboration across faculties and between departments are strong features of research activity within the university.

In general, an organization can make a case for the interdisciplinarity of an organization in order for it to be more responsive, inclusive and innovative.

All Technical, Engineering and Science-oriented degrees in Europe fit within the European Higher Education Area EHEA.

All qualifications are structured according to three 'cycles' defined as part of the Bologna Process:

- Bachelor's degrees, in 3 or 4 years. A Bachelor's degree should prepare for further study, as well as for skilled employment.
- Master's degrees, in 1 or 2. A Master's degree develops professional and research competences. A Master's degree may be research-focused or more modular and assessed by coursework and/or exams.
- Doctoral studies, in 3 or 4 years. A PhD is required to work in academia, and is useful to become a specialist in a particular field, or an industry researcher.

Most Bachelor and Master programme allow, and in some cases may require, a period of time working in industry or working on industry-related projects.

In Spain, the National Agency for Quality Assessment and Accreditation (Agencia Nacional de la Evaluación de la Calidad y Acreditación ANECA) is the authorised national body responsible for the quality of the Spanish higher education system. It was created as a foundation in 2002 and there are some regional agencies that assume the accreditation (and quality levels) of university programs in their respective regions:

- ACPUA, in Aragon
- ACSUCYL, in Castile and Leon
- ACSUG, in Galicia
- AQU, in Catalonia
- AVAP, in Valencian Community
- DEVA-AAC, in Andalusia
- FCM Madridasd, in Community of Madrid
- Unibasq, in Basque Country
- ACCUEE, in Canary Islands

With the Bologna Process in mind, Spain promoted the reform of its domestic higher education degree system from a previous "3+2+2" years to a general "4+1+3" system, with some exceptions (Industrial Engineering and Aerospace/Aeronautic Engineering where the 4+2+3 is mostly applied). Neither does it align by no distinction between research and applied science universities. In Spain there are four technical universities:

- Universidad Politécnica de Madrid UPM
- Universitat Politècnica de Catalunya UPC
- Universitat Politècnica de València UPV
- Universidad Politécnica de Cartagena UPCT

They are totally independent, Their focus and accreditation systems for engineering degrees follow the same criteria as when delivered at any other Spanish university

The decrees regulating the Bachelor and Master degrees in engineering education are published in the State Official Journal (Boletín Oficial del Estado BOE) and are respectively:

BOE 2007-22447	Building Technical Engineer
BOE 2009-2735	Mining Technical Engineer
BOE 2009-2736	Civil Public Technical Engineer
BOE 2009-2737	Aeronautical Technical Engineer
BOE 2009-2738	Roads, Canals and Ports Engineer
BOE 2009-2739	Mining Engineer
BOE 2009-2740	Industrial Engineer
BOE 2009-2741	Aeronautical Engineer
BOE 2009-2803	Agricultural Technical Engineer
BOE 2009-2804	Forestry Technical Engineer
BOE 2009-2805	Agricultural Engineer
BOE 2009-2806	Forestry Engineer
BOE 2009-2892	Naval Technical Engineer
BOE 2009-2893	Industrial Technical Engineer
BOE 2009-2894	Telecommunication Technical Engineer
BOE 2009-2895	Topography Technical Engineer
BOE 2009-2896	Naval and Marine Engineer
BOE 2009-2897	Telecommunications Engineer
BOE 2010-12269	Architect



Vital and intellectual dynamism, arts, innovation, technological progress, entrepreneurial attitude, knowledge transference, internationalisation, and talent are the hallmarks of the Universitat Politècnica de València.

Society brings new local and global challenges that we face daily by innovating sustainably and effectively through research and technological development, even in disruptive ways. At our three campuses in Alcoy, Gandia, and Vera, the UPV offers innovation, commitment, and excellence in hybrid teaching spaces and state-of-the-art laboratories to incoming students from everywhere, allowing them to reach their professional and personal success. This combination of talent and personal attention makes us a university community without limits. As inscribed on our crest, *ex technica progressio*, we trust in technology to achieve progress.

UPV

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About UPV

- UPV consists of :
- 42 departments,
 - 14 schools and faculties,
 - 46(+42) research units distributed over three campuses.

In total, there are more than 110 buildings that account for a built area of 694,621 m²: from greenhouses and small Valencian barracks to hangars, state-of-the-art laboratories and modern futuristic-style pavilions.

UPV

Departments are both teaching and research units.

Each of the 42 departments of the UPV is responsible for coordinating the teaching of one or more fields of knowledge and for supporting the research activities of the teaching staff.

