

Fact Sheet and Course Catalogue



Panoramic view of the Escola Politècnica Superior

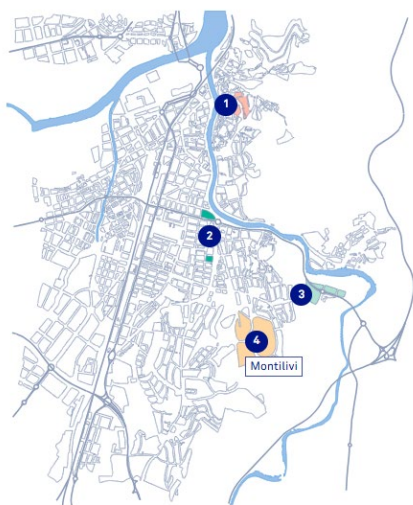
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Welcome to the University of Girona!

[The University of Girona](#) is a public higher education institution within the Catalan university system. It is located in Girona, a medium-sized city of over 100.000 inhabitants situated just 100 km of Barcelona and 70 km from the French border.

The university's academic facilities are distributed across four campuses: Barri Vell Campus, Centre Campus, Montilivi Campus, and the Science and Technology Park (Parc Científic):



-
- | | | | |
|---|------------|---|-----------------------------|
| 1 | Barri Vell | 3 | Parc de Recerca i Innovació |
| 2 | Centre | 4 | Montilivi |

Within the UdG, the [Escola Politècnica Superior](#) (EPS) – the University's Technical College – offers a dynamic academic community supported by excellent facilities for students and researchers in technical disciplines. The EPS offers a wide range of engineering programmes in four main fields: architecture, industrial engineering, computer science, and food engineering. The EPS offers a comprehensive educational portfolio available for exchange students, consisting of 12 bachelor's degrees and 7 master's degrees.

The EPS is located on the Montilivi Campus.

Studies available at the EPS

The table below provides an overview of all engineering programmes offered by the EPS, with direct links to their respective websites:

BACHELOR'S DEGREES		
Architecture		
GATE	Grau en Arquitectura Tècnica i Edificació	Bachelor's degree in Architectural Technology and Building Construction
GARQ	Grau en Estudis d'Arquitectura	Bachelor's degree in Architectural Studies
Industrial Engineering		
GEB	Grau en Enginyeria Biomèdica	Bachelor's degree in Biomedical Engineering
GEE	Grau en Enginyeria Elèctrica	Bachelor's degree in Electrical Engineering
GEEIA	Grau en Enginyeria Electrònica Industrial i Automàtica	Bachelor's degree in Automation and Industrial Electronics Engineering
GETI	Grau en Enginyeria en Tecnologies Industrials	Bachelor's degree in Industrial Technologies Engineering
GEM	Grau en Enginyeria Mecànica	Bachelor's degree in Mechanical Engineering
GEQ	Grau en Enginyeria Química	Bachelor's degree in Chemical Engineering
Computer Science		
GDDV	Grau en Disseny i Desenvolupament de Videojocs	Bachelor's degree in Design and Development of Video Games
GEINF	Grau en Enginyeria Informàtica	Bachelor's degree in Computer Engineering
Agrifood Engineering		
GEA	Grau en Enginyeria Agroalimentària	Bachelor's degree in Agri-food Engineering
GINSA	Grau en Innovació i Seguretat Alimentària	Bachelor's degree in Food Innovation and Security

MASTER'S DEGREES		
Architecture		
MARQ	Màster en Arquitectura	Master in Architecture
Industrial Engineering		
MEI	Màster en Enginyeria Industrial	Master in Industrial Engineering
MMS	Màster en Mecànica de Materials i Estructures	Master of Science in Mechanics of Materials and Structures
Computer Science		
MCD	Màster Universitari en Ciència de Dades	University Master in Data Science
MIRS	Màster en Sistemes Robòtics Intel·ligents	Master in Intelligent Robotic Systems
MIC	Màster Universitari en Computació d'Imatge Mèdica	University Master's in Medical Image Computing
Agrifood Engineering		
MBTA	Màster en Biotecnologia Alimentària	Master's degree in food biotechnology

Languages of instruction

The working language of both the University of Girona (UdG) and the Escola Politècnica Superior (EPS) is **Catalan**, and the majority of courses are taught in this language. To support the integration of incoming students, the UdG provides a range of resources, some of which are available online so that students can prepare for their stay before arriving in Girona.

