



# PART THREE

Your education doesn't have to stop at undergraduate level. LYIT offers an extensive range of flexible postgraduate learning opportunities in a variety of interesting areas, including Executive and Professional Masters, Taught Masters and Higher Diplomas.



# POSTGRADUATE COURSES AT LYIT

## Staidéar larchéime ag LYIT

At LYIT we have a wide range of programmes - from specialist masters and executive education to higher diplomas and research Masters programmes - which are designed to prepare graduates to face the challenges of complex business environments.

The Institute's academics hold the highest qualifications from some of the most prestigious universities. This, combined with their industry experience, helps provide

an environment of excellence in teaching and research where students study a wide range of subjects through a variety of teaching methods. Our success within this postgraduate space is down to an unwavering commitment to excellence.

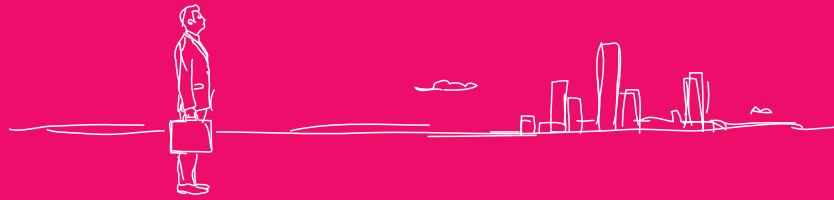
Take time to explore the postgraduate opportunities available, and join us on a journey we promise you won't regret!

# Executive & Professional Masters

Master of Business in Innovation & Leadership

Master of Science in Innovation Management in the Public Service

Master of Arts in Learning and Teaching



# Innovation & Leadership

## Master of Business in Innovation and Leadership

National Framework:	Level 9
LYIT Internal Code:	LY_BINOL_M
Duration:	2 years, part-time
Number of Places:	15

### Is this the course for you?

The highly successful Master of Business in Innovation & Leadership is a proven Masters degree programme that develops the leadership talent of managers to deliver significant business improvement in their participating firms.

This programme has been developed by LYIT in consultation with business support agencies, major industry employers and employer groups.

### Key Features

- Focused on developing responses to key strategic issues.
- Leading national and international best practice speakers.
- Discussion-based mode of delivery.
- Two and three day block delivery over two years.
- Action learning communities of practice using reflective learning approach.
- Assignment is based and centred on work issues.
- Dissertation based on major in-house organisational project.

### Career opportunity

This programme aims to substantially develop the capability of executive managers as innovating leaders and to develop significant business improvement in participating organisations.

### Minimum entry requirements

The minimum entry requirements are a Level 8 Honours Degree in any discipline, second class honours (2.2). If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).

### What will I study?

Semester 1	Credits	Semester 2	Credits
Managing People & Organisations (M)	5	Action Learning Research (M)	5
Innovation and New Product Development (M)	5	Corporate Governance (M)	5
Leadership (M)	10	Advanced Financial Accounting (M)	5
Managing Change (M)	5	Knowledge Management & Learning (M)	5
Driving Innovation (M)	10	Dissertation (M)	20

(M) = Mandatory

### Follow-on courses

- Level 10 studies (Doctoral) at other Institutions and universities at home and abroad

# Innovation Management in the Public Service

## Master of Science in Innovation Management in the Public Service

National Framework:	Level 9
LYIT Internal Code:	LY_BIMPS_M
Duration:	2 years, part-time
Number of Places:	20
Awarding Body:	LYIT & Ulster University (Joint Award)

### Is this the course for you?

The highly successful Master of Science in Innovation Management in the Public Sector develops the leadership talent of public sector managers in order to deliver significant organisational improvement in participating organisations. It draws on the real life experience of its participants and is the only North-South programme of its kind.

This programme has been developed by LYIT and Ulster University in collaboration with the Office of An Taoiseach and the Office of the First Minister and Deputy First Minister who were integral to deciding on the content, structure and philosophy of the programme.

### Key Features

- Focused towards developing responses to key public reform agenda issues
- Leading national and international best practice speakers
- Discussion-based mode of delivery
- 8 x 2 day block delivery over 2 years
- Action learning communities of practice – reflective learning approach

- Assessment is assignment based and centred on work issues
- Dissertation held on major in-house and organisational project
- Residential modules based in the Republic of Ireland and Northern Ireland

### Career opportunity

This programme aims to substantially develop the capability of executive managers as innovating leaders and to develop significant business improvement in participating organisations.

### Minimum entry requirements

The minimum entry requirements are a Level 8 Honours Degree in any discipline, second class honours (2.2). If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL). You must be in relevant employment within the Public Service.



What will I study?

