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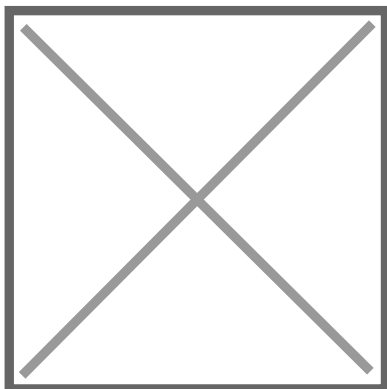
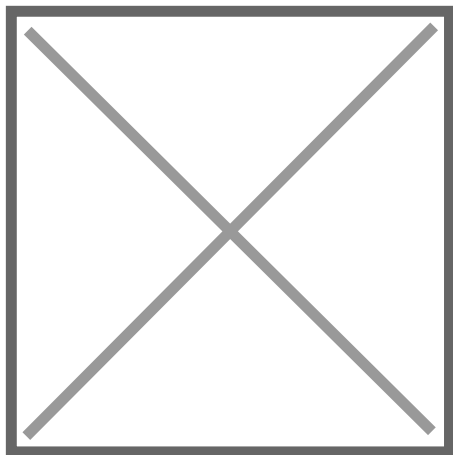
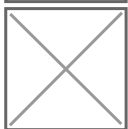
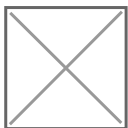
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# BUT3 Electrical Engineering and Industrial Computing: Electronics and Embedded Systems (ESE)



BUT (University technology degree)

Specialisation Génie électrique et informatique industrielle

Language(s) of instruction

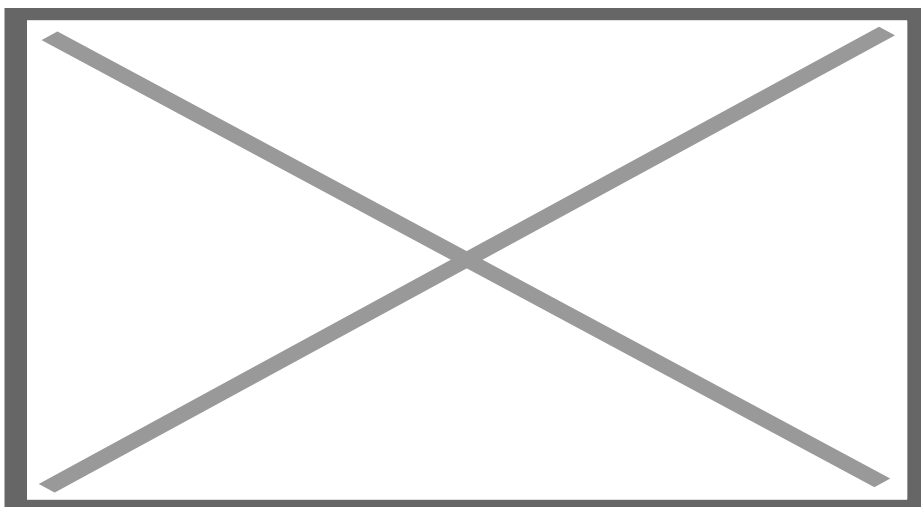
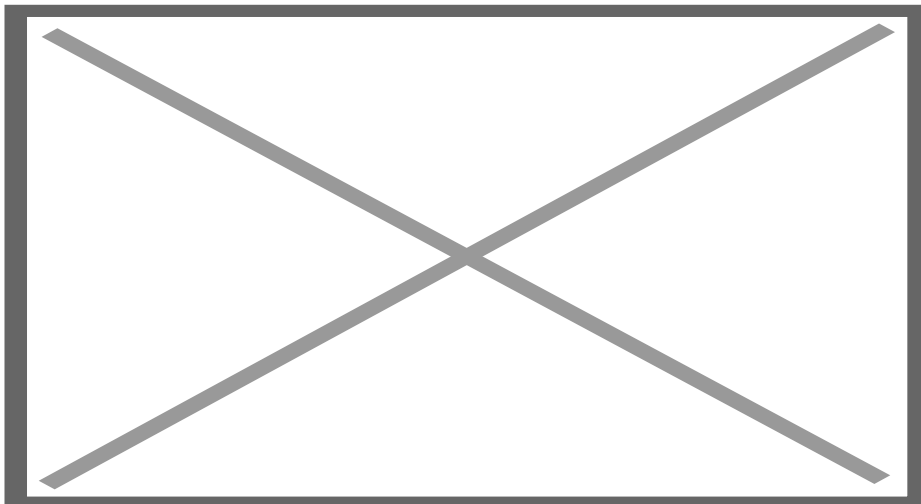
German English Spanish French