One key resource, specifically designed for international students, is the [online introductory course in Catalan language and culture](#). This two-week course is offered every semester immediately before the start of regular classes and is free of charge for students participating in ERASMUS+, SICUE, and other exchange programmes. The course is awarded with 3 ECTS credits, which may be recognised at the institution of origin if included in the student's Learning Agreement (LA).

In addition, the UdG offers several online tools to help students practise Catalan:

- [SpeakCat](#): a survival Catalan course for foreign students in a university context
- [Parla.cat](#): a virtual learning space offering educational materials to learn Catalan
- [University Phrase Book](#): a conversation guide for university contexts

During your stay, you can continue learning Catalan through our [language exchange programme](#). Language exchanges offer an informal and enjoyable way to practise or improve languages you already know or are currently learning. They bring together two people who speak different languages and want to practise each other's language, while also sharing cultural perspectives and experiences.

Nevertheless, the EPS also offers **a limited selection of courses in English** across most academic fields, which are listed further below in this catalogue. Furthermore, international students may opt to write their Bachelor's or Master's thesis, or to undertake a traineeship within one of the EPS research groups. More detailed information on courses and academic supervision in English can be found in the following sections of the course catalogue.

What does the EPS offer for international students?

As an international student at the EPS, your mobility period may include one or a combination of the following activities:

1. *Courses*

All EPS courses are open to international students regardless of language of instruction. In general, students that speak a Spanish or other Romance languages are able to follow courses taught in Catalan without major difficulty, especially if they have concluded the introductory language course. Students whose first language is not closely related to Catalan may prefer to enrol in courses taught in English; these are detailed further below.

2. *Final project or thesis*

Students who choose to complete their Bachelor's or Master's final project or thesis during their stay at the EPS will be required to conduct research on a specific topic and submit a written thesis presenting their work and conclusions. To be admitted for presentation, all final projects and theses must comply with the applicable academic regulations, available at:

<https://www.udg.edu/en/eps/informacio-academica/projecte-treball-final-de-grau-i-master>

Student will be appointed a tutor who will oversee their progress and guide them towards a successful outcome. Tutoring for final projects or theses is subject to availability of tutors for the intended period of stay area of specialisation.

3. *Traineeship with one of our research groups*

Students undertaking a traineeship will be assigned to one of the EPS research groups, detailed in later sections. During the traineeship, students may participate in a specific research project or assist with the group's regular laboratory activities. A tutor will be appointed to supervise the student's work and evaluate the traineeship.

The typical duration of a traineeship ranges from 10 to 12 weeks. At the end of the traineeship, students are required to submit a final report, which will be assessed by both the tutor and the research group supervisor. Traineeship placements are subject to the availability of tutors and host research groups during the planned mobility period.

It is also possible to combine a final project or thesis with a traineeship. In such cases, the traineeship activities will be wholly or partially related to the topic of the final project or thesis.

In the following sections, you will find detailed information on the options available for each of these activities, including the corresponding course codes to be included in your Learning Agreement.

1. Courses instructed in English

The table below presents the courses that are fully taught in English, organised by study programme. Please refer to the relevant course codes when filling out your learning agreement.

The workload of each course is indicated in the "ECTS" column. In accordance with European Union policy, the workload of all courses and academic activities is measured in ECTS credits (European Credit Transfer and Accumulation System), where 1 ECTS credit is equivalent to approximately 25 hours of dedication. For further information on this topic, please refer to [European Credit Transfer and Accumulation System Guide](#), published by the European Commission.