Semester 1	Credits	Semester 2	Credits
Context of Innovation & Transformation in Government (M)	15	Trasformational Leadership & Strategic Management (M)	15
Change Management in Public Service (M)	15	Driving Innovation in Public Services (M)	15
Citizen-Centric Public Service Delivery (M)	15	Performance Evaluation & Control (M)	15
Culture in Innovating Organisations (M)	15	Research Project (M)	30
Information Sharing, Integration & Inter-Operability (M)	15		

(M) = Mandatory

Follow-on courses

- Level 10 studies (Doctoral) at other Institutions and universities at home and abroad





## Learning and Teaching

### Master of Arts in Learning and Teaching

National Framework:	Level 9
LYIT Internal Code:	LY_HMALT_M
Duration:	2 years, part-time
Number of Places:	20

#### Is this the course for you?

This level 9 programme is designed to support the development of learning and teaching within third level, further education, post-primary and primary sectors. The modules explore the link between effective teaching and reflective practice, providing learners with the scope to critically analyse their own teaching practice. The programme offers a variety of pathways for students from the study of a single certificate (Minor Award) to completion of the full Masters in Learning and Teaching.

#### Key Features

A key aspect of the programme is the relationship between effective teaching and reflective practice; the imperative to reflect not only on what we should teach, but how effectively we teach. In every module critical reflective practice, based on evidence rather than anecdote, is required and used as the basis for self-evaluation and self-improvement. The collection and analysis of evidence is a prominent feature of the programme as a whole.

The programme promotes a student centred approach to learning and teaching. It supports professional development, providing an opportunity to develop skills through practically focused modules. The programme reflects the growing understanding of the central role of assessment and evaluation in learning and teaching and the importance of academic

writing and research at every stage of education. Students will have the opportunity to work collaboratively across disciplines with practitioners from all levels within education. In this way the programme provides a unique opportunity for educators across the North-West to deepen their understanding of learning and teaching across different stages of education. Key features include:

- Focused on developing professional practice in learning and teaching
- Leading national and international best practice speakers
- Blended learning delivery
- Work based learning and research in all modules
- Block delivery over 2 years at weekends
- Assessment is assignment based
- Links theory to practice.

#### Career opportunity

Successful graduates find themselves working in the following sectors:

- Primary Education
- Secondary Education
- Third Level Education
- Further Education

#### Graduate careers typically include:

- Primary School Vice-Principal/Principal
- Secondary School Vice-Principal/Principal
- Lecturer

#### Minimum entry requirements

The minimum entry requirements are a Level 8 Honours Degree, or equivalent, second class honours (2.2). If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL). Applicants should be currently involved in an active teaching role.

What will I study?

Semester 1	Credits	Semester 2	Credits	Semester 3	Credits	Semester 3	Credits
Student Centred Learning & Teaching (M)	10	Assessment (M)	10	Research Methods (M)	15	Dissertation (M)	30
Academic Writing in Research (M)	5	Enhanced Learning & Teaching through Creativity & Scholarship (M)	10	Choose one of the following electives (E): Technology Enhanced Learning Inclusive Curriculum Educational Leadership Management Effective Supervision Restorative Practice: A Transformative Approach to Teaching & Learning Recognition of Prior Learning	10		

(M) = Mandatory, (E) = Elective

Follow-on courses

- Further advanced Level 9 (Masters) and Level 10 studies (Doctoral) at other institutions and universities at home and abroad



# Taught Masters

Master of Arts in Accounting

Master of Science in Management Practice

Master of Science in Marketing Practice

Master of Science in Computing in Systems  
& Software Security

Master of Science in Computing in Big Data  
Analytics

Masters of Science in Computing in Private  
Cloud Technologies



# Accounting

## Postgraduate Diploma in Accounting Master of Arts in Accounting

**National Framework:** Level 9

**LYIT Internal Code:**  
LY\_BACCT\_M (Masters)  
LY\_BACCT\_G (Postgrad Dip)

**Duration:**  
1 year, full-time  
2 years, part-time  
PGDip: 9 months

**Number of Places:** 20



### Is this the course for you?

If you are committed to a career in accounting, this course will enhance your analytical skills and teach you advanced accounting subjects in theory and in practice. The course provides postgraduate education and training at the forefront of accounting and accounting-related practice.

### Key features

- Generous exemptions from ACCA, CPA, CAI, and CIMA.

### What will I study?

Semester 1	Credits	Semester 2	Credits
Tax Practice (M)	10	Advanced Finance (M)	5
Audit Practice (M)	10	Integrated Case Study (M)	5
Performance Measurement (M)	5	Advanced Financial Accounting (M)	5
		Corporate Governance (M)	5
Research Methods (M)	5	IT Applications for the Professional Accountant (M)	5
		Choose from one of the following Electives (E):	15
Academic Writing (O)	5	Work Based Learning Project	15
		Research Development & Dissertation	

(M) = Mandatory, (E) = Elective, (O) = Optional

### Follow-on courses

- Level 10 studies (Doctoral) at other Institutions and universities at home and abroad

- Proven track record with professional exams.
- Two month industry placement.
- 100% employment record including the “Big 4”.
- Leading national and international best practice speakers.

