

INSTITUTE *of*
TECHNOLOGY
CARLOW

Institiúid Teicneolaíochta Cheatharlach

CELEBRATING
50
YEARS
1970-2020

POSTGRADUATE PROSPECTUS 2021

CARLOW
WEXFORD
and **WICKLOW**

**Engage
Learn
Innovate
Lead**

CONTENTS

Your Success Is Our Success



Welcome from the President	4
Graduate Attributes	5
Athena SWAN Bronze Award	6
Celebrating Fifty Years	7
Institute by Numbers	8
Institute Innovation Programmes 2017-2021	10
Postgraduate Opportunities	12
How to Apply	14
Postgraduate Programmes – Taught Masters: Carlow Campus	16
Postgraduate Programmes – Taught Masters: Wexford Campus	48
Postgraduate Programmes – Taught Masters: Wicklow Campus	62
Postgraduate Profiles	76
Postgraduate Research Masters and Doctoral Degrees	78
Life at Institute of Technology Carlow	90
Institute of Technology Carlow facilities	92
International office	94
Carlow town	96
Wexford campus and town	97
Wicklow campus and town	98
Dates for your diary	99
Key contact details	100
Postgraduate programmes, codes and fees 2021	101-103



WELCOME FROM THE PRESIDENT

Institute of Technology Carlow Postgraduate Prospectus 2021-2022

Choosing the right higher education institution and postgraduate programme are amongst the most important decisions you will make. I am delighted that you are considering Institute of Technology Carlow.

We are a learner-centred higher education provider dedicated to the creation of an environment where our learners can achieve their full potential and where our graduates are fully equipped to achieve the highest personal and professional standards. This is supported by exceptional people, high-quality programmes, excellent infrastructure and international partnerships and networks.

Currently home to almost 9,000 learners, we have more than 65,000 graduates to date achieving their career and personal goals across the globe. Our alumni are working with the most prestigious companies in the world, including the top computing, pharmaceutical and financial organisations. With the second-highest percentage of postgraduate learners in the Irish technological higher education sector, we have a broad range of taught advanced postgraduate programmes and postgraduate

research opportunities across our Centres of Research and Enterprise (CORES). Many of our programmes bring our learners into direct contact with professional practice through various means, including work placements, industry-based projects and clinical placements. This translates into programmes of study and internationally recognised qualifications across a range of discipline areas that are very relevant to real career opportunities in the employment marketplace, present and future.

You will find out more by reading our postgraduate prospectus, visiting our campuses in Carlow, Wexford and Wicklow and by visiting our website and social media platforms where you will discover what our learners and graduates have to say about us.

By selecting Institute of Technology Carlow, you are choosing to be amongst the most sought after graduates by employers. I wish you well with your choice and application and hope that I will soon be welcoming you to our Institute.

Dr Patricia Mulcahy
President

INSTITUTE of TECHNOLOGY CARLOW



Graduate attributes are descriptors of what it means to be an Institute of Technology Carlow graduate. They represent the qualities, skills and values that make our graduates unique. These attributes extend beyond academic disciplines and reflect the graduate's overall learning journey in the Institute.

Graduate attributes are learner-owned and each student will have their own interpretation of what the attributes mean to them. Institute of Technology Carlow is committed to providing the opportunities for all students to develop these attributes so that they can become empowered citizens of tomorrow.

Institute of Technology Carlow Awarded Athena SWAN Bronze Award for Advancing Gender Equality

In May 2019, Institute of Technology Carlow was awarded the Bronze Athena SWAN Award by Advance HE in recognition of our work in advancing gender equality in academia, and in promoting diversity and inclusion for staff and students in higher education. It is one of only two Institutes of Technology to be recognised in this way.

Welcoming the announcement, Dr Patricia Mulcahy, President, said, "This is a highly significant achievement, placing the Institute amongst the first in the Technological Sector to achieve this award, and amongst the first in the higher education sector to achieve the award under the expanded Athena SWAN Charter. Achieving this award under the expanded charter is particularly noteworthy as it recognises a commitment across the Institute to addressing gender equality challenges in higher education more broadly, including, but not limited to, those experienced by women."

The Athena SWAN Charter is a flagship accreditation scheme which recognises action to address gender equality within our higher education institutions. Advance HE's Athena SWAN Charter was initially established in 2005 to encourage and recognise commitment to advancing the careers of women in science, technology, engineering, maths and medicine (STEMM) in higher education and research. The charter was subsequently expanded to recognise

work undertaken in arts, humanities, social sciences, business and law (AHSSBL), and in professional and support roles, and for trans staff and students. The charter now recognises work undertaken to address gender equality more broadly, and not just barriers to progression that affect women.

