FACULTY OF ENGINEERING, GIPUZKOA
Undergraduate programmes

Industrial Electronics and Automation Engineering
Electrical Engineering
Mechanical Engineering
Civil Engineering
Building Engineering
Renewable Energy Engineering

www.ehu.eus
Would you like to live an international experience during your university studies? If so, the University of the Basque Country is an excellent choice.

Our university is the Basque Country’s largest higher education institution. Structured in three campuses - covering the three Basque territories - our community of students, lecturers and researchers aggregates 60,000 fellows. Ranked among the top 500 world universities, the University of the Basque Country is a multilingual institution where Spanish, Basque and English are equally spoken. After exhaustive assessment of our activity, we were accredited Campus of International Excellence by the Spanish Ministry of Education. Boosted by this recognition, we aspire to even higher goals: becoming one of Europe’s best.

If you are interested in building on your academic and professional qualifications, the University of the Basque Country can offer you a positive learning environment, optimal technical and human resources and above all the prestige of a university committed to excellence and innovation in teaching. Come and basque yourself.

The University of the Basque Country is structured in 3 campuses: the Campus of Araba, the Campus of Biscay and that of Gipuzkoa

**CAMPUS OF GIPUZKOA**

It is composed of 9 Faculties and Schools; while the vast majority is located in Donostia-San Sebastián, we also have an Engineering Section in Eibar (40 km South-East from San Sebastián).

Capital of Gipuzkoa: Donostia-San Sebastián (182,930 inhabitants)

www.donostia.org
INTRODUCTION TO THE FACULTY

The Faculty of Engineering, Gipuzkoa was founded in 1952, and since then has played a fundamental role in relation to the companies and the productive industrial fabric of its environment, training a large number of its professionals. Currently, it has two sections, in Donostia-San Sebastián and Eibar.

INFRASTRUCTURES

The Donostia-San Sebastián section is located at the heart of the Campus of Gipuzkoa, which has over 7,000 students and avails of a wide range of services: public transport, the Central Library, cafeterias, etc. Within a distance of 150 metres one can find restaurants, shops and even a sports centre. The beach is 1,300 metres away, 10 minutes by bus or 5 by bicycle.

The building has 25 lecture rooms, 40 technical and computer laboratories, study halls and computer rooms for independent use, a cafeteria, photocopying services, lockers, etc.

The Eibar facility of the Faculty of Engineering, Gipuzkoa is comprised of 18 lecture rooms, 26 technical and computer laboratories, a library, study rooms, computer rooms, photocopying services, etc.

In addition, it has a wide range of services: dining hall, 2 sports centres, a student residence, etc. There are public transportation stops for buses and trains, and it is some 30 minutes away from three provincial capitals: Bilbao, Donostia-San Sebastián and Vitoria-Gasteiz.

CONTACT

Faculty of Engineering, Gipuzkoa
www.ehu.eus/es/gipuzkoako-ingeniaritza-eskola

Donostia-San Sebastián Section
Plaza Europa, 1 - 20018 Donostia-San Sebastián

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  Phone no.: +34 943015901

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Phone no.: +34 943 033014
Email: director.euit.industrial-eibar@ehu.eus www.ehu.eus/eibar
MULTILINGUALISM
Teaching at the Faculty of Engineering, Gipuzkoa is usually bilingual: Spanish and Euskera. However, an increasing number of subjects are also taught in English.
Moreover, we offer a number of English-friendly subjects, which, although taught in Spanish, offer the programme as well as part of the materials, several tasks and examinations in English, under faculty members who can attend to you and tutor you in English.
A B1 level is recommended for subjects in Spanish.

MOBILITY PROGRAMMES
The Faculty of Engineering, Gipuzkoa participates in every mobility programme: Erasmus+, Latin America and Other Destinations.
We have collaboration agreements with 120 different destinations and offer some 500 mobility options every year.
In addition, we have dual-degree agreements with two foreign universities: Mittweida University of Applied Sciences (Germany) and University of Pau and Pays de L’Adour (France).
The submission deadlines for documentation from new students vary in accordance with the mobility programme: For Erasmus+:
• June 30 for August-September arrivals
• November 30 for January-February arrivals

For Latin America / Other Destinations:
• Whole academic year (September 2017 to June/July 2018): 5th May 2017
• First semester (September 2017 to January 2018): 5th May 2017
• Second semester (January 2018 to June/July 2018): 31st October 2017

BUDDY PROGRAMME AND LANGUAGE COURSES
The School has a Buddy Programme that pairs you with other, local students who help with your social and academic integration during your stay.
Likewise, throughout your stay, you can take free courses in Spanish and Euskera coordinated by the Office of the Vice-Chancellor for Coordination and International Relations, apart from your official subjects.