Agroforest Ecosystems – Animal Science - Applied Linguistics - Applied Mathematics - Applied Physics - Applied Statistics and Operational Research, and Quality - Architectural Composition - Architectural Constructions - Architectural Projects - Audiovisual Communication, Documentation and History of Art

Biotechnology - Business Organisation - Cartographic Engineering, Geodesy and Photogrammetry – Chemical and Nuclear Engineering – Chemistry – Communications - Computer Engineering - Computer Systems and Computation - Conservation and Restoration of Cultural Heritage - Construction Engineering and Civil Engineering Projects – Drawing

Economics and Social Sciences - Electrical Engineering - Electronic Engineering - Engineering Projects Food Technology - Geological and Geotechnical Engineering - Graphic Expression in Architecture - Graphics Engineering - Hydraulic Engineering and Environment - Mechanical and Materials Engineering

Mechanics of Continuous Media and Theory of Structures – Painting - Plant Production - Rural and Agrifood Engineering – Sculpture - Systems Engineering and Automation - Textile and Paper Engineering - Thermal Engines and Machines - Transport Infrastructure and Engineering - Urbanism

The Vera campus is pedestrianized, measures almost 2 km from one end to the other and is home to 125,000 m² of green areas.



School of Architecture
School of Agricultural Engineering and Environment
School of Design Engineering
School of Building Engineering
School of Engineering in Geodesy, Cartography and Surveying
School of Informatics
School of Civil Engineering
School of Industrial Engineering
School of Telecommunications Engineering
Faculty of Business Administration and Management
Faculty of Fine Arts
Doctoral School

Alcoy Campus Site

The Alcoy campus combines history, nature and culture, in one of the areas of greatest landscape and ecological value in the Valencian Community.



The Higher Polytechnic
School of Alcoi

Gandia Campus Site

Gandia ofrece idénticas oportunidades y, además, tiene 300 días de sol al año y un campus a pie de playa.



The Higher Polytechnic
School of Gandia

Bachelor's Degree in Aerospace Engineering
School of Design Engineering

Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Aeronautical Engineering (via Bachelor's Degree in Aerospace Engineering) - It qualifies for the profession of Aeronautical Engineer

Bachelor's Degree in Agricultural and Biological Engineering
School of Agricultural Engineering and Environment

Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Agronomic Engineering (via Bachelor's Degree in Agricultural and Biological Engineering) - It qualifies for the profession of Agronomist Engineer

Bachelor's Degree in Audiovisual Communications
Higher Polytechnic School of Gandia

Bachelor's Degree in Biomedical Engineering
School of Industrial Engineering

Bachelor's Degree in Biotechnology
School of Agricultural Engineering and Environment

Bachelor's Degree in Business Administration and Management
Faculty of Business Administration and Management
Higher Polytechnic School of Alcoi



Bachelor's Degree in Chemical Engineering
Higher Polytechnic School of Alcoi
School of Industrial Engineering

Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Chemical Engineering -

Bachelor's Degree in Civil Engineering
School of Civil Engineering

Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Civil Engineering (via Bachelor's Degree in Civil Engineering) - It qualifies for the profession of Civil Engineer

Bachelor's Degree in Civil Engineering
School of Civil Engineering

Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Civil Engineering (via Bachelor's Degree in Civil Engineering) - It qualifies for the profession of Civil Engineer

Bachelor's Degree in Conservation and Restoration of Cultural Heritage
Faculty of Fine Arts

Bachelor's Degree in Data Science
School of Informatics

Bachelor's Degree in Design and Creative Technologies
Faculty of Fine Arts

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Bachelor's Degree in Digital and Multimedia Technology
School of Telecommunications Engineering

Bachelor's Degree in Electrical Engineering
Higher Polytechnic School of Alcoi
School of Design Engineering

Bachelor's Degree in Energy Engineering
School of Industrial Engineering

Bachelor's Degree in Engineering Physics
School of Telecommunications Engineering

Bachelor's Degree in Environmental Sciences
Higher Polytechnic School of Gandia

Bachelor's Degree in Fine Arts
Faculty of Fine Arts

Bachelor's Degree in Food Science and Technology
School of Agricultural Engineering and Environment



Bachelor's Degree in Forest and Environmental Engineering

School of Agricultural Engineering and Environment

Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Forest Engineering (via Bachelor's Degree in Forest and Environmental Engineering) - It qualifies for the profession of Forestry Engineer

Bachelor's Degree in the Fundamentals of Architecture

School of Architecture

Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Architecture - It qualifies for the profession of Architect