### Career opportunities

This innovative Masters programme is proving both popular and highly successful with a 100% employment rate for graduates. The programme was developed in close collaboration with the Professional Accounting Bodies and attracts significant exemptions.

### Graduate careers typically include:

Accounting roles in Multinational Organisations or Accounting Practices.

### Minimum entry requirements

Level 8 Honours Degree with a specialisation in Accounting, second class honours (2.2). However a 2.1 is preferable. If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).

# Management

Master of Science in  
Management Practice  
Postgraduate Diploma in  
Management Practice

National Framework: Level 9  
LYIT Internal Code:  
LY\_BMANG\_M (Masters)  
LY\_BMANG\_G (Postgrad Dip)  
Duration:  
1 year, full-time  
2 years, part-time  
PGDip: 9 months  
Number of Places: 15



## Is this the course for you?

This new Masters programme is aimed at business graduates who want to specialise in Management. The programme focus is on developing graduates into professional management practitioners; bridging the gap between management theory and professional practice. Placements and hands-on projects form an integral part of the programme, providing an

opportunity for a deeper understanding of contemporary management practices. The MSc in Management Practice provides a real opportunity for business graduates to grow their employment and career prospects. Learners will complete five taught modules in semester one, followed by a 12 week work placement in semester two. During the work placement support is provided through one day workshops at LYIT.

## Key features

- Industry placement
- Small class sizes, facilitating a learner centred approach
- Exposure to leading national and international practitioners
- Hands-on projects
- Best practice seminar series
- Focus on reflective learning

## Minimum entry requirements

The minimum entry requirements are a Level 8 Honours Degree in Business, or equivalent, second class Honours (2.2). If you don't have an Honours degree but have relevant experience you may also be eligible to apply.

## What will I study?

Semester 1	Credits	Semester 2	Credits
Managing the Innovation Process (M)	5	Applied Strategic Business Planning (M)	10
Sustainable Operations Management (M)	10	Business Analytics (M)	5
Accounting Information for Decision Making (M)	5	Behavioural Economics (M)	5
Research Methods (M)	5	Work Placement (M)	10
Academic Writing (O)	5	Dissertation (M)	15

((M) = Mandatory, (E) = Elective, (O) = Optional

## Follow-on courses

- Further advanced Level 9 (Masters) and Level 10 studies (Doctoral) at other Institutions and universities at home and abroad



Marketing

Master of Science in  
Marketing Practice

Postgraduate Diploma in  
Marketing Practice

National Framework: Level 9

LYIT Internal Code:  
LY\_BMARK\_M (Masters)  
LY\_BMARK\_G (Postgrad Dip)

Duration:  
1 year, full time  
2 years, part time  
PGDip: 9 months

Number of Places: 20



Is this the course for you?

This course will build on the knowledge and skills learned in the Bachelor of Business Honours (Marketing) and provides crucial experience through a work placement in industry. It will develop strategic marketing instincts and creative abilities, boosting your professional expertise and personal development. Modules include Digital Marketing and Driving Marketing in SMEs.

Key features

- Industry Placement
- New focus on digital marketing and analytics

What will I study?

Semester 1	Credits	Semester 2	Credits
Driving Marketing in SMEs (M)	10	Applied Strategic Business Planning (M)	10
Managing the Innovation Process (M)	5	Work Placement (M)	10
		Managing Sales (M)	5
Digital Marketing (M)	10	Business Analytics (M)	5
Academic Writing (O)	5	Dissertation (M)	15

(M) = Mandatory, (E) = Elective, (O) = Optional

Follow-on courses

- Level 10 studies (Doctoral) at other Institutions and universities at home and abroad

- Excellent track record of graduate employment in marketing positions
- Small class sizes, facilitating a learner centred approach
- Hands-on projects

Career opportunities

The in-depth knowledge and practical experience gained in this programme leaves graduates well placed to take up marketing positions with increased responsibility in all industries. Graduates may work in a specialist role for a large international company or as a marketing manager in a small business.

Graduate careers typically include:

- Strategic Marketing Executive
- International Sales and Marketing Manager
- Customer Relations Officer
- Product Development Manager
- Market Researcher

Minimum entry requirements

Level 8 Honours Degree in Business, or equivalent, second class honours (2.2). Applicants must have a minimum of 30 credits in marketing or marketing related modules. If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).







# Systems & Software Security

## Master of Science in Computing in Systems & Software Security

**National Framework:** Level 9  
**LYIT Internal Code:** LY\_KSSCT\_M  
**Duration:**  
1 year, full-time  
2 years, part-time  
**Number of Places:** 18

### Is this the course for you?

This Masters programme is a two semester taught programme in Computing which focuses on topics applicable to Systems and Software Security. This is followed by a placement and then a dissertation. The dissertation will offer the student the opportunity to apply a range of topics covered in the taught part of the programme to demonstrate an extended knowledge and ability in that area. The dissertation will normally be completed over one to two semesters. From an industry point of view, this programme was developed in partnership with the IT industry and with Pramerica in particular. The objective of developing the course is to ensure a supply of highly-skilled and experienced graduates

for key employers locally and throughout Ireland. The existence of the course and the placement reflects the commitment of employers to this field of expertise. Graduates from this course can expect to find attractive employment opportunities locally and nationally as there is a huge shortage of IT security graduates.