In a major national initiative supported by the HEA, the Athena SWAN Charter was launched in Ireland in early 2015.

The Bronze Athena SWAN award serves as the initial level of award, certifying an institution's commitment to the 10 key principles of the Athena SWAN Charter. Institutions are required to perform a critical self-analysis to identify problem areas and indicate that a plan has been developed to address these areas.

The Institutional Bronze Award for Institute of Technology Carlow recognises that our Institute has a solid foundation for eliminating gender bias and developing an inclusive culture that values all. We will now build further upon this in the coming months and years through the implementation and further development of our gender equality action plan and related initiatives.



INSTITUTE OF TECHNOLOGY CARLOW CELEBRATING 50 YEARS

CELEBRATING
50
YEARS
1970-2020

We are celebrating our 50th Anniversary in the 2020/21 academic year. This milestone year is a time to reflect on our history; reflecting on 50 years of changing the country and the world, acknowledging the people who have made it possible and looking to the future as we continue to evolve and lead.

For the past fifty years, we have made it our mission to open up education to all. As one of the largest technological higher education institutions in the country, we have already empowered over 65,000 graduates to transform their lives through learning, while helping to build stronger communities and drive the creation of a vibrant economy. Our success is founded on our long-standing commitment and responsiveness to providing essential higher education and research opportunities that underpin the economic, social, and cultural growth of Ireland, and our capacity to change, innovate and lead in a constantly changing environment.

Carlow has always been a centre of knowledge, scholarship and innovation. The region boasts a rich heritage of education, imagination and technological discovery. Tyndall, Dargan, Haughton, Lonsdale, Shackleton and Berkeley are just some of the thinkers and educators from this part of Ireland who continue to inspire

current and future generations. It was within this tradition that Institute of Technology Carlow was established in 1970. Over the intervening years, Institute of Technology Carlow's learner population has grown and has expanded its international reach, surpassing the original expectations of its founders. With a current student and staff cohort of almost 10,000 across centres in Carlow, Wexford and Wicklow, the Institute, together with partners in industry, government and community, continues to play a key role in driving economic growth and social development in the regions and country it was established to serve.

With the signing of the country's Technological Universities Act into law in 2018, Institute of Technology Carlow is on track to achieve Technological University designation, a development which will usher in a new era of rapid evolution and transformation for the region.

Institute of Technology Carlow is grateful to the educators and learners, the thinkers and collaborators who have joined us on our journey to reach this milestone year and we look forward to the next 50 years of knowledge and innovation, of openness and engagement, of ambition and success.



INSTITUTE BY NUMBERS...

Buildings and Facilities

The Institute's €150m master plan has, to date, delivered:



FLOOR SPACE
INCREASE BY **40%**

4 NEW BUILDINGS
SINCE **2012**

N
E
W **€15m** **SOUTH SPORTS CAMPUS 2021**

€25m
NEW CENTRE FOR
APPLIED AND HEALTH SCIENCE



2,500+

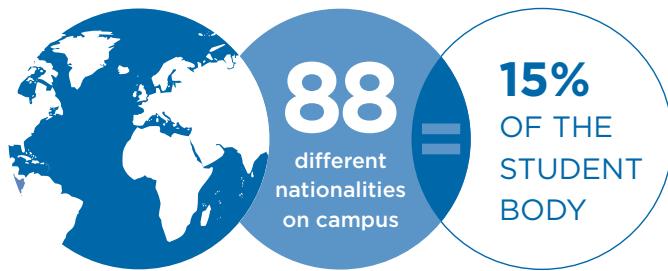
Major Award
Graduates
Annually

no.1 highest %
of FULL-TIME
POSTGRADUATES
in the
TECHNOLOGICAL
SECTOR

no.1
Highest %
of Lifelong Learners
(WTE) in the Higher
Education Sector

OVER 65 sport clubs and societies
70% participation rate

- | **9,000** Learners
- | **851** Staff
- | **3** Campuses



30 Million
Funding
Assisting
800+ SMEs

- R&D Solutions
- Knowledge Transfer and Commercialisation
- Enterprise Development
- Cross-border Innovation

TECHNOLOGICAL UNIVERSITY
of **SOUTH EAST IRELAND**

Designation day - 01 January 2022

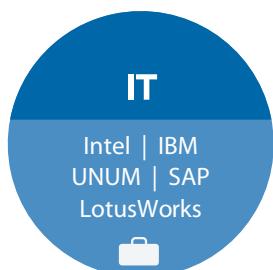
no. 2 highest % of
INTERNATIONAL
LEARNS
in the
TECHNOLOGICAL
SECTOR



