PHYSICS STUDY PLAN

FIRST YEAR 60 ECTS

Annual

- Differential and Integrated Calculus I (12 ECTS)
- General Physics (12 ECTS)
- · Linear Algebra and Geometry (EFC) (12 ECTS)

1st semester (Sep-Jan)

- Chemistry I (6 ECTS)
- Introduction to Computation (6 ECTS)

2nd semester (Jan-Jun)

- Experimental Techniques I (6 ECTS)
- Chemistry II (6 ECTS)

SECOND YEAR 60 ECTS

Annual

- Vectorial and Complex Analysis (9 ECTS)
- · Mechanics and Waves (15 ECTS)
- Mathematical Methods (ENG) (12 ECTS)

1st semester (Sep-Jan)

- Electromagnetism I (EFC) (6 ECTS)
- Electronics (6 ECTS)

2nd semester (Jan-Jun)

- Experimental Techniques II (ENG) (6 ECTS)
- Modern Physics (6 ECTS)

THIRD YEAR 60 ECTS

Annual

- · Computational Methods (9 ECTS)
- Experimental Techniques III
- Quantum Physics (12 ECTS)
- Thermodynamics and Statistical Physics (EFC) (12 ECTS)

1st semester (Sep-Jan)

- Electromagnetism II (6 ECTS)
- · Optics (EFC) (6 ECTS)

Optional courses 3rd and 4th years

- · Sensors and Drive Systems (EFC) (6 ECTS)
- Signals and Systems (6 ECTS)
- Scientific and Technical writing skills in Basque (6 ECTS)

2nd semester (Jan-Jun)

Optional courses 3rd and 4th years

- Astrophysics (EFC) (6 ECTS)
- Gravity and Cosmology (EFC) (6 ECTS)
- Instrumentation I (6 ECTS)
- Physics of Continuous Media (6 ECTS)
- Scientific and Technical oral skills in Basque (6 ECTS)

FOURTH YEAR 60 ECTS

1st semester (Sep-Jan)

· Solid State Physics I (6 ECTS)

Optional courses

- Electrodynamics (EFC) (6 ECTS)
- Quantum Mechanics (EFC) (6 ECTS)
- Structural Properties of Solids (ENG) (6 ECTS)

2nd semester (Jan-Jun)

Nuclear and Particle Physics (EFC) (6 ECTS)

Optional courses

- Analogic Electronics (6 ECTS)
- Automatic Control I (6 ECTS)
- Experimental Techniques IV (6 ECTS)
- Solid State Physics II (EFC) (6 ECTS)
- Themes of Physics (EFC) (6 ECTS)

FINAL YEAR PROJECT (ENG) (12 ECTS)

ENG: Courses taught in English

EFC: English Friendly Courses, taught in Spanish or in Basque, but support, tutorials and student reporting and exams in English.