Bachelor's Degree in Geomatic and Surveying Engineering

School of Engineering in Geodesy, Cartography and Surveying

Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Geomatics and Geoinformation Engineering (via Bachelor's Degree in Geomatic and Surveying Engineering) -

Bachelor's Degree in Industrial Computing and Robotics

Higher Polytechnic School of Alcoi

School of Informatics

Bachelor's Degree in Industrial Design Engineering and Product Development

Higher Polytechnic School of Alcoi

School of Design Engineering

Bachelor's Degree in Industrial Electronics and Automation Engineering
School of Design Engineering

Bachelor's Degree in Industrial Engineering
School of Industrial Engineering

Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Industrial Engineering (via Bachelor's Degree in Industrial Engineering) - It qualifies for the profession of Industrial Engineer

Bachelor's Degree in Industrial Organization Engineering
School of Industrial Engineering

Bachelor's Degree in Informatics Engineering
Higher Polytechnic School of Alcoi
School of Informatics

Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Informatics Engineering -

Bachelor's Degree in Interactive Technologies
Higher Polytechnic School of Gandia

Bachelor's Degree in Interior Architectural Design
School of Architecture



Bachelor's Degree in Mechanical Engineering
Higher Polytechnic School of Alcoi
School of Design Engineering

Bachelor's Degree in Public Administration and Management
Faculty of Business Administration and Management

Bachelor's Degree in Technical Architecture
School of Building Engineering
Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Construction -

Bachelor's Degree in Telecommunications Technologies and Services Engineering
School of Telecommunications Engineering
Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Telecommunication Engineering (via Bachelor's Degree in Telecommunication Technologies and Services Engineering) -

Bachelor's Degree in Telecommunications Systems, Sound and Image Engineering
Higher Polytechnic School of Gandia
Back-to-back academic programmes: (Bachelor's Degree + Master's Degree) - PARS in Telecommunication Engineering (via Bachelor's Degree in Telecommunication Systems, Sound and Image Engineering) (Gandia-Vera) -

Bachelor's Degree in Tourism
Higher Polytechnic School of Gandia

Bachelor's Degree in Transportation and Logistics Management
School of Civil Engineering



- UPV double degrees (5 years x 72 ECTS = 360 ECTS)

- Double Bachelor's Degree in Mathematics + Geomatics and Topography Engineering
- Double Bachelor's Degree in Administration and Direction of Businesses + Food and Science Technology
- Double Bachelor's Degree in Administration and Direction of Businesses + Informatics Engineering
- Double Bachelor's Degree in Administration and Direction of Businesses + Telecommunication Services and Technologies Engineering
- Double Bachelor's Degree in Administration and Direction of Businesses + Tourism
- Double Bachelor's Degree in Biotechnology + Rural Environment and Agro-Food Engineering
- Double Bachelor's Degree in Data Science + Industrial Organization Engineering
- Double Bachelor's Degree in Rural Environment and Agro-Food Engineering + Food Science and Technology
- Double Bachelor's Degree in Agro-Food Engineering + Environmental Sciences
- Double Bachelor's Degree in Telecommunication Systems, Sound and Image Engineering + Audio-visual Communication
- Double Bachelor's Degree in Administration and Direction of Businesses + Mathematics
- Double Bachelor's Degree in Mathematics + Telecommunication Engineering
- Double Bachelor's Degree in Mathematics + Informatics Engineering



Schools assign subjects to Departments – may be changed in the future depending on performance

	Dep 1	Dep 2									Dep. 42
Bach 1	X		X					X			X
Bach 2		X			X			X		X	
	X		X		X			X		X	
	X				X			X		X	
							X	X		X	
			XX		X						X
Bach 39	X							X			X

Research structures

Departments and university research institutes

- Departments
- University research institutes
- University research institutes and research centres sorted by field of work

Research bodies at UPV

- Research centres
- Units of conjoint investigation (UIC)

Research support structures

- Electron Microscopy
- Radiation Service
- Office for the Promotion of Research, Innovation and Technology Transfer
- R&D and Innovation Management

University research institutes

University research institutes are highly valued centres devoted to either artistic, technical and/or scientific research. They are regulated by the local Government according to the constitutional law on universities (LOU). They can either be only UPV-regulated -comprising UPV staff- or joint research institutes -created in co-operation with other private or public organisations by means of a signed agreement.