### Career opportunities

Successful graduates find themselves working in the following sectors:

- Companies running Large Computer Networks
- The Payment Card Industry
- Financial Services Companies

### Graduate careers typically include:

- Security Incident Analyst
- Secure Systems Manager
- IT Security Threat Analyst

### Minimum entry requirements

Level 8 Honours Degree in Computing, or equivalent, second class honours (2.2). If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).

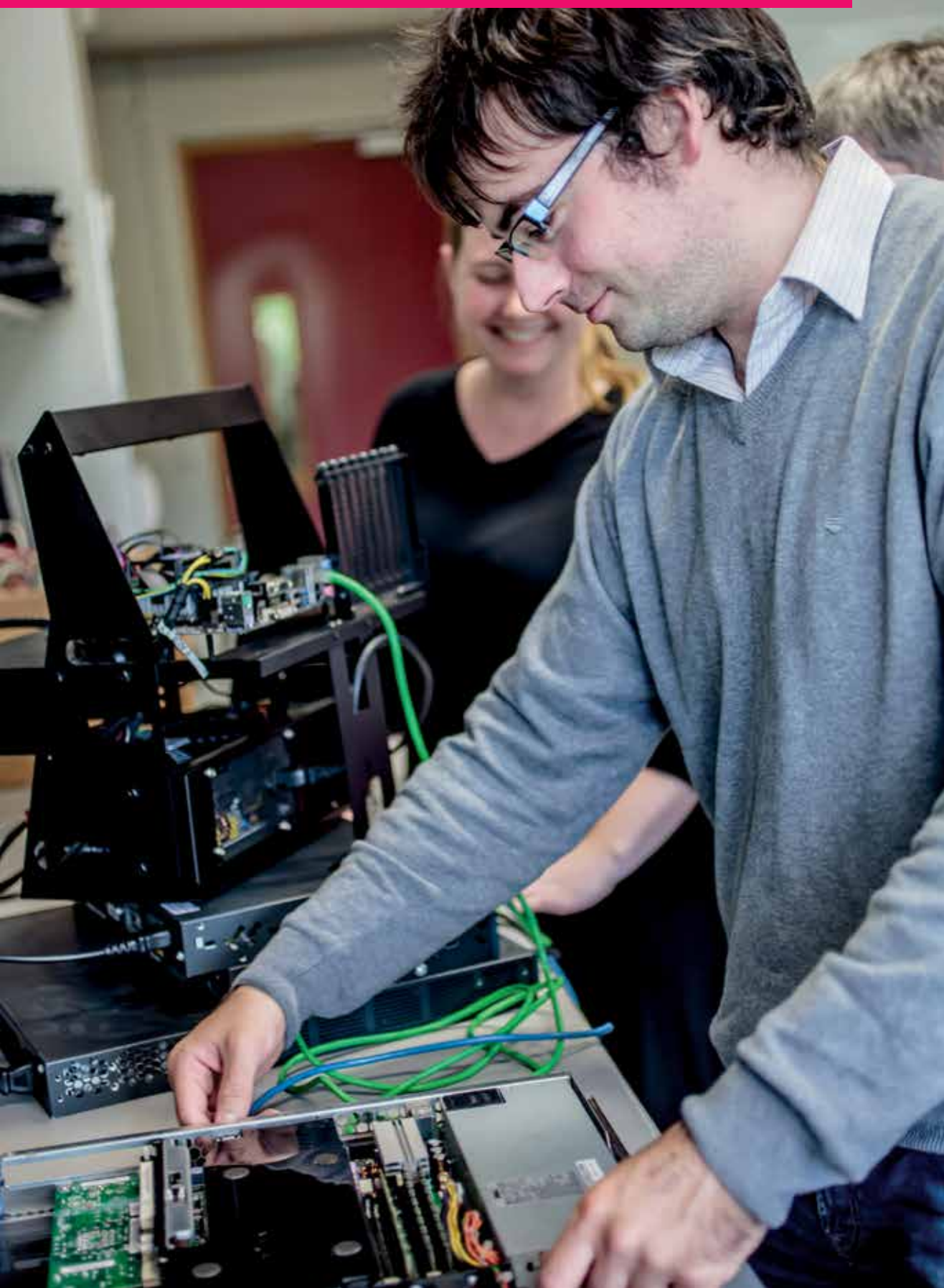
### What will I study?