2nd largest
IOT 2018
Total Enrolments

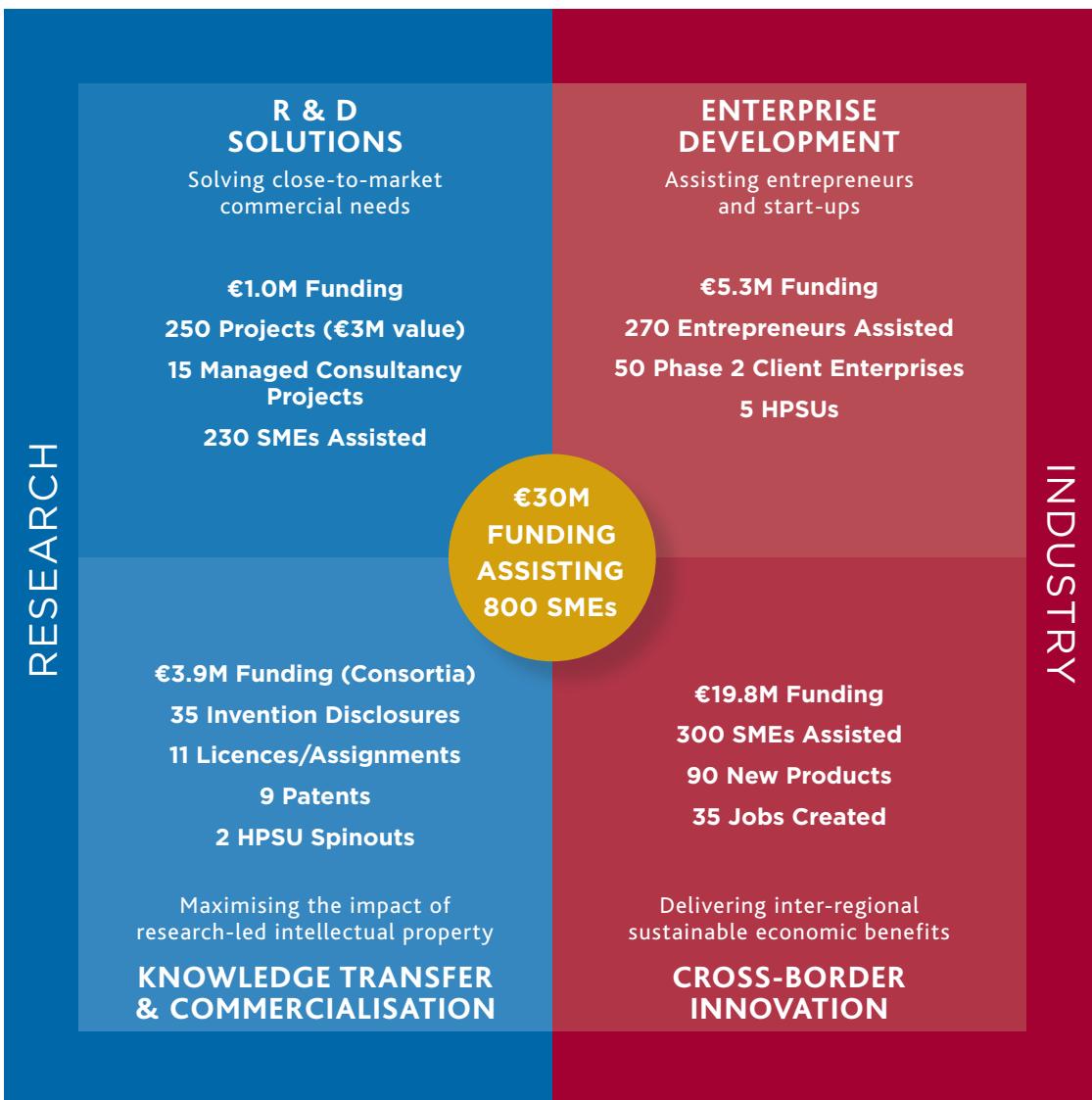
OVER 65,000
GRADUATES TO DATE

Top Employers of the Institute's graduates



INNOVATION PROGRAMMES 2017-2021





POSTGRADUATE OPPORTUNITIES

Institute of Technology Carlow

Institute of Technology Carlow has a range of high quality programmes that offer suitably qualified primary degree holders (NFQ level 8) exciting opportunities to progress to higher awards (Higher Diploma, Masters and Doctoral degrees). These opportunities may be undertaken by research and thesis, or through taught programmes. Programmes are available in full-time and/or part-time modes across our three main campuses in Carlow, Wexford and Wicklow.

Higher Diplomas (NFQ Level 8-60 credits) and **Postgraduate Diplomas** (NFQ Level 9-60 credits)

The Higher Diploma is normally awarded following completion of a programme of one year duration (60 ECTS credits). Entry requirements to a programme leading to a Higher Diploma differ across programmes so please refer to entry requirements for each individual programme. A Higher Diploma is typically in a different field of learning than the initial award.

