



**DUT GEII**

## Electric and industrial computing engineering

### Application

Your school qualification transcripts will be examined by a jury. B1 level of French is required. The Baccalaureate (high school diploma) is required

### Objectives

To become a qualified technician in charge capable of analyzing and taking part in the design of systems or equipments carrying out numerical electronic, analogical and power technologies, electrotechnology, automatisms, Industrial computing or networks technologies.

### Training in four semesters

Formation is organised around main skills (80% of the courses) as well as modules which students chose according to his job plans. The courses are divided in semesters and in modules. There are four teaching units semesters.

U.E.1 : Scientific and human training : Mathematics, physics, culture-communication, English and personnel and professional project.

U.E.2 : Electrical engineering.

U.E.3 : Computing and Industrial systems.

U.E.4 : Internship.

The second year ends with a ten-week internship. This work experience can be done overseas in partner universities (Scotland, Germany ...)

### Opportunities

The students which graduate are skilled to work in sectors as varied as aeronautics and space, microelectronics industries, health, transports and the car industry, agribusiness, transformation and manufacturing industries.

Jobs exemples :

Studies officer, trials officer, production manager, maintenance coordinator, software developer, automation engineer, process specialist, industrial computer scientist, teacher with a degree...

### Further Studies

Engineering schools, licence, licence professionnelle (sandwich course), University Degree, National Diploma of Higher Education,...

#### IUT de TROYES

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## Educational organisation in four semesters

U E 1	Human and scientific training	Mathematics	120h	60h
		Culture - Communication	60h	30h
		Personal and professional project	30h	
		English	90h	30h
		Physics	60h	30h
U E 2	Electrical engineering	Basics for electrical engineering	120h	
		Electrotechnology and power electronics	60h	60h
		Electronics	60h	60h
		Studies and achievements	60h	30h
T U 3	Industrials systems computing	Industrial computing	120h	
		Digital electronics, logical synthesis	60h	
		Automatism		60h
		Industrial and network automatism	60h	60h
		Studies and achievements	60h	30h
T U 4	Professional training and work experience	Business skills		30h
		Industrial and network automatism		30h
		Studies and achievements - projects		30h
		10-weeks work experience semester 4		

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The student is asked to select 10 additional modules of 30 hours based on their professional project (immediately or after further studies). To maintain a balance between teaching units, he must choose at least 2 modules and no more than six modules per teaching units. Semesters 1 and 2 have 1020 hours over 34 weeks, semesters 3 and 4 have a volume of 780 hours over 26 weeks. Extra courses are divided into semester 3 (3 modules) and semester 4 (6 modules).

Tests: Your work is assessed all year round. Courses are compulsory.