University institutes

- ❖ Animal Science and Technology University Research Institute (ICTA)
- ❖ Automatics and Industrial Informatics University Research Institute (ai2)
- ❖ Energy Engineering University Research Institute (IIE)
- ❖ Food Engineering Research Institute (FoodUPV)
- ❖ Heritage Restoration University Research Institute (IRP)
- ❖ Industrial, Radiophysical and Environmental Safety University Research Institute (ISIRYM)
- ❖ Information and Communication Technologies University Research Institute (ITACA)
- ❖ Multidisciplinary Mathematics University Research Institute (IMM)
- ❖ Nanophotonic Technology University Research Institute (NTC)



- Preservation and Improvement of Valencian Agro-diversity University Research Institute (COMAV)
- Pure and Applied Mathematics University Research Institute (IUMPA)
- Research in Human-Centred Technology University Research Institute (I3B)
- Science and Technology of Concrete University Research Institute (ICITECH)
- Telecommunication and Multimedia Applications University Research Institute (ITEAM)
- University Research Institute CMT-Clean Mobility&Thermofluids
- Valencian Research Institute for Artificial Intelligence (VRAIN)
- Water and Environmental Engineering University Research Institute (IIAMA)

Joint and associated university institutes

- Chemical Technology Joint Research Institute (ITQ)
- Computer Technology Joint Research Institute (ITI)
- Mechanical and Biomechanical Engineering University Research Institute (I2MB)
- Plant Molecular and Cellular Biology Joint Research Institute (IBMCP)

Inter-university research Institutes

- Molecular Recognition and Technological Development Inter-University Research Institute (IDM)



Research centres

The research structures under the UPV label encompass all those centres that work in research, development and innovation, and try to respond to the demands - of both the University and the social environment - for technological and artistic products. They fall into three categories: UPV's own (unshared) research centres, joint and associated research centres, and inter-university research centres.

Research centres

- Advanced Centre for Food Microbiology
- Art and Environment Centre
- Business Management Research Centre (CEGEA)
- Center for Biomaterials and Tissue Engineering
- Centre for Physics Technologies: Acoustics, Materials and Astrophysics
- Centre for Quality and Change Management
- Centre for Research and Innovation in Bioengineering
- Centro de Investigación Acuicultura y Medio Ambiente
- Design Institute for Automated Production and Manufacturing Systems
- Economic Engineering Research Centre
- Graphics Technologies Research Centre
- Institute of Transport and Territory
- Materials Technological Institute



Research centres

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Research centres

- Mediterranean Agroforestry Institute
- Production Management and Engineering Research Centre
- Project Management, Innovation and Sustainability Research Center
- Research Center Architecture, Heritage and Management for Sustainable Development
- Research Center of Building Technology
- Research Centre of Pattern Recognition and Human Language Technology
- Research Institute for Integrated Management of Coastal Areas
- Valencian Centre for Irrigation Studies

Joint and associated research centres

- Institute of Electrical Technology
- Institute for the Management and Innovation of Knowledge
- Institute for Molecular Imaging Technologies



- Interdisciplinarity evolution

- Llobregat Gómez, Nuria.
Stem subjects face the Haptic Generation: the IScholar. 20/02/20 (Dir. Sánchez Ruiz, Luis Manuel)
- Mínguez Aroca, Francisco Dimas.
Computational assessing model based on performance and dynamic assignment of curriculum contents. 19/01/16 (Dir. Sánchez Ruiz, Luis Manuel)
- Martínez Díaz, Rafael.
Análisis, Propuesta y desarrollo de técnicas de medición objetiva en imágenes 123/-Mibg, para pacientes con neuroblastoma . 02/12/15 (Dir. Sánchez Ruiz, Luis Manuel)
- Morales González, María Isabel.
Estudio de algunas condiciones de tonelación en espacios localmente convexos. 19/07/02 (Dir. Sánchez Ruiz, Luis Manuel)

- **UPV 88 master degrees with**

Erasmus Mundus Master Programme in Plant Breeding - emPLANT +
Preservation and Improvement of Valencian Agro-diversity University Research Institute (COMAV)

Erasmus Mundus Master of Science in Textile Engineering
Higher Polytechnic School of Alcoi

European Master Degree in Plant Health in Sustainable Cropping Systems
Dept. of Agroforest Ecosystems

European Master Degree in Waves, Acoustics, Vibrations, Engineering and Sound
Higher Polytechnic School of Gandia