Entry requirements for Postgraduate Diplomas are typically the same as for the Masters programme but are completed at NFQ Level 9 and require completion of just 60 credits. Students undertake the same subjects as Masters

students in that stream until they complete their Diploma. Postgraduate Diplomas are also offered as an exit award, should a student leave their Masters programme prior to completion.

Masters Degree (NFQ Level 9)

Institute of Technology Carlow offers two types of Masters degree programme: taught Masters programmes and research Masters programmes. The taught Masters degree is awarded following the completion of a programme of one to two years duration (typically 90 ECTS credits). Entry to a taught programme leading to a Masters award is typically for holders of Honours Bachelor degrees. In certain circumstances, entry to such programmes may be considered for holders of Ordinary Bachelor Degrees or equivalent. Research Masters Degree programmes are typically of two years duration where learners undertake a substantial piece of research. The project is carried out under the guidance of an experienced supervisor.

Learning outcomes at this level relate to the demonstration of knowledge and understanding at the forefront of a field of learning. Outcomes relate to the application of knowledge, understanding and problem solving abilities



in new or unfamiliar contexts related to the field of study. The outcomes are associated with an ability to integrate knowledge, handle complexity and formulate judgements. Outcomes associated with Level 9 link with employment at a senior professional or management level with responsibility for the work outputs of teams.

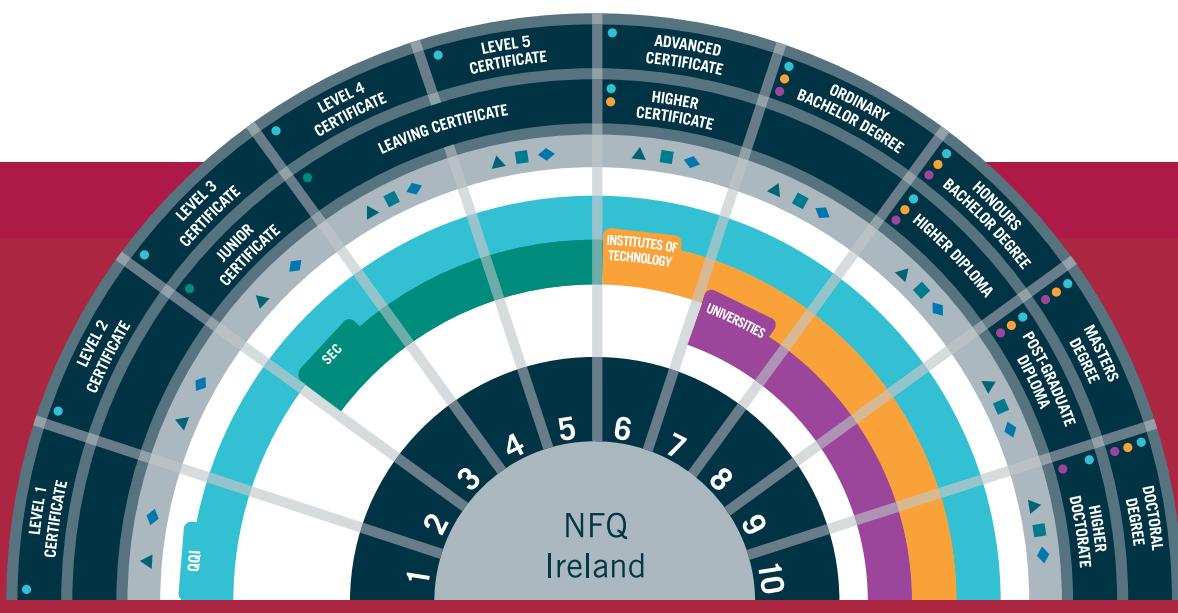
An Irish Masters Degree is compatible with completion of the Bologna Second Cycle.

PhD or Doctoral Degree (NFQ Level 10)

A PhD (NFQ Level 10) or doctoral programme should take from three to four years (full-time) to complete. ECTS credits are used in doctoral programmes for taught elements only. The Irish Doctoral Degree is compatible with completion of the Bologna Third Cycle. Learning outcomes at this level relate to the discovery and development of new knowledge and skills and delivering findings at the frontiers of knowledge and application. Further outcomes at this level relate to specialist skills and transferable skills required for managing, such as the abilities to critique and develop organisational structure and initiate change.

Postgraduate students may have to pass a series of examinations and/or assessments in order to progress through their course and may be required to attend for interview as part of the application process. As all courses have their own entry requirements, please refer to the relevant course page for detailed entry requirements.

