EUROPEAN BACHELOR'S
IT AND NETWORKS

New technology is transforming the way we live and work. In order to keep up to date and connected with the world, organisations must develop tools, networks, applications and programmes that will enable them to innovate.

Given the rapid digitalisation of the workplace, careers in database development and network administration have excellent prospects. Organisations need professionals with excellent technical skills who are also capable of working in a project-oriented manner. Additionally, IT experts must be willing to keep on learning throughout their careers so as to keep abreast of technological advances.

✓ CAREER DESTINATIONS

- Application Developer
- Programmer-Analyst
- Application Integrator
- Research and Development Manager
- Systems and Networks Administrator
- IT Systems Architect
- IT Equipment Manager
- Systems Engineer
- Webmaster
- Assistant Project Manager

✓ KEY SKILLS

- Use website-design software
- Use UML throughout the life cycle of a project
- Have a good command of communication protocols, compression standards and programming languages
- Programme using a specific language
- Have a good command of relevant hardware and software
- Install, administer and maintain a network platform
- Set up, consult, query and update a relational database
- Install an RDBMS
- Deploy and maintain multi-protocol IT equipment
- Independently manage and ensure the security of a server

Designed by experts and professionals in the field, the European Bachelor's in IT and Networks is an innovative, hands-on and up-to-date programme that provides students with the technical skills sought by contemporary employers.
The programme is an excellent basis for future career growth in the sector.

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60 ECTS credits

Admission requirements

The European Bachelor's in IT and Networks requires:

• either prior completion of a European Qualifications Framework (EQF) level-5 degree (120 ECTS credits);

• or official validation of equivalent experience (at least one year's recognised sector-relevant experience).

PROGRAMME CONTENTS

1 - Digital Literacy and Project Implementation

Based on two modules, this unit ensures students:

• have a firm grasp of IT-relevant mathematics;
• can perform system programming in C;
• can manage databases and use SQL;
• have a basic knowledge of project management and of specific IT tools.

2 - Database Development and SQL (speciality unit: option A)

Based on two modules, this unit ensures students:

• can use UML to model development projects;
• understand and can apply the main functionalities of Java;
• can use the functionalities of object-oriented programming;
• know the basics of web programming;
• know the basics of mobile oriented programming;
• can manage relational databases.

3 - Administration Systems and Networks (speciality unit: option B)

Based on two modules, this unit ensures students:

• can ensure network security;
• can manage network administration;
• understand and can manage the administration of open-source systems;
• understand and can manage the administration of systems under licence.

4 - Professional Experience

A strong point of FEDE European Bachelor's degrees is the requirement for students to consolidate their learning and gain a careers head start through hands-on work experience. The aim is to apply the knowledge and skills acquired during the programme and gain professional confidence.

By completing a work placement in their chosen field, students acquire direct knowledge of the sector and all-important experience in their future role. Students also carry out a supervised project. The project requires them to devise and implement a strategy for completing a professional assignment.

Students produce a dissertation or activity report and present their findings orally.

5 - European Culture and Citizenship

This unit ensures students:

• have a solid knowledge of the workings, institutions, geography, geopolitics and economics of Europe;
• understand the European model and how it differs from other models in terms of history, regulations, law and culture;
• understand Europe in a broader sense (intercultural aspects, human resources, policies, religions, international trade, taxation etc.);
• have the tools necessary to do business in an EU country;
• understand relevant cultural codes and their impact on interpersonal relations;
• can supervise employees and encourage staff mobility in order to raise their international career prospects.

6 - Modern European Language

This module ensures students:

• have CEFR level B1 (writing and speaking) in a modern European language;
It results in the awarding of the FEDE Language Certificate; the Certificate is based on the CEFR and is recognised by the IFEF.

For more information:
https://www.fede.education/fr/nos-diplomes/

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