EUROPEAN BACHELOR'S
IT, NETWORKS AND SECURITY

In the digital era, information security and respect for data have become a priority for organisations, who must look ahead and put in place systems to protect their clients, business partners and users.

The European Bachelor's in IT, Networks and Security gives students the solid technical skills needed to detect faults but also, and above all, to analyse systems in advance so as to ensure their security. Employees in the field must be able to adopt a project-oriented approach and to keep learning throughout their careers so as to keep abreast of ongoing technological and digital advances.

✓ KEY SKILLS

• Gain knowledge relevant to information security

• Be familiar with security standards

• Master counter-attack techniques and tools for operating systems and networks

• Implement a security plan

• Identify and correct faults in an DBMS

• Master certificate management

• Have a basic knowledge of cryptology

• Be comfortable working with sales contracts on e-commerce sites

✓ CAREER DESTINATIONS

■ IT Technician
■ Security and Information Networks Technician
■ Systems and Networks Administrator

Designed by experts and professionals in the field, the European Bachelor's in IT, Networks and Security is an innovative, hands-on programme, fully up to date with the latest developments in the field of IT network development and security.
The programme provides students with the technical and analytical skills needed for optimal 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 - IT Basics

Based on two modules, this unit ensures students:

• acquire the skills needed for managing local networks;
• have a solid understanding of operating systems;
• can manage databases;
• are comfortable with software and hardware architecture;
• can translate their knowledge into a toolbox of technical skills.

2 - Security Basics and IT Law

Based on two modules, this unit ensures students:

• acquire basic knowledge of information security;
• are familiar with security standards;
• understand the importance of an information security policy;
• acquire the basics of IT law and data protection;
• are able to manage sales contracts on e-commerce sites;
• understand legal security as regards evidence, messages and responsibility in terms of sanctionable offences and sanctions.

3 - Information System Security

Based on two modules, this unit ensures students:

• can identify faults and vulnerabilities in operating systems and networks;
• master counter-attack techniques and tools for operating systems and networks;
• can detect intrusions into operating systems and networks;
• are able to implement a security plan (OS and networks);
• can identify faults in DBMSs;
• are able to manage database security;
• are able to ensure the security of databases;
• understand server, and online database security;
• understand certificate management (public and private key);
• have a basic understanding of cryptography (encryption algorithms).

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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