- UPV 10 interuniversity master degrees

- Master's Degree in Animal Genetics and Breeding, and Reproductive Biotechnology
Dept. of Animal Science
- Master's Degree in Aquaculture
Dept. of Animal Science
- Master's Degree in Biomedical Engineering
School of Industrial Engineering
- Master's Degree in Cooperation to the Development
Dept. of Engineering Projects
- Master's Degree in Cultural Management
Dept. of Audiovisual Communication, Documentation and History of Art
- Master's Degree in Environmental Engineering
School of Civil Engineering
- Master's Degree in Forest Fires, Science and Integral Management
School of Agricultural Engineering and Environment
- Master's Degree in Green Chemistry
Chemical Technology Joint Research Institute (ITQ)
- Master's Degree in Mathematical Research
Dept. of Applied Mathematics
- Master's Degree in Science, Technology and Innovation Studies
Dept. of Engineering Projects

- UPV Double Master Degrees

- Agricultural Engineering+ Biosystems and Landscape Engineering
- Forest Engineering+ Biosystems and Landscape Engineering
- Agricultural Engineering + Agrifood and Environmental Economy
- Agricultural Engineering + Enology
- Agricultural Engineering + Food Science and Engineering
- Agricultural Engineering + Health and Vegetable Production
- Agricultural Engineering + Management and Food Safety
- Agricultural Engineering + Plant Molecular and Cellular Biotechnology
- Agricultural Engineering + Precision Livestock Farming
- Civil Engineering + Concrete Engineering
- Civil Engineering + Hydraulic Engineering and Environment
- Civil Engineering + Planning and Management in Civil Engineering
- Civil Engineering + Transportation, Land and Urban Planning
- Telecommunications Engineering + Electronic Systems Engineering
- Telecommunications Engineering + Telecommunication Technologies, Systems and Networks
- Industrial Engineering + Nuclear Safety and Radiation Protection

- A dual triple Bachelor's degree program

- Laurea in Ingegneria Gestionale, Università degli Studi di Parma (UNIPR),
- BS in Industrial Engineering degree, New Jersey Institute of Technology (NJIT)
- Ingeniería Técnica Industrial especialidad Mecánica, Universitat Politècnica de València (UPV).

The participating students from these 3 institutions, after studying 2 years in their home university, studied select courses at UPV during first semester of Year 3, followed by one semester at UNIPR, and a full academic year at NJIT. After successfully following this programme, the 3 diplomas were given



About EPS

European Project Semester

European Project Semester (EPS) is a programme offered by several European universities to students who have completed at least two years of study. EPS is created with engineering students in mind, but other students who can participate in an engineering project are also welcome.

EPS is a mixture of "Project Related Courses" and project organized/problem based learning. It is crafted to address the design requirements of the degree and prepare engineering students with all the necessary skills to face the challenges of today's world economy. Students work in international and interdisciplinary teams of 3–6 students on their projects. Projects are done in cooperation with commercial businesses and industries or with research centers. There are minor differences between EPS-projects and the various EPS-providers, but all providers have agreed about the following key elements.

UPV



EPS providers

AUSTRIA: St. Pölten University of Applied Sciences

BELGIUM: AP University College Antwerp, University of Antwerp

FINLAND: Novia University of Applied Sciences

FRANCE: Ecole Nationale d'Ingénieurs de Tarbes

GERMANY: Kiel University of Applied Sciences, Hochschule Osnabrück, HS Augsburg

NETHERLANDS: The Hague University of Applied Sciences, Avans University of Applied Sciences, Saxion University of Applied Sciences

NORWAY: OsloMet – Oslo Metropolitan University

POLAND: Lodz University of Technology

PORTUGAL: Instituto Superior de Engenharia do Porto

ROMANIA: University Politehnica of Bucharest

SPAIN: Universitat Politècnica de València, Vilanova i la Geltrú School of Engineering (Universitat Politècnica de Catalunya)

UK: Glasgow Caledonian University, Nottingham Trent University

European Project Semester (EPS) is a programme offered by several European universities to students who have completed at least two years of study. EPS is created with engineering students in mind, but other students who can participate in an engineering project are also welcome.



All EPS providers have agreed about the following key elements, (<http://europeanprojectsemester.eu/>):

- Semester lasts 15 weeks minimum
- EPS is project centered
- Working language is English
- 30 ECTS per semester are offered in total, whereof the project covers min. 20 ECTS, accompanying subjects 5 to 10
- Accompanying subjects must support the project subject English and a basic crash course in the local language must be an option.
- Subjects include Teambuilding and Project Management
- Project groups are composed multinational, group size 3-6 students, min. 3 nationalities multidisciplinarily desired
- Main focus in EPS is team work
- Project supervision focuses on the process as well as the product
- EPS must have continuous assessment including an Interim report and a final report.