With a focus on innovation and technological development, the University technology degree (BUT) in Electrical Engineering and Industrial Computing is a three-year programme that trains students for the world of tomorrow. It allows students to develop competencies to work in the sectors of the city and industry of the future, smart and connected networks, transport and electromobility, aeronautics, renewable energies, healthcare, audiovisual, robotics, space, and more.

- A curriculum with an excellent support framework: 2000h of courses over 3 years. - A technical curriculum with a strong focus on practice and projects: + 600h of supervised projects over 3 years; + practical work in groups of 12/13 students; + supervised work in groups of 24/26 students; + 22 to 26 weeks of internship, in France or abroad. + Work-study programme available from the 1st year. + Continuous, competencies-based assessment. + Always possible to graduate at Bac+2 with a university technology diploma (DUT). The University technical institute (IUT) at Cachan offers three university technology diploma (BUT) courses in Electrical Engineering and Industrial Computing : - Electricity and Energy Management (EME) , - Automation & Industrial IT (AII) - Electronics and Embedded Systems (ESE) The choice of course is made at the end of the 1st year.

[Télécharger la fiche détaillée](#)

[Apply Now](#)





■ ■

## Information

- [Overview](#)
- [Application requirements](#)
- [Schedule](#)

Présentation

## **Skills**

Students completing the university technology diploma in Electrical Engineering and Industrial Computing (BUT GEII) will be able to design and implement systems for processing and sending information, and managing and exploiting energy. + Strong scientific and technical culture. + Ability to communicate through various media. + Fluency in technical English. + Knowledge of the professional world. + Autonomy, initiative, team spirit.

## **Objectives**

The Department of Electrical Engineering and Industrial Computing (GEII) offers a curriculum geared towards careers in electricity and electronics (electronics, computing, networks and electricity). The aim is to prepare students in 3 years for senior technician roles, while offering the possibility of further study, particularly through work-study programmes.

## **Débouchés**

### **Further Study Opportunities**

**Engineering school**

**Engineering, research and development**

**Master's Degree in Engineering or Mechanical Engineering**

**Master of Education and Teaching Professions**

Admission

### **Capacity**

#### **Available Places**

200

### **Target Audience and Entry Requirements**

The BUT is a 3-year university technology diploma that forms part of the European LMD system. A selective field of study, it is open to secondary-school students with scientific or technological baccalaureate degrees, and to students re-orienting their studies (L1, CPGE (Preparatory Classes for the Grandes Écoles), STS (Higher Technician Sections), university technology diploma (DUT), PACES (First Year of the Joint

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | distance learning courses |
|----------|------|----------|---------|----------------|-----------------|------------------------|-------------------------|--------------------------------|---------------------------|
|----------|------|----------|---------|----------------|-----------------|------------------------|-------------------------|--------------------------------|---------------------------|

[Vérifier  
la partie  
GEII  
d'un  
système  
\(S5\)](#)

7.5      Semestre  
1

## Vérifier la partie GEII d'un système (S5)

ECTS : 7.5

Semester: Semestre 1

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Détail renseigné au niveau Élément

Constitutif

[Vérifier  
la partie  
GEII  
d'un  
système  
\(S6\)](#)

7.5      Semestre  
2

## Vérifier la partie GEII d'un système (S6)

ECTS : 7.5

Semester: Semestre 2

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Détail renseigné au niveau Élément

Constitutif

Assurer le maintien en condition opérationnelle d'un système GEii (BUT3)

[Assurer le  
maintien en  
condition  
opérationnelle  
d'un système  
GEii \(S5\)](#)

7.5      Semestre  
1

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | practical class | directed study/practical class | other |
|----------|------|----------|---------|----------------|-----------------|------------------------|-----------------|--------------------------------|-------|
|----------|------|----------|---------|----------------|-----------------|------------------------|-----------------|--------------------------------|-------|