ERASMUS+ INTERNSHIP
For students in the final year of their course, there is also the possibility of internship in some of the school departments through the Erasmus programme itself.
Field of Knowledge: Engineering and Architecture

The course in Industrial and Automated Electronic Engineering is a degree applicable to a majority of the strategic industrial sectors in our environment: machine tools, the automotive industry, aeronautics, robotics, microelectronics and, in general, those fields associated with Industry 4.0. It also has applications in medicine, merchandise distribution, traffic management systems, power generation and distribution, etc.

If you have always been curious about electronics and technological gadgets and are interested in the application of information technology to your surroundings; if you are excited about the world of robotics, the fourth industrial revolution, communications, building automation or automated systems, your place is in the Industrial and Automated Electronic Engineering degree course.

This degree will train you to ...

Draw up and develop industrial engineering projects for the construction, repair, installation and assembly of power facilities, electronic facilities, manufacturing processes and automation and control systems. You will be ready to improve the competitiveness of your company through the application of latest-generation technology.
**CURRICULUM**

**FIRST YEAR** 60 credits (60 in core subjects)

<table>
<thead>
<tr>
<th>Fall semester</th>
<th>Spring semester</th>
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<tbody>
<tr>
<td>• Algebra (6 ECTS)</td>
<td>• Métodos Estadísticos de la Ingeniería (6 ECTS)</td>
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<tr>
<td>• Fundamentos de Informática (6 ECTS)</td>
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Anual

• Calculus (12 ECTS)
• Expresión Gráfica (9 ECTS)
• Physical Basis of Engineering (12 ECTS)
• Chemical Fundamental of Engineering (9 ECTS)

**SECOND YEAR** 60 credits (6 in core subjects + 54 in obligatory subjects)

<table>
<thead>
<tr>
<th>Fall semester</th>
<th>Spring semester</th>
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<tbody>
<tr>
<td>• Material Science (6 ECTS)</td>
<td>• Automatismos y Control (6 ECTS)</td>
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<tr>
<td>• Electrónica Industrial (6 ECTS)</td>
<td>• Economía y Administración de Empresas (6 ECTS)</td>
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<tr>
<td>• Ingeniería Térmica (6 ECTS)</td>
<td>• Fluid Mechanics (6 ECTS)</td>
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Anual

• Fundamentos de Electrónica (9 ECTS)
• Mecánica Aplicada (9 ECTS)

**THIRD YEAR** 60 credits (60 in obligatory subjects)

<table>
<thead>
<tr>
<th>Fall semester</th>
<th>Spring semester</th>
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<tbody>
<tr>
<td>• Electrónica Analógica (6 ECTS)*</td>
<td>• Industrial Automation (6 ECTS)</td>
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<tr>
<td>• Electrónica Digital (6 ECTS)</td>
<td>• Electrónica de Potencia (6 ECTS)</td>
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<tr>
<td>• Informática Industrial (6 ECTS)</td>
<td>• Electronic Instrumentation (6 ECTS)</td>
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<td>• Regulación Automática (6 ECTS)</td>
<td>• Robotics (6 ECTS)</td>
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<td>• Tecnología Electrónica (6 ECTS)</td>
<td>• Sistemas Electrónicos Digitales (6 ECTS)</td>
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**FOURTH YEAR** 60 credits (24 in obligatory subjects + 24 in electives + 12 in Final Year Project)

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<tr>
<th>Fall semester</th>
<th>Spring semester</th>
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<tbody>
<tr>
<td>• Gestión de Proyectos (6 ECTS)</td>
<td>Electives</td>
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<tr>
<td>• Organización de la Producción (6 ECTS)</td>
<td>• Comunicación en Euskera: Areas Técnicas (6 ECTS)</td>
</tr>
<tr>
<td>• Sistemas de Gestión Integrada (6 ECTS)</td>
<td>• Control Digital (6 ECTS)</td>
</tr>
<tr>
<td>• Tecnologías Ambientales (6 ECTS)</td>
<td>• Dirección y Gestión de Personas (6 ECTS)</td>
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**Electives**

• Norma y uso de la lengua vasca (6 ECTS)

**FINAL YEAR PROYECT** (12 ECTS)

*English Friendly Courses (EFC) are those degree subjects which, while being taught in Spanish, offer the subject programme, along with tutoring, diverse tasks, examinations, etc., in English.*
Electric power is characterised by its high efficiency and safety of use. Have you ever thought how our lives would be without electricity? All our daily activities and, in particular, the industrial processes today need electricity to power and control their machinery. In the current scenario of a transforming energy model, electrical engineering is key to the development of renewable energies, smart grids and innovation in electrical transport.