Study programme	Abbreviation	Course code	Course title	ECTS
Bachelor's degree in Architectural Technology and Building Construction	GATE	3105G14001	Final degree project	15
		3105G11028	Practical placement in companies	15
Bachelor's degree in Architectural Studies	GARQ	3105G12043	Final work degree	15
		3105G12042	Practices on companies	15
Bachelor's degree in Biomedical Engineering	GEB	3105G15013	Computer Assisted Intervention	5
		3105G15019	Neuroscience and Neuroimaging	5
		3105G15022	Biomedical neuroengineering	5
		3105G15031	Final Degree Project	15
		3105G15030	Academic Internship	15
Bachelor's degree in Electrical Engineering	GEE	3105G09042	Final project	15
		3105G09036	Internships in companies	15
Bachelor's degree in Automation and Industrial Electronics Engineering	GEEIA	3105G03038	Final project	15
		3105G03037	Internships in companies	15
Bachelor's degree in Industrial Technologies Engineering	GETI	3105G08052	Final project	15
		3105G08053	Internships in companies	15
Bachelor's degree in Mechanical Engineering	GEM	3105G04042	Final project	15
		3105G04033	Work placements	15
Bachelor's degree in Chemical Engineering	GEQ	3105G05026	Experimentation in chemistry II	3
		3105G05042	Ecological chemistry	5
		3105G05038	Final project	15
		3105G05037	Internships in companies	15
Bachelor's degree in Computer Engineering	GEINF	3105G07012	Multimedia and user interfaces	5
		3105G07056	Final Degree Project	15
		3105G07055	External Work Placement	15
Bachelor's degree in Design and Development of Video Games	GDDV	3105G07012	Multimedia and user interfaces	5
		3105G13022	Design of game engines I	5
		3105G13046	Final Degree Project	15
		3105G13045	Practical	15
Bachelor's degree in Agri-food Engineering	GEA	3105G06034	Practical Work Placement	15
		3105G06058	Final Degree Project	15
Bachelor's degree in Food Innovation and Safety	GINSA	3105G10030	Thesis	15
		3105G10040	Internships in companies	15
Master's in Industrial Engineering	MEI	3501MO2265	Master Thesis	15
		3501MO2264	External training	15
Master's in Food Biotechnology	MBTA	3501MO2203	Masters' Thesis. Introduction to research and professional practice	12
Masters in Medical Image Computing	MIC	3501MO3020	Medical Image Registration and Applications	6
		3501MO3021	Medical Image Segmentation and Applications	6

Study programme	Abbreviation	Course code	Course title	ECTS
		3501MO3022	Computed Aided Surgery and Medical Robotics	6
		3501MO3023	Computer Aided Diagnosis	5
		3501MO3024	eHealth	5
		3501MO3329	Best Practices in Research and Scientific Writing	2
		3501MO3330	Master Thesis	30
Masters in Intelligent Robotic Systems	MIRS	3501MO3351	Robot Manipulation	6
		3501MO3352	Probabilistic Robotics	6
		3501MO3353	Autonomous Systems	6
		3501MO3354	Multiview Geometry	6
		3501MO3355	Machine Learning	6
		3501MO3356	Hands-on Intervention	6
		3501MO3357	Hands-on Localization	6
		3501MO3358	Hands-on Perception	6
		3501MO3359	Hands-on Planning	6
		3501MO3360	Management & Entrepreneurship	3
		3501MO3361	Scientific Writing & Research best practices	3
		3501MO3377	3D perception and sensor fusion	7
		3501MO3378	Object detection and segmentation	5
		3501MO3379	Reinforcement Learning	6
		3501MO3380	Advanced techniques in Machine Learning	6
3501MO3381	Statistics for Data Science	6		
3501MO3382	Master Thesis	30		
Masters in Data Science	MCD	3501MO3312	Statistics for Data Science	6
		3501MO3317	Information visualization	3
		3501MO3313	Machine Learning	9
		3501MO3636	Master Thesis	9
Master's in Mechanics of Materials and Structures	MMS	3501MO2066	Advanced structural analysis	3
		3501MO3181	Mechanical conversion of wood	3
		3501MO2069	Structural dynamics	3
		3501MO2070	Advanced concrete design	3
		3501MO2064	Design and analysis of composites with finite elements	3
		3501MO2068	Mechanical design with finite elements	6
		3501MO2061	Pre and post-process tools for structural finite element analyses	6
		3501MO2058	The finite element method in structural mechanics	3
		3501MO3180	Non-destructive inspection tests	3
		3501MO3437	Introduction to additive manufacturing	3
		3501MO3438	Introduction to the quantification and management of the uncertainty in engineering	3
		3501MO2074	Advanced materials for structural design	3

