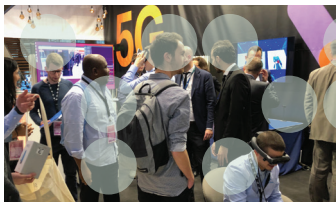
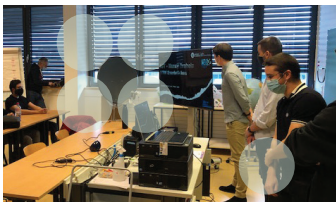




Lycée Guillaume Kroll



BTS Communication technologies



Brevet de technicien supérieur – BTS

BTS Communication technologies

With the rapid expansion of fibre networks, 5G, satellite communication, IoT and AI, the demand for skilled ICT and telecommunications professionals continues to grow.

The BTS Communication Technologies is a 2-year post-secondary programme which will train you in the field of communication technologies. The course encompasses a lot of practical work and projects closely linked to companies in sectors pertaining to IT networks, Wi-Fi, 5G, satellite communication and IoT.

And why at the Lycée Guillaume Kroll?

In 2017, the Lycée Guillaume Kroll was awarded the «Future Hub» label in recognition of its efforts in the field of high technology at all levels of education. Students can use equipment that is at the cutting edge of technology. As the LGK offers a wide range of courses, we have a large number of highly specialised teachers and external experts who collaborate on a regular basis and supervise the various projects of the students. The additional offer of three post-secondary courses, one in Communication technologies, one in Cloud Computing and one in Cybersecurity, ensures that the teachers are experts in their field.

Our close collaboration with companies in the ICT sector in Luxembourg and your internship will allow you to enter the Luxembourg job market with a qualification and training as an ICT specialist, an area of expertise that is particularly in demand.

Programme

- 2-year post-secondary programme focused on communication and networking technologies
- Modern infrastructures: IT networks, Wi-Fi, fibre, 5G, satellite communication and IoT
- Practice-oriented learning with labs and projects

- AI-assisted learning: use modern AI tools to support programming, troubleshooting and technical labs
- Strong connection to the industry thanks to many collaborative partners
- Preparation for careers in telecommunications, IT networking and digital infrastructure

Admission requirements

- a secondary school diploma (classical, general or technical) or an equivalent foreign diploma,
- a working knowledge of English and French.

Outcomes

- Great job opportunities: BTS graduates are highly skilled specialists in the field of IT with focus on communication technology
- Direct entry to Bachelor's degrees (optional third year at a partnering university)

Goals

Graduates of a BTS in Communication Technologies will be able to design, implement and monitor IT and broadcast networks and ensure their security. You will have no difficulty finding a job as the need for telecommunications and IT experts is particularly high and there are many job offers.

The BTS diploma will also allow you to continue your studies by working towards a Bachelor's degree. If your results are good, you may even enter such a degree programme in its 3rd year.

How are the lessons organised?

Course	Year 1		Year 2	
	S1	S2	S3	S4
IT Networks	4h	4h	4h	
Communication Technologies	2h	2h	4h	
Smart Technologies		3h	3h	
Technical Skills	4h	4h	2h	
Operating Systems	4h			
Programming and Coding	4h	4h		
Multimedia Technologies	4h			
IT Security			4h	
Cloud Computing and Virtualization			3h	
Signal Theory	2h			
Wireless Technologies		4h	4h	
English and French Communication	4h	2h		
Business Planning & Project Management		4h	2h	
Future Trends			2h	
Applied ICT and Satellite Communication*				14h
Projects in IT and Telecom				12h
Internship				12 weeks
*External courses provided by partnering companies	28h	27h	28h	26h

The highlights in a nutshell

- Individualised and collaborative teaching
- Courses taught by highly qualified teachers and external experts from leading companies
- Use of state-of-the-art equipment
- Relationships with the business world throughout the course

About the Lycée Guillaume Kroll

The Lycée Guillaume Kroll, founded in 1924, has grown into one of Luxembourg's three national Future Hubs. It offers classical and general secondary education in the lower grades, and specialises in high-tech fields at higher levels: IT and communication in classical education, engineering, natural sciences and paramedical studies

in general secondary education, as well as computer science, Smart Technologies and mechatronics in vocational training.

At post-secondary level (BTS), the LGK provides highly specialised programmes in Cloud Computing, Communication Technologies and Cybersecurity.

Ideally located along the A4 motorway, the school is easily accessible via public transport, with several TICE and RGTR lines stopping nearby (Cité Verte, rue Henri Koch, Lycée Guillaume Kroll).

Motiviert an engagiert an d'Zukunft

Motivés et engagés vers l'avenir