Semester

SPRING / FALL



Country

SPAIN



City

VALENCIA

Universitat Politècnica de València, Spain

Detailed information via the university website

In EPS, an international team of students work on a real-life project that matches their area of study and field of interest. The project is supported by a study programme. EPS is hosted by Escuela Técnica Superior de Ingeniería del Diseño. Subjects (10 ECTS) + project (20 ECTS) carried out by intercultural and multidisciplinary teams of students.

Subjects

- Communication Skills
- Teambuilding and intercultural skills
- Project management & planning
- Systematic Innovation/Engineering Product Design

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Universitat Politècnica de
València



Camí de Vera, s/n

46022 Valencia

Spain

[Link to website](#)

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Personal record



Sánchez Ruiz, Luis Manuel

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Affiliation

Centre	School of Design Engineering
Department	Dept. of Applied Mathematics
Category	Catedrático/a de Universidad PDI
Research	Centro de Investigación en Tecnologías Gráficas
Position	Dtor/a Área: Relaciones con Iberoamérica

+ Academic Board Member of BEng Aerospace Engineering (CAT)
Group of Innovative Methodologies For Assessment in Engineering education (GRIM4E)

UPV has got two Campuses of International Excellence: 5H and VLC/Campus

The Spanish program International Campus of Excellence is a governmental action that started in 2009 with the University 2015 Strategy. The aim of this action was to modernise and increase the quality of the Spanish universities

The programme aimed to promote partnerships between universities and other institutions to create a "knowledge ecosystem" that favours employment, social cohesion and territorial economic development.

Each Campus of Excellence brings together different universities to interact with their research and technology centres, in order to foster environments of education, research and innovation that contribute to the economic and social development of the regional environment.

The aim of the programme is to create quality university living environments and services, as well as to improve environmental sustainability and attract the participation of students and researchers in order to place scientific centres and companies with high added value on university campuses.

The campuses that are part of the Campus of Excellence program must have specialized areas where they can develop their strategic lines, and have scientific infrastructures and facilities within the university campus.



Propósito Grupos Patrocinadores Noticias Descargas Calendario Contacto

Asociaciones Científicas y tecnológicas Culturales Diseño y Arte Medioambiental y sostenibilidad Motor y aviación



Grupos

Generación Espontánea está compuesto por más de 2000 estudiantes, incluyendo estudiantes de la UPV, alumni, profesores, profesionales y estudiantes de otras universidades de Valencia, España e internacionales.

Organizados en más de 50 grupos, los equipos disponen del apoyo de la UPV y de la comunidad universitaria para hacer de sus sueños una realidad. ¡Tú también puedes ser parte!

Asociaciones

ACM UPV Chapter

El equipo de ACM se compone principalmente de estudiantes de la ETSINF interesados en ampliar su formación. Las cualidades...

[Ver grupo →](#)

180 Degrees Consulting Valencia

Únete a 180 Degrees Consulting, la consultoría universitaria más grande del mundo para organizaciones sin ánimo de lucro y...

[Ver grupo →](#)

LideraT

LideraT es un grupo de estudiantes de la UPV con el objetivo de proveer a los estudiantes de una formación complementaria a la que se...

[Ver grupo →](#)



Propósito Grupos Patrocinadores Noticias Descargas Calendario Contacto

Asociaciones Científicas y tecnológicas Culturales Diseño y Arte Medioambiental y sostenibilidad Motor y aviación

experiencia Erasmus sea inolvidable.

Esta iniciativa de voluntariado está dirigida a los estudiantes Erasmus de nuestra ciudad y, en nombre de la Erasmus Student Network. ESN...

[Ver grupo →](#)



universitarios
al campo de la...

[Ver grupo →](#)

intercambio de estudiantes de prácticas. Te ofrecemos la...

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Debat UPV

Hablar en público es todo un reto, ¿verdad? Salir a defender el TFG, presentar un proyecto o incluso afrontar una entrevista de trabajo...

[Ver grupo →](#)



BEST Valencia

BEST (Board of European Students of Technology) es una organización a nivel europeo, no gubernamental y sin ánimo de lucro formada ...

[Ver grupo →](#)

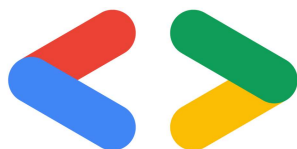


AEGEE Valencia

AEGEE (Association des États Généraux des Étudiants de l'Europe) es la mayor asociación de estudiantes de Europa cuyo propósito es el...