Institute of Technology Carlow is constantly reviewing its postgraduate programme offering with new programmes under development annually. While all of our current postgraduate offerings are described in the forthcoming sections, keep up to date and find further details on all postgraduate offerings on our Institute of Technology Carlow website: www.itcarlow.ie or apply via the online postgraduate application system on www.pac.ie.



Source: QBI

HOW TO APPLY

APPLICATION PROCESS - TAUGHT PROGRAMMES

Please note that all Non-EU international student applicants must apply through our International Office. Please refer to the International section of the prospectus or our website: www.itcarlow.ie/international/non-eu-students or alternatively email: internationaladmin@itcarlow.ie.

Please note that all postgraduate applications for taught programmes at Institute of Technology Carlow should be completed online via PAC (Postgraduate Application System) www.pac.ie

Please check the full detailed listing of our postgraduate programmes and PAC codes on pages 101-103.

It is important to note that each programme has a different PAC code based on award level, schedule and campus location.

Timetabled hours may include daytime, evening and Saturday classes. Refer to individual course pages for further information.

Application process steps

1. Choose your programme(s) from our prospectus or online postgraduate programme listing on the Institute website.

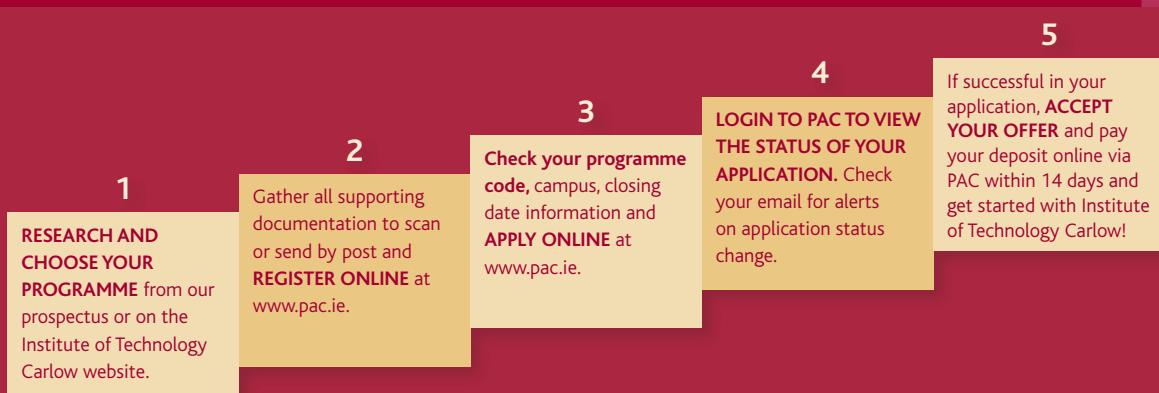
It is very important that you review all of the following before applying:

- Entry requirements
- Supporting documentation requirements for your application
- Course modules and information
- Schedule and location (i.e. part-time or full time, and which campus you would like to attend)
- Fees
- Relevant PAC code (see page 101-103 of the prospectus for a full detailed listing of all postgraduate programmes)
- Closing dates for applications.

Should you have any queries, or need further information on a particular programme of study, please contact the relevant programme director or head of department listed on the individual programme pages.

2. Register with PAC online at www.pac.ie and gather all supporting documentation required for your application (e.g. references, CV, personal statement etc.).

Scanned copies of your supporting documentation must be uploaded to www.pac.ie. Alternatively, supporting documentation can be posted to the Postgraduate Applications Centre, 1 Courthouse Square, Galway. Please



note that supplementary documentation should be sent within 7 days of your online application. Documents must be in a clear format, of good quality and a readable size.

Poor quality/unreadable documents may affect the assessment of your application.

3. Apply online at www.pac.ie.

The PAC online application system is now open for new postgraduate applications for the academic year 2021/2022. This is an online application system that allows applicants, for a non-refundable fee of €50 paid directly to PAC, to apply for multiple postgraduate programmes at Institute of Technology Carlow. Applications will be considered in order of preference. If you are successful in receiving an offer on your first preference or first choice of programme, all other preferences will be excluded. Similarly, if you are unsuccessful in your first preference, then your second preference will be considered and so on.

Course selection may be from any of our Masters, Higher Diploma and Postgraduate Diplomas.

PAC may be contacted for support via email: pachelp@pac.ie or through the website. Applicants may contact Admissions via email: graduates@itcarlow.ie.

To ensure a place on your chosen course we advise registering as soon as possible. Certain programmes are restricted to a limited number of applicants and places on these courses are assigned on a first-come-first-served basis. Late applications will be considered on a case-by-case basis.

Institute of Technology Carlow reserves the right to request that some applicants attend for interview to determine their suitability for individual programmes.