Study programme	Abbreviation	Course code	Course title	ECTS
		3501MO3060	Composites for construction	6
		3501MO2060	Fracture mechanics	6
		3501MO2062	Applied mechanics of materials and structures	6
		3501MO2059	Solid mechanics	3
		3501MO2071	Advanced constitutive modelling	3
		3501MO2072	Fluid-structure modelling	3
		3501MO2073	Structural health monitoring	3
		3501MO2067	Optimisation in engineering mechanics	6
		3501MO2063	Seminars on mechanics of materials and structures	3
		3501MO2065	Manufacturing and experimental techniques for composites	3
		3501MO3436	Materials technology for energy conversion and storage	12
		3501MO2075	Research thesis	12

2. Final thesis projects and traineeships

The table below presents the course codes and ECTS of internships and final projects or theses. Please refer to these codes in your learning agreement.

Degree	Traineeships	ECTS	Thesis or final project	ECTS
GATE	Pràctiques externes/ External Internship (3105G11028)	15	Treball final de Grau/ Bachelor's final project (3105G14001)	15
GARQ	Pràctiques en empresa / Internships in companies (3105G12042)	15	Treball fi de Grau/ Bachelor's final project (3105G12043)	15
GEB	Pràctiques acadèmiques externes/ External Internship (3105G15030)	15	Treball fi de Grau/ Bachelor's final project (3105G15031)	15
GEE	Pràctiques en empreses/ External Internship (3105G09036)	15	Projecte fi de Grau/ Bachelor's final project (3105G09042)	15
GEEIA	Pràctiques en empreses/ External Internship (3105G03037)	15	Treball final de Grau/ Bachelor's final project (3105G03038)	15
GETI	Pràctiques en empreses/ External Internship (3105G08053)	15	Projecte fi de Grau/ Bachelor's final project (3105G08052)	15
GEM	Pràctiques externes/ External Internship (3105G04033)	15	Treball final de Grau/ Bachelor's final project (3105G04042)	15
GEQ	Pràctiques en empreses/ External Internship (3105G05037)	15	Treball final de Grau/ Bachelor's final project (3105G05038)	15
GDDV	Pràctiques / External Internship (3105G13045)	15	Treball fi de Grau/ Bachelor's final project (3105G13046)	15
GEINF	Estades a l'entorn laboral / Stays in the work environment (3105G07055)	15	Projecte fi de Grau/ Bachelor's final project (3105G07056)	15
GEA	Pràctiques en empresa/ External Internship (3105G06034)	15	Treball fi de Grau/ Bachelor's final project (3105G06058)	15
GINSA	Pràctiques en empresa/ External Internship (3105G10040)	15	Treball final de Grau/ Bachelor's final project (3105G10030)	15
MARQ				
MEI	Pràctiques externes/ External Internship (3501M02264)	15	Treball final de Màster/ Master final project (3501M02265)	15
MCD			Master Thesis (3501M03636)	9
MBTA			Treball final de Màster/ Master final project (3501M02203)	12
MMS			Research thesis (3501M02075)	12
MIRS			Master Thesis (3501M03382)	30
MIC			Master Thesis (3501M03330)	30

3. Research groups

A research group at the University of Girona is composed of researchers affiliated with the UdG who collaborate in conducting research within shared areas of expertise and common research lines.