[Ver grupo →](#)

Científicas y tecnológicas



INNOVA
P H Y S I C S



multidisciplinar que busca
acercar la tecnología y la...

[Ver grupo →](#)



presentación en...

[Ver grupo →](#)

principal objetivo es mejorar...

[Ver grupo →](#)



μEngineers

Hola!! Somos μEngineers un grupo de estudiantes procedentes de una gran variedad de titulaciones que tenemos un objetivo en...

[Ver grupo →](#)



Astro UPV

Astro UPV es un grupo astronómico en la UPV con el objetivo de crear un observatorio a pequeña escala desde donde poder...

[Ver grupo →](#)



Eulerianos UPV

Eulerianos UPV es un grupo de preparación de olimpiadas que ha sido creado con el fin de participar en diversas competiciones matemáticas...

[Ver grupo →](#)



Plutón UPV

Pluton UPV es un proyecto multidisciplinar de estudiantes de la Universitat Politècnica de València (UPV) cuyo objetivo es el diseño,...

[Ver grupo →](#)



Competitive Programming UPV

¡Desafíos de Programación en Discord y mucho más!

Competitive Programming UPV es un grupo creado por estudiantes de la ETSINF de la Universitat Politècnica de València con el objetivo de...

[Ver grupo →](#)



Fornejant Ciència

Fornejant Ciència somos un grupo de alumnos con inquietudes que queremos aprender más allá de las aulas. Realizamos actividad...

[Ver grupo →](#)



Propósito Grupos Patrocinadores Noticias Descargas Calendario Contacto

Asociaciones Científicas y tecnológicas Culturas Diseño y Arte Medioambiental y sostenibilidad Motor y aviación

Makers UPV

Makers UPV es una organización creada por y para los estudiantes de ingeniería, sin ánimo de lucro y basada en la cultura Mak...

[Ver grupo →](#)



UPV Investment Club

UPV Investment Club es un grupo creado con la finalidad de formar a los estudiantes que tengan intereses en temas financieros, así como...

[Ver grupo →](#)

NeuroDesign & NeuroBranding UPV

Nuestra misión es el estudio de los consumidores desde la perspectiva emocional de sus conductas. Gracias a estos estudios y análisis realizado...

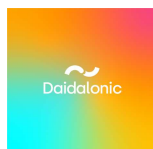
[Ver grupo →](#)



Hyperloop UPV

Hyperloop UPV es un equipo multidisciplinar que busca desarrollar el transporte del futuro, a través de la competición internacional...

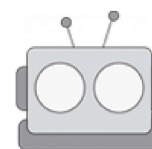
[Ver grupo →](#)



Daidalonic

Daidalonic busca desarrollar nuevos dispositivos e iniciativas en el ámbito de la biomedicina, potenciando el trabajo en equipo y el uso d...

[Ver grupo →](#)



GROMEP EPSA

El Grupo de Robótica y Mecatrónica de la EPSA, es un grupo constituido por alumnos y profesores con el fin de potenciar y expandir ...

[Ver grupo →](#)



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Interactive UPV EPSA

Interactive UPV trabaja en numerosos proyectos de Realidad Virtual y Realidad Aumentada, centrándose en el desarrollo de videojuegos...

[Ver grupo →](#)



Videojuego UPV

En el Club del Videojuego se reúnen estudiantes de multitud de grados debido a la interdisciplinariedad del desarrollo de videojuegos...

[Ver grupo →](#)

Culturales



VeVal

VeVal es un grupo creado para construir barcos de regata desde cero, y con él presentarnos a regatas que se celebran en los náuticos...

[Ver grupo →](#)



Club del Anime

El Club del Anime es un club donde compartir la misma afición, donde puedes ser tu mismo sin ningún tipo de vergüenza. El vínculo de...

[Ver grupo →](#)



UniDance

UniDance es un club de baile en el que se darán clases de baile moderno, jazz, reggaeton, afro, dancehall, funky... Compartir...

[Ver grupo →](#)





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y cultural mediante la...

[Ver grupo →](#)



actividades,...

[Ver grupo →](#)

plataforma a todos aquellos miembros de la comunidad...

[Ver grupo →](#)

DIVERSA



UPV

Diversa

Diversa es un grupo de Generación Espontánea desde el cuál reivindicamos los derechos del colectivo LGBTIQ+ dentro del ámbito...