4. Review application status via the *My Account* section on the PAC website.

All applicants will be notified by email of changes to the status of their application. Alternatively, applicants may login online any time to the PAC system under the My Account section to view their application. Applicants who receive an offer have 14 days to accept or decline that offer. Applicants who accept must also pay a deposit of €500 within 14 days which may be paid online via the PAC system. This deposit is then offset against the full tuition fee.

5. Getting started

Applicants who accept their offer should keep up-to-date by logging onto the Institute website. Our academic year starts in September and academic timetables and other news and events will be posted on the website and on other social media such as Facebook, LinkedIn, Twitter and Instagram.

APPLICATION PROCESS - RESEARCH PROGRAMMES

For more information and to apply for research opportunities, scholarships and funding, please email:

Dr Brian Jackson
Head of Postgraduate Studies
brian.jackson@itcarlow.ie



POSTGRADUATE PROGRAMMES – CARLOW CAMPUS

TAUGHT MASTERS



HEAD OF POSTGRADUATE STUDIES

Dr Brian Jackson
BA, PhD
[E: brian.jackson@itcarlow.ie](mailto:brian.jackson@itcarlow.ie)

Development Office
T: 059 9175000



BUSINESS, DIGITAL MARKETING AND DESIGN

Master of Business in Business	18
Master of Business Administration (MBA)	19
Master of Science in Supply Chain Management	20
Master of Science in Digital Marketing	21
Master of Arts in Interaction Design	22
Higher Diploma in Business in Supply Chain Management	23
Higher Diploma in Business Marketing	24
Higher Diploma in Business in Business Management	25
Higher Diploma in Business in International Business	26
Higher Diploma in Business in International Financial Services	27
Higher Diploma in Business in Tourism Marketing	28
Higher Diploma in Arts in Digital Media Design	29
Higher Diploma in Science in Digital Marketing with Analytics	30

HUMANITIES AND SOCIAL SCIENCES

Master of Arts in Child, Youth and Family Studies	31
Master of Arts in Teaching and Learning	32
Master of Arts in Leadership in Early Years Education and Care	33
Higher Diploma in Arts in Early Childhood Education and Care	34
Higher Diploma in Arts in Applied Social Studies (Professional Social Care)	35

COMPUTING AND DATA SCIENCE

Master of Science in Information Technology Management	36
Master of Science in Data Science	37

HEALTH AND SPORT

Master of Science in Strength and Conditioning	38
Master of Science in Sports Performance Analysis	39

SCIENCE

Master of Science in Medical Device Regulatory Affairs	40
Master of Science in Pharmaceutical Regulatory Affairs	41

ENGINEERING

Master of Science in Applied Research and Innovation	42
Master of Science in Management in the Built Environment	43
Master of Engineering in Applied Materials	44
Master of Science in Industrial Networks and Cybersecurity	45
Master of Engineering in Flight Test Engineering	46

Refer to pages
101-103 for full
course listings

NFQ LEVEL 9

Master of Business Business

	COURSE CODES CWB01 (MBus) CWB02 (PGDip)	DURATION 1 YEAR – FULL-TIME	LOCATION CARLOW	HEAD OF DEPARTMENT - BUSINESS Dr Martin Meagher BComm, MBA, MA, FCA, PhD E: martin.meagher@itcarlow.ie
	CWL03 (MBus) CWL04 (PGDip)	2 YEARS – PART-TIME		
What is the programme about?				
This postgraduate programme brings theory to life through its exciting work placement element and applied learning focus, enabling participants to apply acquired knowledge and competencies in a real-world workplace environment. The programme equips graduates with the attributes required by business to make an immediate contribution to the organisation through its work placement experience element. The industrial placement is of four months duration, from May to August, and affords the student a unique opportunity to implement and reflect on the theories learned on the programme. It will complement the student's education and broaden his/her skill set. A number of progressive local enterprises partner with us in this initiative. Work placement is recognised by prospective employers and students alike as being a very sought after aspect of an academic programme. Another new aspect of this programme is the module 'Communication for Professional Life'. As communication skills are generally deemed an integral element of enquiry-based learning, this module will prepare graduates for executive and leadership scenarios which require negotiation and persuasive expertise and ability with the written word.				
What will I be able to do when I finish the programme?				
In a job market increasingly featuring primary honours degree holders, this Masters Programme, with its work experience element, significantly increases graduates' chances of recruitment by highly attractive employers. The Master of Business programme is aimed at producing creative, flexible and dynamic individuals, who can take up or enhance roles as business practitioners, in Ireland or overseas. A Master of Business is an internationally recognised qualification and opens the door to many careers.				
What follow-on study opportunities are available?				
Graduates may pursue Level 10 (PhD) study opportunities upon successful completion of this programme.				