Semester 1	Credits	Semester 2	Credits	Semester 3	Credits
Secure Infrastructure (M)	15	Security Threats & Countermeasures (M)	10	Placement (M)	10
Secure Programming Environments (M)	10	Computer Security & Cryptography (M)	15	Dissertation (M)	15

(M) = Mandatory

### Follow-on courses

- Level 10 studies (Doctoral) at other Institutions and universities at home and abroad



## Big Data Analytics

### Master of Science in Computing in Big Data Analytics

National Framework:

Level 9

LYIT Internal Code:

LY\_KDATA\_M

Duration:

1 year, full-time

2 years, part-time

Number of Places:

18

#### Is this the course for you?

Big Data Analytics is the process of examining large amounts of data of a variety of types (Big Data) to uncover hidden patterns, unknown correlations and other useful information. Such information can provide competitive advantages over rival organisations and result in business benefits, such as more effective marketing and increased revenue. More and more companies have moved into this field to exploit the huge volumes of data being captured by their IT systems. From banking and financial services to retail and health care and life sciences, the opportunities in big data analytics are expanding dramatically and this course provides learners with an excellent chance to enter the world of ‘Big Data’.

#### What will I study?

Semester 1	Credits	Semester 2	Credits	Semester 3	Credits	Semester 4	Credits
Business Intelligence (M)	10	Mathematics for Analytics (M)	15	Big Data Architecture (M)	10	Dissertation (M)	30
Machine Learning (M)	5	Big Data Analytics (M)	10	Data Science Project (M)	10		

(M) = Mandatory

#### Career opportunities

Successful graduates find themselves working in the following sectors:

- Companies running large database systems
- The payment card industry and financial services companies

#### Graduate careers typically include:

- Data Storage Manager
- Data Analyst
- Data Scientist

#### Minimum entry requirements

Level 8 Honours Degree in Computing, or equivalent, second class honours (2.2). Applicants must have a minimum of 30 credits in Computing or Computing related modules. If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).

Applicants may also attend a one week bridging course where necessary and study the following three modules: Database Management, Mathematics and Computer Systems.





## Private Cloud Technologies

### Master of Science in Computing in Private Cloud Technologies

**National Framework:** Level 9  
**LYIT Internal Code:** LY\_KCLGT\_M

**Duration:**  
 1 year, full-time  
 2 year, part-time

**Number of Places:**  
 20 (depending on availability of suitable placements)

### Is this the course for you?

This course is a level 9 MSc in Computing in Private Cloud Technologies. The objective of the course is to take graduates who have an honours degree in Computing and/or an appropriate mix of academic qualifications and IT experience and augment their skills and knowledge in readiness to begin a career in Private Cloud Technologies. It is designed to ensure that graduates are given both a base for continuing self-development and a set of skills which are transferable to the broader computing industry. These skill sets are reinforced with a strong emphasis on teamwork. The main aim of the course is to produce graduates with the required theoretical and hands-on skills to allow them to work and participate effectively in a Cloud Technologies environment.

This course may also be delivered off-site and in distance/blended/block delivery mode where there is demand for this type of delivery.

### Career opportunities

Successful graduates find themselves working in the following sectors:

- Insurance Companies

- All major IT Multinationals
- All types of Companies using large Data Centre Based IT Systems

### Graduate careers typically include:

- Cloud Architect/Engineer
- Cloud Systems Administrator
- Cloud Services Developer

### Minimum entry requirements

Level 8 Honours Degree in Computing, or equivalent, second class honours (2.2). If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).



What will I study?

Semester 1	Credits	Semester 2	Credits	Semester 3	Credits
Private Cloud Technologies (M)	10	Placement	10	Dissertation	30
Enterprise & Data Centre Networking	10	Please choose one of the following Electives (E): Security & Legal Issues (E1) Storage Technologies (E1)	10 10		
Please choose one of the following Electives (E): Virtual Server Administration (E1) Computer Systems Programming (E2)	10 10	Please choose one of the following Electives (E): Data Centre Industrial Automation (E2) Advanced Database Development (E2)	10 10		

(M) = Mandatory, (E) = Elective

Note: Students must choose the block of elective modules associated with either E1 or E2. They may not mix modules from the elective blocks.

Follow-on courses

- Masters degrees (by research)
- Level 10 studies (Doctoral) at other Institutions and universities at home and abroad.





# POSTGRADUATE SCHOLARSHIPS

## PUSHING BOUNDARIES: FULL-TIME POSTGRADUATE TAUGHT MASTERS PROGRAMMES



Are any of our outlined full-time taught Masters appealing to you? If so, then we could have a scholarship which is of interest to you. We offer up to 30 Masters Scholarships to the value of €2,000 for the following programmes:

- MA Accounting (LY\_BACCT\_M)
- MSc in Marketing Practice (LY\_BMARK\_M)
- MSc in Management Practice (LY\_BMANG\_M)
- MSc in Computing Systems & Software Security (LY\_KSSCT\_M)
- MSc in Big Data Analytics (LY\_KDATA\_M)
- MSc in Private Cloud Technologies (LY\_KCLGT\_M)

### Agreement:

- Scholarship for an MSc or MA programme (full-time) worth €2,000 to a student, who meets the pre-determined criteria, which will be allocated towards course fees.
- The scholarship will be in the form of a €1,000 reduction in the fees in each of the two semesters.
- Scholarships will only be available to those students not in receipt of another form of financial assistance from any grant awarding bodies to study.
- Scholarships are only available to EU students.
- The scholarship can be allocated towards any of the previously mentioned full-time taught postgraduate programmes.
- A Postgraduate Programmes Application Form can be found online at [www.lyit.ie](http://www.lyit.ie). ie. Section Eight of the Postgraduate Application Form has to be completed for a student to be considered for the scholarship.

