

Environment & Applied Biology Sciences Department **Biological Engineering Applied to the Environment**

An intensive 2 year course leading to a National University Institute of Technology Diploma
DUT : Diplôme Universitaire de Technologie : 120 ECTS crédits

COURSE CHARACTERISTICS

- Hours = 60 weeks over 2 years
- Minimum 10-week in-company training and research project
- 120 H tutored projects

A CAREER ORIENTED DIPLOMA

- ✓ **industry oriented teaching** : close university /industry links : staff from industrial and University backgrounds.

EMPHASIS ON FOREIGN LANGUAGES

- ✓ main language (second language possible): English, German, Spanish, Italian
- ✓ preparation for the P.E.T (Cambridge University), BULATS, TOEFL, TOEIC
- ✓ language assistant classes for extra English, German and Spanish
- ✓ 4 language labs + 3 specific multimedia classrooms equipped for language learning

ASSESSMENT

Continuous assessment + week dedicated to class exam each semester / year

INTERNATIONAL DIMENSION

- ✓ Possibility of placements abroad
- ✓ postgraduate International Diploma open to DUT graduates :
DUETI Diplôme d'Université d'Etudes Technologiques Internationales
- ✓ Partnerships with the UK, Canada, Germany, Spain, Italy, Sweden, Norway, Denmark, Finland, Czech republic, Ireland...


COURSE GOALS

After having completed their studies, graduates are able to :

- participate in company development
- play an inter-active part in the setting-up of this policy
- meet technical, economic, quality and safety requirements needed in a competitive economy
- have the capacity to deal with situations demanding both autonomy and responsibility

CONTACT

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 **STUDENT NUMBERS** 1st year : 78 students (3 groups of 26 students each)

ADMISSION REQUIREMENTS

3 conditions:

- 1 - a formal entrance qualification : the Baccalauréat or a University entrance examination
- 2 - Assessment of academic results over the last two years taken into account. Main subjects required : French, Maths, Foreign language, Physical and Mechanical Sciences, Technology
- 3 - Selection process

CAREER PROSPECTS

Main areas

Chemistry, pharmacy, food industry, microbiology, ecology, hydrogeology, pédology, ecotoxicology

Scope of activities

Biotechnologies, civil engineering, field work, town and country planning, safety, research and engineering offices (departments)

REGISTRATION PROCEDURE

Deadlines for submitting applications:

1st semester and full year: May 20th

2nd semester: October 20th

Syllabus: each block is compulsory

<i>Lectures</i>	complete age-group	6 hours / a week
<i>Tutorials</i>	26 students per group	14 hours / a week
<i>Lab work</i>	13 students per group	10 hours / a week
Average number of contact hours		30 hours / a week

For all the Semester

Communication core course	English	Expression and Communications skills Introduction to corporate culture Computing
Vocational core course:		professional project and tutored project

Different Scientific and Technical core course for each semester

Semester 1 – 15 weeks, about 30 hours a week

Chemistry, biochemistry, physics
Biology, Molecular biology
Geology
Mathematics and Probability theory

Semester 2 – 19 weeks, about 30 hours a week

Chemistry, biochemistry,
Biology, Molecular biology
Microbiology, immunology
Hydraulic, electricity
Geology
Statistics and Probability theory

Semester 3 – 15 weeks, about 30 hours a week

Origin, structure and discovery of material chemical and biological pollution

Pollution processing: urban industrial and agricultural waste, air, noise

Ecology

Techniques for monitoring the natural environment:

Climatology, hydrobiology, hydrogeology, pédology...

Semester 4 – 12 weeks, about 30 hours a week

Streamlining, water treatment

Ecotoxicology, Risk

Electrotechnic, Automatism

Pollute soils réhabilitation...

Maps

Economy, law and regulations

BPL: Efficient lab work routines

10 weeks period of **contract work experience in a firm or a laboratory** (private or public)
Research project viva in front of a jury of professionals and teachers

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