Entry requirements

Graduates of programmes in engineering, science, design and other disciplines are required to have completed the Higher Diploma in Business in Management (Level 8) or equivalent to be eligible for admission to the Master of Business programme.

All applicants will be considered on a case-by-case basis. Criteria to be considered will include academic qualifications, recognition of prior learning and/or the applicant's performance in GMAT or equivalent.

Institute of Technology Carlow reserves the right to require applicants to attend for interview to determine their suitability for the programme.



MBA

Master of Business Administration (MBA)

Refer to pages
101-103 for full
course listings

NFQ LEVEL 9

LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	LOCATION CARLOW	DURATION 2 YEARS – PART-TIME	COURSE CODES CWL05 (MBA) CWL06 (PGDip)	
--	-------------------------------	--	--	--

What subject areas will I study?

Strategic HR Management
Global Business, Leadership and Ethics
Advanced Strategic Management
Strategic Business Finance
Strategic Marketing Analysis and Implementation
Corporate Governance
Advanced Research Methods
Commercial Dispute, Negotiation and Resolution
Dissertation

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

This programme provides an opportunity for students to study for a Masters in Business Administration, corresponding to a Level 9 Qualification (90 ECTS credits).

This comprehensive MBA programme provides a structured, evidenced-based environment to experienced management professionals to expand on and develop their knowledge of the current global business environment and management systems. It provides students with the tools, techniques and skills to enhance their business knowledge and provide them with a competitive edge in industry and the jobs market. This programme not only builds knowledge in key areas such as current business technologies and systems, business models and strategies and people management. It also builds on the participant's

professional and personal skills including confidence building with presentations and team projects, networking amongst students from different industries and backgrounds and provides a challenging but open and reflective environment to discuss and research current issues affecting the business world on a global scale.

What follow-on study opportunities are available?

Graduates may pursue Level 10 (PhD) study opportunities upon successful completion of this programme.

Exit award

Students who successfully complete 60 credits of the MBA programme will be eligible for the Postgraduate Diploma in Business Administration (Level 9) should they opt to leave the programme (Embedded Exit Award).



Entry requirements

The MBA and Postgraduate Diploma (Embedded Exit Award) programmes are designed for graduates of Bachelor of Business Honours Degrees (Level 8) or equivalent. Graduates of programmes in Engineering, Science, Design and other disciplines are generally required to have completed the Higher Diploma in Business in Management (Level 8) or equivalent to be eligible for admission to the MBA programme.

Applicants applying for entry to the programme through progression routes, other than those listed, will be considered on a case-by-case basis. Criteria to be considered include academic qualifications, recognition of prior learning and/or the applicant's performance in GMAT or equivalent.

Applicants for the MBA programmes who hold a Postgraduate Diploma in Business (Level 9) programmes will be considered for entry on a case-by-case basis. All applicants must have three years relevant business management experience. Evidence must be provided of the nature and extent of this experience by at least one referee capable of assessing the applicant's managerial abilities.

Institute of Technology Carlow reserves the right to require applicants to attend for interview to determine their suitability for the programme.

Master of Science Supply Chain Management

	COURSE CODES CWB11 (MSc)	DURATION 1 YEAR – FULL-TIME	LOCATION CARLOW	LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie
	CWL15 (MSc) CWL16 (PGDip)	2 YEARS – PART-TIME		

What is the programme about?

This Masters programme offers a robust understanding of the concepts and best practices in Supply Chain Management for application in today's global economy. Supply chain management and sourcing have become a central focus for companies due to the rapid changes in demand for products and services, globalisation and technology. With operations becoming more complex, companies in the manufacturing, retail and technological sectors are searching for individuals with supply chain expertise. This programme has been designed in collaboration with industry to address those needs.

What will I be able to do when I finish the programme?

On completion, graduates of the programme will be able to:

- Apply comprehensive knowledge of theory and practice of Supply Chain Management to a variety of industry operations;
- Build and develop multi-disciplinary teams across all functions to bring about radical improvements in supply chain capability;
- Effectively plan and manage resources at each stage of the supply chain;
- Use critical thinking and research skills to design/redesign, implement and improve more sustainable, competitive and quality led supply chains from supplier to customer;

- Communicate effectively with teams at all levels internally and build more sustainable, beneficial relationships along all stages of the supply chain from supplier to customer.

What follow-on study opportunities are available?

Graduates may pursue Level 10 (PhD) study opportunities upon successful completion of this programme.

Potential employment opportunities

In light of current skills shortages in industry in the area of Supply Chain Management, this Masters programme will provide participants seeking jobs in this sector with a competitive edge. For those participants currently working in the area, the programme will enhance existing roles both on a professional and personal level by building on the practical skills and techniques required to succeed. It will also develop critical skills in areas such as process improvement, resource management, analytical and critical thinking, communication and sourcing and managing quality-led sustainable supply chains from supplier to customer.