### Conditions of Scholarship:

- The student needs to be registered as a student at LYIT on the programme in respect of which the Scholarship is being awarded by the due registration date.
- Failure to complete the registration requirements by the due date will render the student ineligible for the award without further notice.
- The individual in receipt of the Scholarship must be attending the programme on a full-time basis.
- If the holder withdraws from the programme for which she/he has registered or fails to continue throughout the session to meet the attendance, she/he will forfeit the Scholarship and will be required to repay to the Institute the whole or any part of the Scholarship as may be decided. In addition, the scholarship is subject to satisfactory performance in examinations.
- The Scholarship is only available in the year in which it is offered. It may not be deferred.
- The Scholarship will be awarded on academic merit. Minimum honours 2.2 is required.



# Higher Diplomas

Higher Diploma in Arts in Financial Services Technologies

Higher Diploma in Arts in Governance and Compliance in Financial Services

Higher Diploma in Arts in 3D Modelling and Animation

Higher Diploma in Science in Computing

Higher Diploma in Science in Computing Business Systems Analysis and Design

Higher Diploma in Science in Computing in IT Project Management

Higher Diploma in Arts in Mainframe Business Information Systems & Infrastructure





# Financial Services Technologies


## Higher Diploma in Arts in Financial Services Technologies (conversion course into IT industry)

**National Framework:** Level 8

**LYIT Internal Code:** LY\_BAFST\_G

**Duration:**  
1 year, full-time  
2 years, part-time

**Number of Places:** 18



### Is this the course for you?

The Higher Diploma in Financial Services Technologies is a one-year taught course in technologies which are central to the financial services sector. The course was developed in collaboration with a number of key employers from the financial services industry and also incorporates a work placement. The Higher Diploma is essentially designed as a ‘conversion’ course from other disciplines into Financial Services Technologies. The course develops a very employable skill set in mainframe business systems and quality testing for the financial services sector with a strong emphasis on systems development using the business language COBOL. The course also adds complementary skills in client server business systems development, including database-driven and mobile platforms. Graduates from the course are strongly targeted to become best-of-class software developers and testers with an understanding of financial services core business processes and technologies. Graduates will also be equipped with the professional skills required to become future technology leaders.

### Key features

- Strongly aligned with industry job requirements regionally and nationally
- Skill set transferable to the wider computing and general financial services sectors regionally and nationally
- Blended/flexible mode of delivery
- Full access to IBM Mainframe services
- Personal and supportive approach to teaching and learning
- Non-degree holders with relevant experience may be eligible to apply

### Key Programme Successes

- 100% graduate employment record
- LYIT was the best performing third level institution overall in UK & Ireland region of the IBM Master the Mainframe competition 2015/16

### Career opportunities

The continued strength of the financial services sector in Ireland means there continues to be a high demand for skilled graduates from financial services organisations such as banks, insurance brokers and credit card companies. Graduates of this course have a 100% employment record. Roles include:

- Financial software developer
- Quality tester/engineer
- Business systems analyst
- Mobile application developer

### Minimum entry requirements

Level 8 Honours Degree in any discipline, second class honours (2.2). If you don’t have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).



What will I study?

Semester 1	Credits	Semester 2	Credits
Mainframe Development (M)	10	Mainframe Development 2 (M)	10
Quality – Development Requirements & Testing (M)	5	Quality- Process Improvement & Test Automation (M)	5
Client Server Databases (M)	5	Mobile Applications (M)	5
		Teamwork (M)	5
Financial Planning & Insurance Services (M)	10	Work Based Learning (M)	5

(M) = Mandatory

Follow-on courses

- Industry Standard Lotus and Loma Certification
- Masters degrees at LYIT and in institutes and universities at home and abroad





## Governance & Compliance

### Higher Diploma in Arts in Governance and Compliance in Financial Services

National Framework:

LYIT Internal Code:

Duration:

Number of Places:

Level 8

LY\_HGOVE\_G

1 year

20



#### Is this the course for you?

This is a one year conversion course for graduates into the financial services industry. No previous knowledge of financial services is required or assumed. The programme aims to meet the legal, governance and IT aspects of the compliance needs of financial service companies and has been developed in collaboration with a number of key employers from the financial services industry. The Higher Diploma is designed to enhance skills, judgement and ability to deal with practical issues in the management and practice of compliance in the financial services industry. The programme introduces graduates to the legal, governance and IT aspects of compliance and to their application to the financial services industry.