[Ver grupo →](#)

Diseño y Arte



POLIWOOD

POLIWOOD es un lugar donde llevar a cabo tu progresión como artista de postproducción audiovisual.

[Ver grupo →](#)



LUX EPSG es un grupo de fotografía de la UPV EPSG que proporciona a los alumnos del campus con inquietudes en el campo de...

[Ver grupo →](#)

YUDesign UPV

YUDesign UPV es un grupo de estudiantes enfocados en la promoción de la cultura del diseño, innovación y creatividad, a través de...

[Ver grupo →](#)



Club de Animación

El Club de Animación somos un grupo de gente interesada en el Cine Animado y la Animación. El objetivo de nuestro Club es dar a cono...

[Ver grupo →](#)



Toma Uno

Toma Uno se conforma como una productora audiovisual gestionada y compuesta por estudiantes de diversa índole. A pesar de tratarse de un...

[Ver grupo →](#)



El Ático EPSG

La asociación "El Ático" pretende ayudar al alumnado que lo necesite a desarrollar sus proyectos audiovisuales, brindando apoyo logístico,...

[Ver grupo →](#)

Medioambiental y sostenibilidad



mou-te 

PRUNUS LAB
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lucha contra la contaminación...

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[Ver grupo →](#)

relacionados con la mejora ...

[Ver grupo →](#)



Eolia UPV

El equipo de EOLIA UPV tiene como misión el diseño y la fabricación de un aerogenerador a pequeña escala que será presentado...

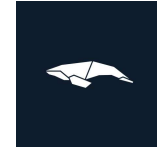
[Ver grupo →](#)



L'Hortet EPSG

L'Hortet EPSG es un grupo que surge de la inquietud de varios alumnos del grado de ciencias ambientales por aprender mediante la prácti...

[Ver grupo →](#)



Proluo UPV

Proluo en latín significa filtración, y es exactamente lo que estamos haciendo: crear filtros capaces de captar plásticos de nuestros mares.

[Ver grupo →](#)



AZALEA

Azalea

Azalea tiene por objetivo diseñar y construir un prototipo de vivienda para competir en el Solar Decathlon Europe, una...

[Ver grupo →](#)



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Xtra2 UPV

Xtra2 UPV es un equipo dedicado a la construcción de un avión capaz de transportar una determinada carga con el objetivo de competir en el...

[Ver grupo →](#)



Faraday Rocketry UPV

Faraday Rocketry UPV es un grupo enfocado al diseño, desarrollo y construcción de cohetes, principalmente cohetes sonda.

[Ver grupo →](#)



Helios Race

Helios Race es un grupo con el objetivo de construir un coche alimentado única y exclusivamente por la energía solar para competir contra...

[Ver grupo →](#)



UPV

UPV ECO-MARATHON EPSA

En el grupo de UPV Eco-marathon de la EPSA tenemos como objetivo desarrollar un prototipo de vehículo de bajo consumo...

[Ver grupo →](#)



Wattmobile UPV

Wattmobile UPV es un equipo de competición formado por estudiantes de la Universitat Politècnica de València. En 2019 el equipo se planteó...

[Ver grupo →](#)



FSUPV Team

El FSUPV Team es un proyecto formado por estudiantes cuyo objetivo es el de fabricar, construir y competir con un monoplaza...

[Ver grupo →](#)





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donde construimos desde...

[Ver grupo →](#)



grupo de actividades...

[Ver grupo →](#)

presentado en el UAS...

[Ver grupo →](#)



Aero Design UPV

Aero Design UPV es un grupo de estudiantes interesados en la creación de un prototipo de aeromodelismo para competición. La principal...

[Ver grupo →](#)

Si tienes alguna duda, te gustaría presentarnos tu proyecto o quieres unirte o patrocinar a algún grupo

[Contacta con Generación Espontánea](#)

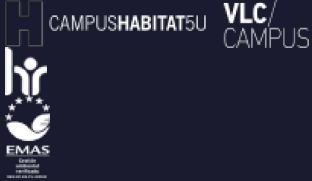


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PLAN DE RECUPERACIÓ I TRANSFORMACIÓ I RESILIÈNCIA

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Capacidades singulares de la UPV para el apoyo a empresas y administraciones públicas en la implementación de sus estrategias de transformación



UPV is consistently ranked among the top Spanish universities



(Jiao Tong Shanghai University): Best Technical University in Spain
range 400-500 in the world



The Times Higher Education: UPV among the best 150 world universities
under 50 years old (we just turned 50)



Thank you very much!!

UPV

LMSR@upv.es