Electrical Engineering offers solutions to the current need for competitiveness in the different phases of design, manufacture, implantation and operation of industrial projects.

If you are an active person who likes new technologies, you are concerned about the future of energetic resources and want to contribute to more sustainable development through the application of systems based on clean and efficient energy, this Bachelor’s Degree is a perfect match for you.
# CURRICULUM

## FIRST YEAR 60 credits (60 in core subjects)

### Fall semester
- **Algebra (6 ECTS)**
- Fundamentos de Informática (6 ECTS)

### Spring semester
- Métodos Estadísticos de la Ingeniería (6 ECTS)

### Anual
- **Calculus (12 ECTS)**
- Expresión Gráfica (9 ECTS)
- Physical Basis of Engineering (12 ECTS)
- Chemical Fundamental of Engineering (9 ECTS)

## SECOND YEAR 60 credits (6 in core subjects + 54 in obligatory subjects)

### Fall semester
- **Material Science (6 ECTS)**
- Electrónica Industrial (6 ECTS)
- Ingeniería Térmica (6 ECTS)

### Spring semester
- Automatismos y Control (6 ECTS)
- Economía y Administración de Empresas (6 ECTS)
- Mecánica de Fluidos/ Fluid Mechanics (6 ECTS)
- Sistemas de Producción y Fabricación (6 ECTS)

### Anual
- Fundamentos de Electrónica (9 ECTS)
- Mecánica Aplicada (9 ECTS)

## THIRD YEAR 60 credits (60 in obligatory subjects)

### Fall semester
- Electrónica de Potencia
- Instalaciones de Baja y Media Tensión
- Máquinas Eléctricas
- Regulación Automática

### Spring semester
- Centrales Eléctricas y Energías Renovables
- Control de Máquinas y Accionamientos Eléctricos
- Instalaciones de Alta Tensión
- Líneas Eléctricas y Sistemas Eléctricos de Potencia

## FOURTH YEAR 60 credits (24 in obligatory subjects + 24 in electives + 12 in Final Year Project)

### Fall semester
- Gestión de Proyectos (6 ECTS)
- Organización de la Producción (6 ECTS)
- Sistemas de Gestión Integrada (6 ECTS)
- Tecnologías Ambientales (6 ECTS)

### Electives
- Norma y uso de la lengua vasca (6 ECTS)

### Spring semester

#### Electives
- Ampliación de Máquinas Eléctricas (6 ECTS)
- Automatismos Eléctricos (6 ECTS)
- Comunicación en Euskera: Areas Técnicas (6 ECTS)
- Dirección y Gestión de Personas (6 ECTS)
- English for Industrial Engineering
- Técnicas para el Diagnóstico y Mantenimiento de Instalaciones Eléctricas (6 ECTS)

### FINAL YEAR PROJECT (12 ECTS)
The degree course in Mechanical Engineering will prepare you for the profession of Technical Industrial Engineer major in mechanics, which takes charge of designing, studying, building, installing and operating mechanical machines and devices and industrial structures and installations, such as lifting and transport machinery, machine tools, power installations, cooling installations, etc. In addition, it will prepare you to organise and direct production, operation and maintenance tasks.

If you are a creative person skilled at numbers, abstract thinking, logical reasoning and deduction, apart from having a facility for basic subjects such as mathematics, physics, chemistry and graphic expression, the Bachelor’s Degree in Mechanical Engineering is perfect for you.

This degree will train you to...