#### What will I study?

Semester 1	Credits	Semester 2	Credits
Financial Services (M)	10	Legal & Regulatory Aspects of Compliance (M)	10
Auditing (M)	10	IT Governance and Risk Management (M)	10
Information Systems Fundamentals (M)	5	Information Systems Auditing (M)	5
Regulation, Governance and Ethics (M)	5	Work Placement (M)	5

(M) = Mandatory

#### Follow-on courses

- Masters degrees at LYIT and in institutes and universities at home and abroad

#### Career opportunities

Successful graduates find themselves working in the following sectors:

- Financial Services
- Banking
- Insurance
- Pensions

#### Graduate careers typically include:

- Anti-Money Laundering Officer/ Supervisor/Manager
- Corporate Governance Manager
- Compliance Manager
- Case Analyst
- Internal Auditor

#### Minimum entry requirements

Level 8 Honours Degree in Legal, or equivalent, second class honours (2.2). Applications will also be accepted from candidates holding a qualification as a barrister or a solicitor in Ireland or the United Kingdom. If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).lds deemed equivalent to a Level 8 award.

# 3D Modelling & Animation

## Higher Diploma in Arts in 3D Modelling and Animation

**National Framework:** Level 8  
**LYIT Internal Code:** LY\_DMDLA\_G  
**Duration:** 1 year  
**Number of Places:** 20



### Is this the course for you?

There are many production pipelines in industry that require content developed for specific purposes. Game assets will differ from feature animation for example; SFX and compositing assets will differ from architectural visualisation. This course however reconciles these forms of content creation and teaches the similarities and differences in creating for each. The pathway through the course will allow the student to decide to focus on specific areas such as games animation, special effects or feature animation. Each of the modules will allow for content to be created to fit into each of these pipelines while offering a grounding in the differences involved for each. The course will inform the process from concept development right through to integration

into various real-time and pre-rendered platforms used by sector leaders. New and emerging asset pipelines will also be explored such as augmented reality (AR) and Virtual Reality (VR) content creation.

### Career opportunities

Successful graduates find themselves working in the following sectors:

- Games
- Film
- Animation
- Advertising

### Graduate careers typically include:

- 3D Modeler
- Texturer
- Special Effects Artist

### Minimum entry requirements

Level 8 Honours Degree in Design, or equivalent, second class honours (2.2). If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).

### What will I study?

Semester 1	Credits	Semester 2	Credits
Concept Art for 3D (M)	5	Rigging and Animation (M)	5
3D Modelling and Sculpting (M)	20	Work Based Learning (M)	5
Texturing and Rendering (M)	5	Final Project (Asset Integration) (M)	20

(M) = Mandatory

### Follow-on courses

- Masters degrees at LYIT and in institutes and universities at home and abroad

## Computing

### Higher Diploma in Science in Computing

National Framework:	Level 8
LYIT Internal Code:	LY_KCOMP_G
Duration:	9 Months
Number of Places:	24

#### Is this the course for you?

The objective of the course is to take graduates in non-computing fields and augment their skills and knowledge in readiness to begin a career in the computing industry. It is designed to ensure that graduates are given both a base for continuing self-development and a set of skills which are transferable to the broader computing industry. These skill sets are reinforced with a strong emphasis on teamwork. The main aim of the course is to produce graduates with the required theoretical and hands-on skills to allow them to work and participate effectively in a commercial IT environment.

#### What will I study?

Semester 1	Credits	Semester 2	Credits
Software Development (M)	10	Software Development & Testing (M)	10
Database Technology (M)	10	Software Engineering & Quality Assurance (M)	10
Computer Systems (M)	10	Choose one of the following Electives (E):	
		Database Administration	10
		Internet Applications Development	10

(M) = Mandatory, (E) = Elective

#### Follow-on courses

- Masters degrees at LYIT and in institutes and universities at home and abroad
- Masters degree (by research)

#### Career opportunities

Successful graduates find themselves working in the following sectors:

- Insurance Companies
- Public Sector
- Banks and all types of Companies using IT Systems

#### Graduate careers typically include:

- Technical Writer
- Software Tester
- Database Administrator

#### Minimum entry requirements

Level 8 Honours Degree in Computing, or equivalent, second class honours (2.2). If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).

# Computing

## Higher Diploma in Science in Computing in Business Systems Analysis and Design

**National Framework:** Level 8  
**LYIT Internal Code:** LY\_KBSAD\_G  
**Duration:** 1 year  
**Number of Places:** 10 (depending on availability of suitable placements)

### Is this the course for you?

This course is a level 8 honours-degree-equivalent Higher Diploma in Science in Computing in Business Systems Analysis and Design. The objective of the course is to take graduates who have some knowledge of Computing and augment their skills and knowledge in readiness to begin a career in Business Systems Analysis and Design for IT. It is designed to ensure that graduates are given both a base for continuing self-development and a set of skills which are transferable to the broader computing industry. These skill sets are reinforced with a strong emphasis on teamwork. The main aim of the course is to produce graduates

with the required theoretical and hands-on skills to allow them to work and participate effectively in a Business Systems Analysis and Design environment.

