

Bachelor

Applied Information Technology

Continuing Education
Programme

Autumn
2021

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UNIVERSITÉ DU
LUXEMBOURG

CSL
CHAMBRE DES SALAIRES
LUXEMBOURG

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LUXEMBOURG LIFELONG
LEARNING CENTER
La formation continue de la Chambre des salariés

Bachelor in Applied Information Technology

Continuing Education Programme

Objectives

The Bachelor in Applied Information Technology - Continuing Education Programme (BINFO-CEP) offers a programme in information technology which focuses on continuing education for professionals. The main programme objective is the strengthening of both operational and theoretical computer skills of its participants. BINFO-CPE provides foundations for basic theoretical knowledge in computer science together with a broad overview on several topics in information technology relevant for the professional world. Most courses are strongly project-based to deepen the practical skills on the concepts introduced in the class meetings. In addition to technical training, the Bachelor tries to enhance relevant soft skills of its students: bilingual French/English curriculum, teachers and classmates from different countries and different cultures.

Learning outcomes

At the end of the programme, the student is able to:

- prove knowledge of advanced programming skills for different types of applications;
- explain key technologies important in information technology (IT)
- develop the interest and skills base to continue with an academic study of the Master level;
- communicate in French and English, both written and oral, in a context of teamwork and interaction with people of diverse cultural and technical backgrounds;
- further develop his/her ability to work independently, analyse situations, anticipate problems and propose solutions in a variety of professional contexts.

Target audience

The programme aims at employees, self-employed persons, and job-seekers with some already existing experience with information technology wishing to reinforce their computer skills and validate their professional skills.

Admission requirements

- Bac+2 with a minimum of 3 years of professional experience in the IT domain, or a "Diplôme de fin d'études secondaires/ Diplôme de technicien" or equivalent with a minimum of 6 years of professional experience in the IT domain.
- Selected candidates must be granted the equivalent of 100 ECTS for their professional experience by the "Commission de validation des acquis professionnels de l'Université".

Programme organisation

Each week, you will participate in lectures and practical work for small groups of approximately 15 students. The requested work can be individual or group work. The courses are taught in English (70%) and French (30%). Most modules include the realisation of practical projects, which will allow you to put into practice the provided theoretical knowledge. Courses take place over 4 semesters in the evening (18h00 to 21h00), typically on 3 evenings per week. A total of four modules are taught per semester for a maximum of 140 hours, an average of 10 hours per week over 14 weeks. The entire training lasts two years.

Evaluation

The course evaluation is made by a continuous assessment (at least one intermediate examination per subject and semester) on projects, oral presentations and final examinations. The exact modalities differ per course, but the emphasis is as much as possible put on continuous knowledge control, in addition to final examinations or project defenses. A student who does not pass a course will be allowed to continue his studies and to redo that examination later in one of the two annual exam sessions. In accordance with the rules of the Internal Regulations of the University, a student will have the opportunity to re-register at the University of Luxembourg beyond 2 years to re-pass non-validated exams without additional cost. However, note that the maximal study length of 3 years (6 semesters) may not be exceeded.

Career opportunities

- Developers, business analysts, network administrators, web masters in all IT-related professional sectors.
- Master en Management de la Sécurité des Systèmes d'Information (MSSI) at the University of Luxembourg.

Diploma

The Bachelor's diploma in Applied Information Technology is delivered by the University of Luxembourg, in application of the rules of Bologna.

PROGRAMME*

Semester 1

COURSES	ECTS
Databases	6
Introduction to programming	6
Mathématiques générales	4
Réseaux informatiques	4
TOTAL	20

Semester 2

COURSES	ECTS
Algorithms and data structures	4
Analyse et conception des logiciels	6
Mathématiques discrètes	4
Operating systems	6
TOTAL	20

Semester 3

COURSES	ECTS
Algorithms and data structures	4
Analyse et conception des logiciels	6
GUI programming	4
Web programming	6
TOTAL	20

Semester 4

COURSES	ECTS
Blockchains	4
Java for enterprise applications	6
Mobile application development	6
Software testing	4
TOTAL	20

* Programme subject to change

BEGINNING OF CLASSES: first Monday of October 2021

REGISTRATION DEADLINE: end of September 2021

REGISTRATION: www.uni.lu/students, click "Enrolment" under the heading "Studies"