Draw up and develop industrial engineering projects for the construction, repair, installation and assembly of structures, mechanical equipment, power facilities, electrical and electronic facilities, and manufacturing and automated processes, formulating hypotheses and solutions using the models proper to industrial engineering specialised in mechanics, assessing the social and environmental impact of technical solutions, resolving problems with initiative and creativity and working in a multilingual and multidisciplinary environment.
CURRICULUM

FIRST YEAR  60 credits (60 in core subjects)
Fall semester
• *Algebra (6 ECTS)*
• Fundamentos de Informática (6 ECTS)

Spring semester
• Métodos Estadísticos de la Ingeniería (6 ECTS)

Anual
• *Calculus (12 ECTS)*
• Expresión Gráfica (9 ECTS)
• *Physical Basis of Engineering (12 ECTS)*
• *Chemical Fundamental of Engineering (9 ECTS)*

SECOND YEAR  60 credits (6 in core subjects + 54 in obligatory subjects)
Fall semester
• *Material Science (6 ECTS)*
• Electrónica Industrial (6 ECTS)
• Ingeniería Térmica (6 ECTS)

Spring semester
• Automatismos y Control (6 ECTS)
• Economía y Administración de Empresas (6 ECTS)
• Mecánica de Fluidos/ Fluid Mechanics (6 ECTS)
• Sistemas de Producción y Fabricación (6 ECTS)

Anual
• Fundamentos de Electrónica (9 ECTS)
• Mecánica Aplicada (9 ECTS)

THIRD YEAR  60 credits (60 in obligatory subjects)
Fall semester
• Ampliación de Expresión Gráfica
• Cinemática y Dinámica de Máquinas
• Elasticidad y Resistencia de Materiales
• Tecnología Mecánica

Spring semester
• Diseño de Máquinas
• Estructuras y Construcciones Industriales
• Instalaciones y Máquinas hidráulicas
• Instalaciones y Máquinas Térmicas

FOURTH YEAR  60 credits (24 in obligatory subjects + 24 in electives + 12 in Final Year Project)
Fall semester
• Gestión de Proyectos (6 ECTS)
• Organización de la Producción (6 ECTS)
• Sistemas de Gestión Integrada (6 ECTS)
• Tecnologías Ambientales (6 ECTS)

Electives
• Norma y uso de la lengua vasca (6 ECTS)

Spring semester
Electives
• Comunicación en Euskera: Areas Técnicas (6 ECTS)
• Control Numérico (6 ECTS)
• Dirección y Gestión de Personas (6 ECTS)
• Diseño Asistido por Ordenador (6 ECTS)
• Diseño Mecánico con Elementos Finitos (6 ECTS)
• *English for Industrial Engineering (6 ECTS)*
• Mantenimiento de Dispositivos Industriales (6 ECTS)
• Materiales Compuestos para Ingeniería (6 ECTS)
• Sistemas Neumáticos y Oleohidráulicos (6 ECTS)

FINAL YEAR PROJECTS (12 ECTS)
BACHELOR’S DEGREE IN CIVIL ENGINEERING

Field of Knowledge: Engineering and Architecture

The degree course in Civil Engineering will provide you with the proper technical training to confront the different stages of civil works projects (planning, projection, execution, operation, control and evaluation) with scientific and technical criteria and social responsibility, making rational, efficient and sustainable use of resources.

If you are a person with skills in calculation, interested in infrastructures and the management of urban services, and you like fieldwork, the Bachelor’s Degree in Civil Engineering is the best syllabus for you.

This degree will prepare you to ...

Conduct studies on territorial planning and environmental aspects related to infrastructures; project, inspect and manage works; maintain and preserve water and energy resources; understand the technical and legal constraints in public works construction; and use methods and technologies to greater effect in construction, respecting the environment and the health and safety of individuals.
### CURRICULUM

#### FIRST YEAR 60 credits (60 in core subjects)

**Fall semester**
- Expresión Gráfica I (6 ECTS)
- Informática (6 ECTS)
- Química (6 ECTS)

**Spring semester**
- Álgebra y Geometría (6 ECTS)
- Expresión Gráfica II (6 ECTS)
- Geología (6 ECTS)

**Anual**
- Cálculo (12 ECTS)
- Fundamentos Físicos de la Ingeniería (9 ECTS)

#### SECOND YEAR 60 credits (6 in core subjects + 54 in obligatory subjects)

**Fall semester**
- Ciencia de los Materiales (6 ECTS)
- Ingeniería y Morfología del Terreno (6 ECTS)
- Mecánica de Fluidos e Hidráulica (6 ECTS)
- Organización de Empresas (6 ECTS)

**Spring semester**
- Hidrología Superficial y Subterranea (6 ECTS)
- Procedimientos de Construcción (6 ECTS)
- Tecnología Eléctrica (6 ECTS)
- Topografía (6 ECTS)