### Career opportunities

Successful graduates find themselves working in the following sectors:

- Insurance Companies
- Banks
- All types of Companies using IT Systems

### Graduate careers typically include:

- IT Systems Analysis
- IT Systems Design
- Computer Interface Design

### Minimum entry requirements

Level 8 Honours Degree in Computing, or equivalent, second class honours (2.2). If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).

### What will I study?

Semester 1	Credits	Semester 2	Credits	Semester 3	Credits
Business Analysis (M)	10	UX and Web Based Applications (M)	10	Project (M)	10
Business Systems Analysis and Design (M)	10	Software Engineering (M)	10	Placement (M)	10

M) = Mandatory

### Follow-on courses

- Masters degrees at LYIT and in institutes and universities at home and abroad
- Masters degree (by research)

# Computing

## Higher Diploma in Science in Computing in IT Project Management

**National Framework:**

Level 8

**LYIT Internal Code:**

LY\_KPRJM\_G

**Duration:**

1 year

**Number of Places:**

10 (depending on availability of suitable placements)

### Is this the course for you?

This course is a level 8 Higher Diploma in Science in Computing in IT Project Management. The objective of the course is to take graduates who have some knowledge of Computing and augment their skills and knowledge in readiness to begin a career in IT Project Management. It is designed to ensure that graduates are given both a base for continuing self-development and a set of skills which are transferable to the broader computing industry. These skill sets are reinforced with a strong emphasis on teamwork. The main aim of the course is to produce graduates with the required

theoretical and hands-on skills to allow them to work and participate effectively in an IT Project Management environment.

### Career opportunities

Successful graduates find themselves working in the following sectors:

- Insurance Companies
- Banks
- All types of Companies using IT Systems

### Graduate careers typically include:

- IT Project Planner
- IT Project Manager
- IT Resource Tracker

### Minimum entry requirements

Level 8 Honours Degree in Computing, or equivalent, second class honours (2.2). If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).

### What will I study?

Semester 1	Credits	Semester 2	Credits	Semester 3	Credits
Project Management (M)	10	Project Management Frameworks and Methodologies (M)	10	Project (M)	10
Professional Skills (M)	10	Software Engineering and Management (M)	10	Placement (M)	10

M) = Mandatory

### Follow-on courses

- Masters degrees at LYIT and in institutes and universities at home and abroad
- Masters degree (by research)

# Mainframe Business Information Systems & Infrastructure

## Higher Diploma in Arts in Mainframe Business Information Systems & Infrastructure

National Framework:	Level 8
LYIT Internal Code:	LY_BMFBI_G
Duration:	1 year
Number of Places:	20

### Is this the course for you?

The Higher Diploma in Mainframe Business Information Systems and Infrastructure is a one-year taught course in mainframe development and systems programming. The course was developed in collaboration with a number of key employers who have identified a gap in mainframe programme provision in Ireland. The Higher Diploma is essentially designed as a ‘conversion’ course from other disciplines into mainframe computing and incorporates a work placement.

### What will I study?

Semester 1	Credits	Semester 2	Credits
Mainframe Application Development 1 (Cobol) (M)	10	SYSPROG 2 (z/OS Systems Programming Fundamentals) (M)	10
Mainframe Application Development 2 (Cobol/DB2/CICS) (M)	10	SYSPROG 3 (IBM MQ V8 System Administration for z/OS) (M)	5
SYSPROG 1 (z/OS Infrastructure) (M)	5	Mainframe Application Development 3 (PL/1) (M)	10
		The Mainframe IDE and Supporting Coding Languages (M)	5
		Work Based Learning (M)	5

(M) = Mandatory, (E) = Elective

### Follow-on courses

- Master of Science in Systems & Software Security
- Masters degrees at LYIT and in institutes and universities at home and abroad

### Career opportunities

Mainframe programmers are currently in very high demand. Successful graduates may find themselves working in a wide range of sectors. Graduate careers typically include:

- Mainframe Tester
- Mainframe Programmer
- Mainframe Developer
- Mainframe Administrator
- Analyst/Programmer
- Systems Administrator
- Cobol Developer

### Key Features

- Strongly aligned with industry job requirements regionally and nationally
- Blended / flexible mode of delivery
- Full access to IBM Mainframe services
- Personal and supportive approach to teaching and learning
- Non-degree holders with relevant experience may be eligible to apply

### Minimum entry requirements

Level 8 Honours Degree in any discipline, second class honours (2.2). If you don't have an honours degree but have relevant experience you may also be eligible to apply via Recognition of Prior Learning (RPL).