

Field of study **Sciences and engineering**

Training available in

Initial training

Recognition of prior learning

How to apply :

<https://www.univ-gustave-eiffel.fr/en/formation/applications-and-enrolment/applications>

Course venue :

Campus Marne la Vallée - Champs sur Marne - Bâtiment
Clément Ader Boulevard Descartes 77420 Champs-sur-Marne

Calendar :

The programme includes an optional internship in a company or research laboratory.

Contacts :

MALAVERGNE Valérie

GRUBER Raymond

Academic coordinator (L3)

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Academic secretary

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More information :

For further details :

<https://www.univ-gustave-eiffel.fr/international/etudiants-internationaux>

Service Information,

Orientation et Insertion Professionnelle (SIO-IP) :

sio@univ-eiffel.fr / Tel : +33 1 60 95 76 76



Bachelor's degree Physics and Chemistry Electronics, Electrical Energy and Automation



Institut Francilien des Sciences Appliquées (IFSA)

Bachelor's degree L3

TO GET THERE

Admission to third year after two years of general training in the field of Electronics, Electrical Engineering or Telecommunications. Application via eCandidat.

ACQUIRED SKILLS

Acquisition of sound general scientific knowledge at the theoretical, experimental and numerical levels; ability to solve theoretical problems in the field of electrical engineering and its applications; ability to implement an experimental approach; ability to collect, manage and present results; ability to explain and present a project method, the knowledge involved and the results obtained both orally and in writing.

YOUR FUTURE CAREER

After the third year, most students continue with a Master's or enrol at an engineering school. This Licence gives students access to the Master's degree in "Electronics, Electrical Energy and Automation" at UGE, or the "Electronics and Computing - Communicating Systems" programme at Paris-Est School of Engineering.

It can also lead to a Master's degree in the fields of electronics, electrical energy, automation, signal and image processing, networks and communications or robotics at a different university or engineering school.

BENEFITS OF THE PROGRAM

The Licence degree covers all the different fields of electronics, electrical energy and automation, thus allowing students to specialise in any area later on. Students choose to minor in Mechanics or Physics (6 ECTS per semester), depending on their personal, professional and academic ambitions. The first semester of the third year includes a lab-based experimental unit and an introductory unit on computer-based numerical methods. The second semester includes a project-based unit on a topic related to Electronics, Electrical Energy and Automation, during which students work in pairs to carry out their own theoretical, numerical and/or experimental study. In the second semester, students can choose to study an option in materials or sensors or carry out an internship in a company (or even a research laboratory), depending on their objectives.

More information



PROGRAM

SEMESTER 5

Mathématiques - 5 (ECTS:4)
Initiation aux méthodes numériques (ECTS:3)
Anglais-5 (ECTS:2)
Electronique analogique 3 (ECTS:3)
Electronique de puissance (ECTS:3)
Electronique numérique 3 (ECTS:3)
Traitement du signal analogique (ECTS:3)
Electronique analogique 2 (ECTS:3)
Mécanique Quantique (ECTS:4)
Electromagnétisme et ondes électromagnétiques (ECTS:6)
Introduction aux transferts thermiques (ECTS:3)
Introduction aux transferts convectifs et radiatifs (ECTS:3)
Analyse chimique 1 (ECTS:2)

SEMESTER 6

Anglais 6 (ECTS:2)
Traitement du signal numérique (ECTS:4)
CAO en électronique (ECTS:3)
Introduction aux systèmes embarqués (ECTS:3)
Projet disciplinaire en 3EA (ECTS:3)
Introduction à la science des matériaux (ECTS:3)
Capteurs (ECTS:3)
Stage (ECTS:3)
UE libre (ECTS:3)
Automatique (ECTS:6)
Physique statistique (ECTS:4)
Ondes acoustiques (ECTS:2)
Initiation aux différences et éléments finis 1 (ECTS:2)
Spectroscopie atomique et moléculaire (ECTS:6)
Dynamique des fluides (ECTS:4)