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Postgraduate Diploma in Computing in Cybersecurity

Who is the Postgraduate Diploma in Computing in Cybersecurity for?

The Labour market Review Information and Communication Technology 2016 states that "Ireland is home to the top 10 technology companies in the world, as well as the top 5 security companies".

This course is a level 9 Postgraduate Diploma in Computing in Cybersecurity. The objective of the course is to guide learners who have good general experience in and knowledge of technical computing and augment their skills and knowledge in readiness to begin a career in Cybersecurity.

Forecasting the Future Demand for High-Level ICT Skills in Ireland, 2017-2022 report says that there was a shortfall of approximately 2 million cybersecurity professionals worldwide with many companies struggling to fill cybersecurity roles. The report goes on to state that "Cybersecurity is a discipline where demand so outnumbers supply that new creative methods are being employed to upskill people from different backgrounds with the necessary skills."

How will the course be delivered?

This course will be delivered part time (online) in the evenings. Delivery in this mode will facilitate upskilling and reskilling the widest possible group of company employees without requiring employees to cease employment while doing the course. As the course will be delivered online, it won't matter where in the country students are located.

Students can do two modules per session with 4 sessions per academic year over one academic year.

Minimum Entry Requirements

The course will be available to applicants who meet the following criteria:

➢ A level-8 qualification in Computing.
➢ a level-7 qualification in a Computing with 3 years appropriate work-experience.

➤ Candidates who do not hold these qualifications may also apply on the basis of Recognised Prior Learning which includes a combination of education, training and work experience. Candidates should have some knowledge of computer networks and operating systems.

Is there a demand for graduates with these skills?

The Future Skills Needs Vacancy Overview 2016 shows that 75% of recent job hires in ICT had a third-level qualification. The National Skills Bulletin 2017 reported that this had risen to 80% by 2017. In 2016 35% of all "difficult to fill vacancies" were in ICT. The Skills Bulletin 2017 shows that 16,000 people are employed as IT Technicians but that this number declined in 2015/16 despite an overall growth in ICT employment. The Skills Bulletin 2017 goes on to discuss a shortage of skilled people available to work in Cybersecurity and this shortage is also identified in the Vacancy Overview 2016 report.

The Labour market Review Information and Communication Technology 2016 report projects significant growth in demand for Cybersecurity graduates for the next 5 years "Cybersecurity is set for rapid growth, spurred by the expanding Cloud Computing and IOT industries". According to Gartner Inc., the global cybersecurity market will reach $170 billion by 2020, up from $75 billion in 2015.

Course Structure

Modules	Mandatory/Elective	No of ECT credits
Secure Infrastructure	Mandatory	10
Cryptography & Forensic Analysis	Mandatory	10
Information Security Management 1	Mandatory	10
Software Compliance	Mandatory	10
Information Security Management 2	Mandatory	10
Web Application Security & Software Standards	Mandatory	10
Placement	Elective	10
Employability Studies	Elective	10

Timetables will be issued early to mid-September from the Department of Administration.

Delivery Notes

- 100% Online, all students registering on the course should check the landing page for additional course information.
- A 2MB Internet connection is recommended for online classes. Additional notes and student updates will be provided via Blackboard which is the online teaching support system (Virtual Learning Environment (VLE)).
- It is recommended that students have a headset for online classes and use a Chrome or Firefox web browser.
- When students have registered they will have access to additional detailed information about course delivery and college services through our website. Students should make sure they familiarise themselves with this information.

Course Fees
Springboard will cover 90% of the course fees for students who are currently in employment and 100% of the fees for students who are currently unemployed. The student contribution of 10% is €670.

Application Form
Applications can be made via the Springboard website www.springboardcourses.ie All applicants are required to provide a copy of their C.V., a copy of their highest education qualification certificate and documentary evidence of their eligibility for Springboard including residency (i.e., that they have been ordinarily resident in Ireland or the state EEA/EU/UK/Switzerland for 3 out of the last 5 years). Eligibility criteria for Springboard is available on the Springboard website at https://springboardcourses.ie/eligibility

Registration

Registration with LYIT will be in August 2021 through the Department of Admissions. The course will start on 1st September 2021.

Further Information

For further information on the course, contact Thomas Dowling, Head of Department of Computing, Letterkenny Institute of Technology on **E- Mail: thomas.dowling@lyit.ie**

For further information on applying via Springboard contact the Springboard Office, Letterkenny Institute of Technology on **E- Mail: springboard@lyit.ie**