The Escola Politècnica Superior (EPS) hosts the following research groups:

Architecture	<ul style="list-style-type: none"> • Arquitectura i territori / Architecture and territory • Construcció: tecnologies avançades i sostenibilitat / Cats. Construction: advanced technologies and sustainability
Industrial	<ul style="list-style-type: none"> • Anàlisi i Materials Avançats per al Disseny Estructural (AMADE) / Analysis and Advanced Materials for structural Design • Grup de recerca en Enginyeria de Fluids, Energia i Medi Ambient – GREFEMA/ Fluids, Energy and Environmental Engineering Research Group - GREFEMA • Laboratori d'Enginyeria Paperera i materials polímers / Paper Engineering and Polymer Materials Laboratory Lepamap- Prodis • Grup de Recerca en Enginyeria de Procés, Producte i Producció (GREP) / Research Group in Process, Product and Production Engineering • Grup de Recerca Avançada sobre dinàmica empresarial i impacte de les noves tecnologies a les organitzacions. (GRADIENT)/ Advanced Research Group on Business Dynamics and the Impact of New Technologies on Organizations • Enginyeria de control i sistemes intel·ligents / Control Engineering and Intelligent Systems-Exit • Visió per ordinador i robòtica / Computer Vision and Robotics-Vicorob
Computer Science	<ul style="list-style-type: none"> • CODASTAT Research Group of Statistics and Compositional Data Analysis / Research Group in Statistics and Compositional Data Analysis • Vicorob: Computer Vision and Robotics Research Group https://vicorob.udg.edu/ • eXiT: Control Engineering and Intelligent Systems https://exit.udg.edu/es/ • MiceLab: Modeling, Identification, and Control Engineering Laboratory https://micelab.udg.edu/ • ILab: Graphics Imaging Laboratory https://gilab.udg.edu/ • BCDS: Broadband Communications and Distributed Systems https://bcds.udg.edu/ • LAI: Logic and Artificial Intelligence https://imae.udg.edu/Recerca/LAI/
Agrifood Technology and Engineering	<ul style="list-style-type: none"> • Institut de tecnologia agroalimentària (INTEA)/ Institute of Food and Agricultural Technology • Tecnologia alimentària / Food technology • Patologia vegetal / Plant pathology • Biomaterials avançats i Nanotecnologia (BIMATEC)/ Bimapec Advanced Biomaterials and Nanotechnology

Application

Once you have been **nominated** and officially assigned a mobility placement, you will be required to upload a copy of your identification document and proof of health insurance to the UdG application platform URANOS. The International Office will provide guidance and support throughout this process.

After completing your **registration** in [URANOS](#), you will be contacted by the EPS, which will request your transcript of records in order to assess your academic background and suggest the study programmes and courses best suited to your field and level of studies. The EPS academic staff will also advise on whether your proposed course selection is consistent with your previous training and academic progression. Following this assessment, you will be required to submit your **learning agreement**, indicating the courses you wish to take during your mobility period, as well as their corresponding equivalents at your home university. These courses will be automatically recognised by your home institution upon successful completion at the EPS.

Living in Girona

If you have just arrived in Girona, you may want to take a look at the [Newcomers' Guide to Girona](#). This guide is tailor-made for international students and includes essential information on finding accommodation, academic procedures, how our university works, leisure and cultural activities in Girona, as well as key contact numbers.

For any questions related to housing, please contact our Housing Service at: alotjament@udg.edu. You can also find more detailed information on their [website](#).

Contact us

Please contact us for any further information:

Tel. +34 972 419 531

Tel. +34 608 659 560 (also Whatsapp)

Office Hours:

Monday-Friday: 09:30 - 13:45 CET

Tuesday: 15:30 – 16:30 CET

We look forward to seeing you at the EPS!