



**lyit**

Institiúid  
Teicneolaíochta  
Leitir Ceanáin

Letterkenny  
Institute  
of Technology

**Department of Business Studies  
Information Booklet**

**Certificate in  
Mainframe Technologies  
(Online)**

(Level 8, 35 ECTS)

September 2020



## USEFUL CONTACTS

|                          |                                  |  |
|--------------------------|----------------------------------|--|
| Mr Michael Carey         | Module Lecturer                  | <a href="mailto:michael.carey@lyit.ie">michael.carey@lyit.ie</a>       |
| Ms Christine McCabe      | School of Business Administrator | <a href="mailto:christine.mccabe@lyit.ie">christine.mccabe@lyit.ie</a> |
| Blackboard / IT Services | (00353) 74 9186050               | <a href="mailto:helpdesk@lyit.ie">helpdesk@lyit.ie</a>                 |

## PROGRAMME SCHEDULE

Online classes will commence with an introductory lecture on Monday 28<sup>th</sup> September from 6-7pm. 'Live' online classes will run every Wednesday evening from 6-9pm. These will be supported with drop-in online clinic sessions each Monday evening from 6-7pm starting September 28<sup>th</sup>.

|           |       |                |
|-----------|-------|----------------|
| Monday    | 6-7pm | Drop-in Clinic |
| Wednesday | 6-9pm | Live classes   |

New material will be made available every Monday evening at 7pm and will be discussed during the Wednesday evening class.

Students will complete the following modules:

- Mainframe Application Development 1 (COBOL)
- Mainframe Application Development 2 (COBOL/ DB2/ CICS)
- Mainframe Application Development 3 (PL/I)

The programme will finish with the completion of an Applied Work Based Learning Project

## GETTING STARTED - REGISTRATION

You will have received information by post from LYIT explaining how to register for your programme with the logon details provided in your letter: visit [www.lyit.ie](http://www.lyit.ie), click on 'Student Hub' and then choose 'Online Registration'.

## GETTING STARTED – ONLINE LEARNING PLATFORM (BLACKBOARD)

Blackboard is the online learning platform used by LYIT's distance learning student to access course material and participate in classes online. Detailed instructions on how to get started with blackboard are available at <https://www.lyit.ie/Student-Hub/Online-Students>.

## PROGRAMME OVERVIEW

The Certificate in Mainframe Technologies enables students to develop core competencies and skills in mainframe technologies. The course will develop a very employable skill set in mainframe technologies and business systems with a strong emphasis in application development using the business languages COBOL and PL/I. These skills are transferable throughout the wider computing industry.

### Key Features:

- Level 8 Programme
- Blended and flexible mode of delivery
- Full access to IBM Mainframe services
- Strongly aligned with industry jobs
- Personal and supportive approach to teaching and learning
- Skill base is transferable throughout the wider financial technology and general financial services areas

Having completed this programme learners will be able to:

1. Adapt the use of the mainframe utilities JCL, TSO, ISPF, SDSF, and their effectiveness with the COBOL (both batch and on-line CICS) and PL/1 programming environment.
2. Design, configure and implement a DB2 environment, facilitating the integration of this database technology to the programming environment using imbedded SQL code.
3. Design and program extensively using the business language COBOL (Common Business Oriented Language).
4. Design and program extensively using the programming language PL/1 (Programming Language One)

LYIT is one of the only 3<sup>rd</sup> level institutions currently delivering programmes in mainframe technologies. In the most recent Master of the Mainframe competition (the largest global student mainframe competition) which is open to all Higher Education Institutions, LYIT was the only HEI in the UK and Ireland category. In fact, LYIT is the most successful HEI in the UK and Ireland category to date. *“Congratulations as once again you have the largest number of Part 1,2 & 3 Finishers. Keep up the good work with championing Master the Mainframe!”*, Sue Wyatt, Operations Manager, IBM z Systems Software, Jan 2019.

We wish you well with your studies. Don't hesitate to contact us if you have any queries.