**Anual**
- Teoría de Estructuras (9 ECTS)

#### THIRD YEAR 60 credits (60 in obligatory subjects)

**Fall semester**
- Abastecimiento y Saneamiento de Aguas (6 ECTS)
- Planificación, Gestión y Logística del Transporte (6 ECTS)
- Puertos y Obras Marítimas (6 ECTS)
- Tecnología de Estructuras I (6 ECTS)

**Spring semester**
- Ingeniería Ambiental (6 ECTS)
- Servicios Urbanos (6 ECTS)
- Tecnología de Estructuras II (6 ECTS)
- Urbanismo y Ordenación del Territorio (6 ECTS)

**Anual**
- Infraestructura del Transporte (12 ECTS)

#### FOURTH YEAR 60 credits (30 in obligatory subjects + 18 in electives + 12 in Final Year Project)

**Fall semester**
- Edificación (6 ECTS)
- Métodos de Planificación de Redes de Transporte (6 ECTS)
- Planificación y Gestión de Obras (6 ECTS)
- Proyectos de Ingeniería Civil (6 ECTS)
- **Seguridad y Legislación. English Friendly (6 ECTS)**

**Spring semester**
- **Acústica. English Friendly (6 ECTS)**
- Comunicación en Euskera: Areas Técnicas (6 ECTS)
- **English for Industrial Engineering (6 ECTS)**
- Cálculo de Estructuras por Ordenador (6 ECTS)
- Patología de la Construcción (6 ECTS)

**Electives**
- Norma y uso de la lengua vasca (6 ECTS)

**FINAL YEAR PROJECT (12 ECTS)**

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*English Friendly Courses (EFC) are those degree subjects which, while being taught in Spanish, offer the subject programme, along with tutoring, diverse tasks, examinations, etc., in English.*
Field of Knowledge: Engineering and Architecture

Technical architecture develops the technical aspects of building projects, participating in all the phases: project drafting, the economic management of processes and contracting, technical and economic control, liquidation and certification, safety and hazard prevention, quality control of materials, the maintenance, rehabilitation and restoration of buildings and constructed assets.

If you want to contribute to improving our cities, exerting an influence on all the phases of construction, you are gifted with spatial vision, you are organised and methodical, with notions of mathematics, physics and drawing, we recommend you consider enrolling on our Bachelor’s Degree in Building Engineering.

This degree will train you to...

Oversee the material execution of building projects, manage the use, conservation and maintenance of buildings, conduct analyses, evaluations and the certification of energy efficiency as well as sustainability studies, appraisals, inspection and analyses of building pathologies; draw up and coordinate work safety and health plans, and provide technical consultancy in the manufacturing processes of the materials and elements used in building construction.
CURRICULUM

FIRST YEAR 60 credits (52.5 in core subjects + 7.5 in obligatory subjects)

Fall semester
• Física Aplicada (9 ECTS)*
• Fundamentos Matemáticos I (6 ECTS)

Anual
• Construcción I (7.5 ECTS)
• Expresión Gráfica I (9 ECTS)
• Fundamentos de Materiales I (9 ECTS)

Spring semester
• Economía Aplicada a la Empresa (6 ECTS)
• Fundamentos Matemáticos II (6 ECTS)
• Instalaciones I (6 ECTS)

SECOND YEAR 60 credits (60 in obligatory subjects)

Fall semester
• Estructuras I (6 ECTS)
• Expresión Gráfica II (6 ECTS)
• Historia de la Construcción (6 ECTS)
• Materiales II (9 ECTS)

Anual
• Construcción II (9 ECTS)*

Spring semester
• Derecho (6 ECTS)
• Instalaciones II (6 ECTS)
• Introducción a la Prevención Seguridad y Salud y Proyectos Técnicos (6 ECTS)
• Replanteos y Topografía (6 ECTS)

THIRD YEAR 60 credits (60 in obligatory subjects)

Fall semester
• Estructuras II (6 ECTS)
• Expresión Gráfica III (6 ECTS)
• Previsión y Seguridad en el trabajo (6 ECTS)*

Anual
• Construcción III (9 ECTS)
• Mediciones y Presupuestos (9 ECTS)

Spring semester
• Estructuras III (6 ECTS)
• Gestión Urbanística (6 ECTS)*
• Planificación Organización y Control de Obras (6 ECTS)
• Proyectos Técnicos (6 ECTS)

CUARTO CURSO 60 créditos (21 de asignaturas obligatorias + 27 de optativas + 12 Trabajo Fin de Grado)

Fall semester
• Calidad de la Edificación
• Construcción IV
• Peritaciones y Tasaciones