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | distance learning |
|----------|------|----------|---------|----------------|-----------------|------------------------|-------------------------|--------------------------------|-------------------|
|----------|------|----------|---------|----------------|-----------------|------------------------|-------------------------|--------------------------------|-------------------|

## Assurer le maintien en condition opérationnelle d'un système GEii (S5)

ECTS : 7.5

Semester: Semestre 1

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Détail renseigné au niveau Élément Constitutif

[Assurer le maintien en condition opérationnelle d'un système GEii \(S6\)](#)

7.5

Semestre  
2

## Assurer le maintien en condition opérationnelle d'un système GEii (S6)

ECTS : 7.5

Semester: Semestre 2

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Détail renseigné au niveau Élément Constitutif

Implanter un système matériel ou logiciel (BUT3)

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | distance learning |
|----------|------|----------|---------|----------------|-----------------|------------------------|-------------------------|--------------------------------|-------------------|
|----------|------|----------|---------|----------------|-----------------|------------------------|-------------------------|--------------------------------|-------------------|

[Implanter un système matériel ou logiciel \(S5\)](#)

7.5

Semestre  
1



## Implanter un système matériel ou logiciel (S5)

ECTS : 7.5  
 Semester: Semestre 1  
 Language(s) of instruction  
 Français  
 Remote teaching  
 non  
 Type of assessment  
 Détail renseigné au niveau Élément Constitutif

[Implanter un système matériel ou logiciel \(S6\)](#)

|     |            |
|-----|------------|
| 7.5 | Semestre 2 |
|-----|------------|



## Implanter un système matériel ou logiciel (S6)

ECTS : 7.5  
 Semester: Semestre 2  
 Language(s) of instruction  
 Français  
 Remote teaching  
 non  
 Type of assessment  
 Détail renseigné au niveau Élément Constitutif

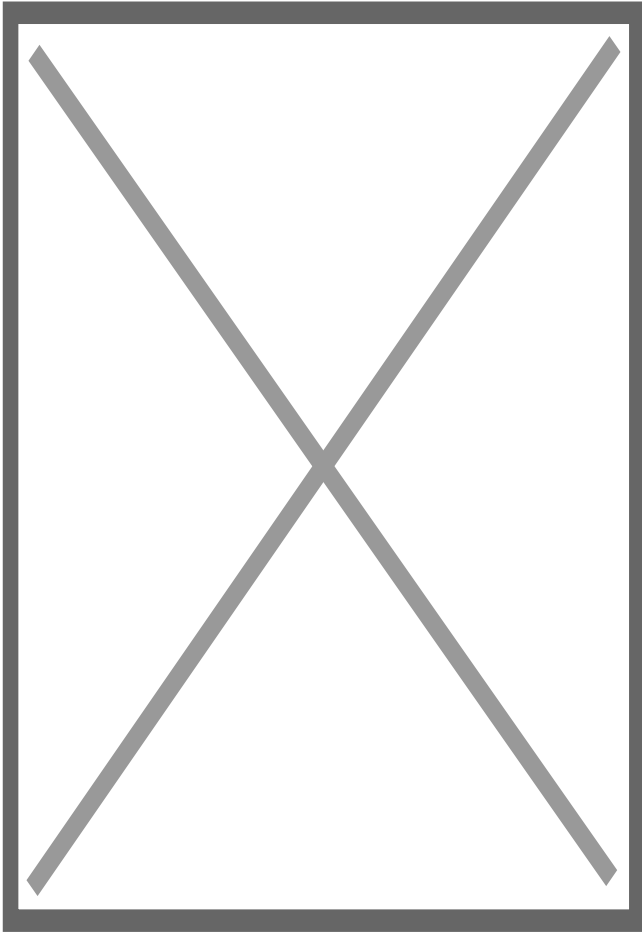
## Teaching Location(s)

CACHAN

## Training campus

Javascript est requis pour visualiser cette carte.





## Cachan

Cachan

Bus 184, 187

RER B Arcueil-Cachan

[Voir](#)

Student restaurant (CROUS)

Student residence

Sports facilities

## Contact

- **Xavier MININGER**
- **Jacques-Olivier KLEIN**

<http://www.sciences.universite-paris-saclay.fr/formation/genie-electrique-et-informatique-industrielle/but3-genie-electrique-et-informatique-industrielle-electronique-et-systemes-embarques-ese>