REGISTRATION FEES: 6.500 €



TERMS AND CONDITIONS :

www.LLIC.lu
under Formations Universitaires/
Bachelor in Applied Information Technology
Continuing Education Programme

PARTNERS



UNIVERSITÉ DU
LUXEMBOURG

The University of Luxembourg, the only public university of the Grand Duchy of Luxembourg, is a multilingual, international, and research-oriented academic institution with a personal atmosphere. After its foundation in 2003, the university developed rapidly into a centre of excellence for both higher education and top-level research, succeeding at position 17 among all "Young Universities" in the prestigious "2019 Times Higher Education" ranking.

The university is composed of three faculties with 13 different departments and three interdisciplinary research centres. It offers to its 6423 students from more than 125 countries a total of 13 Bachelor degrees, 42 Master degrees, and 16 vocational trainings for lifelong learning activities. The students benefit from an experienced international teaching body from more than 20 countries. In addition, a mobility semester abroad, supported by Erasmus+ and cooperation agreements with academic institutions worldwide, is mandatory for every Bachelor study.

Research is mainly focused on the 6 pillars "Materials Science", "Computer Science & ICT Security", "European and International Law", "Finance and Financial Innovation", "Education", and "Contemporary and Digital History". This research activity supports major goals of public research in Luxembourg, namely to position the country as a knowledge-based society and to foster innovation that will drive sustainable socio-economic development.



CHAMBRE DES SALARIÉS
LUXEMBOURG

A NECESSARY INSTITUTION TO DEFEND EMPLOYEES' INTERESTS

The Chamber of employees (Chambre des salariés, CSL), which was constituted as a result of the introduction of the unique status has about 550.000 adherents. It plays a major role in the consultation process regarding national legislative procedures. Its opinion is required on all bills in relation with its adherents before the final vote in the Parliament.

The CSL publishes documentation on legal issues regarding labour law, social security law as well as viewpoints and opinions on economic and social topics. It also organises public conferences with relation to the work environment.

The CSL appoints the employee and retiree representatives which sit within the Caisse nationale de santé (National Health System), the Assurance pension (retirement insurance), the labour court and the social security jurisdictions.

Further education for adults is one of the main activities of the CSL. The Luxembourg Lifelong Learning Center (LLLC), the further education centre of the CSL, proposes a large panel of evening courses, seminars, university degrees, specialised training courses and professional certifications.

The LLLC facilities are located in the heart of Bonnevoie, ideally connected to the public transport network and in close proximity to the central station. It is not only a training space, but also a lively place of exchange which can host working meetings, conferences as well as cultural gatherings in the best conditions.



LUXEMBOURG LIFELONG
LEARNING CENTER
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ITS OFFER IS MAINLY CONSTITUTED BY THE FOLLOWING TRAINING COURSES

- 255 modules in evening classes
- 200 seminars per year
- Diplôme d'Accès aux Études Universitaires - Option Littéraire (DAEU-A)
- Master Administration des Entreprises
- Master Marketing et Communication
- Master Commerce Électronique
- Master Banque, Finance, Assurance, parcours Fonds et Gestion Privée
- Master Contrôle de Gestion et Audit Organisationnel
- Master Financial Analysis and Strategy (English)
- Master Gestion des Ressources Humaines et Relations du Travail
- Master Management des Organisations du Secteur Sanitaire et Social
- Licence de Gestion
- Licence Métiers de la Gestion et de la Comptabilité, parcours Contrôle de Gestion
- Bachelor in Applied Informatique Technology - Continuing Education Programme
- Bachelor en Sciences Sociales et Éducatives
- Diplôme d'Université de Sophrologie
- Diplôme Gestion de Patrimoine
- Diplôme Risk Management
- Certificat Contrôle Interne / Certified Internal Control Specialist (CICS)
- Formations pour Seniors
- Cours d'initiation à la langue luxembourgeoise A1.1

CERTIFICATIONS

- European Computer Driving Licence ECDL (English, Français, Deutsch)
- Pearson VUE - IT certification and professional licensing (English)
- Kryterion (English)

LLLC

Luxembourg Lifelong Learning Center

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