Electives
• Norma y uso de la lengua vasca

Spring semester

Electives
• Acústica Arquitectónica (6 ECTS)*
• Cálculo de Estructuras por Ordenador (6 ECTS)
• Comunicación en Euskera: Areas Técnicas (6 ECTS)
• English for Industrial Engineering (6 ECTS)
• Instalaciones Contra Incendios (6 ECTS)
• Instalaciones Eléctricas en la Edificación (6 ECTS)
• Materiales Poliméricos para la Construcción (6 ECTS)
• Tecnología BIM (6 ECTS)

UNDERGRADUATE THESIS (12 ECTS)

* English Friendly Courses (EFC) are those degree subjects which, while being taught in Spanish, offer the subject programme, along with tutoring, diverse tasks, examinations, etc., in English.
The degree in Renewable Energy Engineering will train you as an interdisciplinary professional with a solid background in the basic subjects common to industrial engineering and the specific technologies of renewable energies. You will receive solid theoretical and practical training in the fields of hydraulic, wind (terrestrial and marine), solar (photovoltaic, thermal and thermoelectric), geothermal and marine energy, as well as bioenergy, electric vehicles, etc.

If you are a person deeply aware of environmental challenges, you would like to work to promote a change in energy models and advance towards sustainability; if you have had a previous background in mathematics, physics and chemistry, the Bachelor’s Degree in Renewable Energy Engineering is what you are looking for.

This degree will train you to...
Formulate solutions using the models proper to renewable energy engineering; draw up, develop and direct projects; analyse the social, economic and environmental impact of technical solutions; work in a multilingual and multidisciplinary environment; resolve problems with initiative, creativity and critical reasoning; and get acquainted with the functions of consultancy, auditing, building, maintenance and the operation of facilities.
CURRICULUM

FIRST YEAR  60 credits (54 in core subjects + 6 in obligatory subjects)

Fall semester
• Algebra
• Cálculo
• Física I. Mecánica
• Informática
• Química / Chemistry (6 ECTS)*

Spring semester
• Análisis Matemático y Numérico
• Expresión Gráfica y Diseño Asistido por Ordenador
• Física II. Electromagnetismo y Ondas
• Introducción a las Energías Renovables
• Organización, Gestión y Administración de Empresas

SECOND YEAR  60 credits (6 in core subjects + 54 in obligatory subjects)

Fall semester
• Circuitos Eléctricos
• Electrónica
• Estática y Resistencia de Materiales
• Mecánica de Fluidos
• Termodinámica

Spring semester
• Bioenergía / Bioenergy (6 ECTS)*
• Elementos Mecánicos
• Máquinas Eléctricas
• Matemática Estadística
• Transferencia de Calor

THIRD YEAR  60 credits (60 in obligatory subjects)

Fall semester
• Energía Eólica
• Energía Geotérmica y Solar Térmica
• Energía Hidráulica
• Regulación Automática y Control
• Tecnologías de Generación Distribuida

Spring semester
• Acondicionamiento de Energía Eléctrica
• Automatización en Sistemas de Energía
• Energía Solar Fotovoltaica
• Instalaciones Eléctricas en Energías Renovables
• Instrumentación Monitorización y Comunicaciones en Sistemas de Energía

FOURTH YEAR  60 credits (24 in obligatory subjects + 24 in electives + 12 in Final Year Project)

Fall semester
• Eficiencia Energética
• Gestión de Proyectos
• Sistemas de Gestión Integrada
• Sistemas Electrónicos de Conversión de Energía

Electives
• Herramientas para el Control de Sistemas de Potencia **
• Norma y Uso de la Lengua Vasca
• Normativa para Marcado CE en equipos Eléctricos y Electrónicos

Spring semester
Electives
• Análisis de Sistemas Mecánicos
• Comunicación en Euskara, Áreas Técnicas
• Energía Marina
• Energía Solar Termoeléctrica
• English For Renewable Energy Engineering (6 ECTS)
• Introducción al Derecho y Legislación sobre Energías Renovables
• Modelizado y Control Avanzado de Máquinas Eléctricas
• Modelos Digitales del Terreno y Sistemas de Información Geográfica
• Vehículos Eléctricos

FINAL YEAR PROJECT (12 ECTS)

* English Friendly Courses (EFC) are those degree subjects which, while being taught in Spanish, offer the subject programme, along with tutoring, diverse tasks, examinations, etc., in English.