This Masters programme will prepare graduates to work in a number of job roles:

- Supply Chain Analyst or Manager
- Project Managers
- Logistics Managers
- Operations consultants/ Manufacturing or Service Operations Managers
- Warehouse/Inventory Manager
- Purchasing Manager/Buyer/Planner.

What subject areas will I study?

Lean Manufacturing and Six Sigma
Communications for Supply Chain Professionals
Research Project SCM
Performance Management
Supply Chain Financial Management
Sustainable Supply Chains
Research Methods
Strategic Supply Management
Global Logistics and Technology

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

The Expert Group on Future Skills Needs Statement of Activity 2014

'The EGFSN forecasts that, due to an anticipated expansion in the sector, and the replacement demand arising from the retirement/exiting of those employed in core Freight, Transport, Distribution and Logistics occupations, some 13,500 to 15,500 job vacancies could become available over the period 2015-2020.'

There is a need for a consistent supply of suitably trained staff, as well as a need to retain and upskill those currently working in the sector. As staff progress through their careers, there is a requirement for training in additional skills for both operations and management roles.'

Entry requirements

Entry requirements are a Level 8 degree with a minimum of Second Class Honours, Grade 2 in a related discipline or equivalent. IT Carlow operates a Recognition of Prior Experiential Learning (RPL) scheme whereby applicants may be considered, based on relevant work and other experience, for exemptions from programme modules and advanced entry. All applicants will be considered on a case-by-case basis. The Department reserves the right to require applicants to attend for an interview to determine their suitability for the programme.

Exit award

Postgraduate Diploma in Science in Supply Chain Management is an Embedded Exit Award.



Master of Science Digital Marketing

Refer to pages
101-103 for full
course listings

NFQ LEVEL 9

**HEAD OF DEPARTMENT – SPORT,
MEDIA AND MARKETING**
Myles Kelly
BComm, DipCompSc, FCA, MA
E: myles.kelly@itcarlow.ie

LOCATION
CARLOW

DURATION
1 YEAR – FULL-TIME

COURSE CODES
CWB07 (MSc)
CWB08 (PGDip)

What subject areas will I study?

Digital Marketing Landscape and Strategy
Marketing Communications in a Digital Era
Data Analytics and Consumer Insights
Strategic Design
Digital Marketing Technologies
Strategic Marketing Management
Law and the Digital Environment
Digital Marketing Research Project

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

The digital era has dramatically changed the marketing landscape and the way that businesses identify, communicate and engage with consumers. Marketing professionals must navigate and embrace this new and dynamic landscape. The MSc in Digital Marketing at Institute of Technology Carlow is aimed at graduates and professionals seeking to explore the strategic implications of the digital era and to develop their career path in digital marketing.

This innovative and exciting programme will provide potential learners with an opportunity to study for a MSc in Digital Marketing corresponding to a Level 9 qualification (90 credits) or a Postgraduate Diploma (60 credits).

The MSc combines academic study and industry exposure to deliver a programme that has a strong focus on current and emerging research and practice. Application may also be made to the Level 9 Postgraduate Diploma in Digital Marketing (60 credits).

What will I be able to do when I finish the programme?

The MSc in Digital Marketing is designed to help learners identify

the strategic implications of digital era marketing and to create and implement effective digital marketing strategies. Successful completion of the programme will help participants grow their career opportunities in this dynamic sector.

What follow-on study opportunities are available?

Graduates may pursue Level 10 (PhD) study opportunities upon successful completion of this programme.

Potential employment opportunities

Graduates of this programme can expect career opportunities in areas such as: Digital Marketing Consulting, eCRM, Social Media Management, User Experience Management, Data Analytics and Brand Management. Digital Marketing opportunities exist in all industries from SMEs to global multinationals and financial services to the arts.

Special features of this programme

Learners will have an opportunity to work on live business projects.



Entry requirements

Although applications are welcome from a broad range of disciplines, ideal candidates will come from a marketing background and/or demonstrate an interest in and aptitude for digital marketing. Candidates should hold a recognised third level Honours Degree (Level 8 – minimum 2nd class Honours) in:

- Marketing or a business discipline
- Computer Science or
- Cognate programmes.

Applicants applying for entry through progression routes other than those listed above will be considered through IT Carlow's Recognition of Prior Learning (RPL) Policy.

Shortlisted applicants may be called for interview.

Master of Arts Interaction Design

	<p>COURSE CODES CWB12 (MA) CWB13 (PGDip)</p>	<p>DURATION 1 YEAR – FULL-TIME</p>	<p>LOCATION CARLOW</p>	<p>HEAD OF DEPARTMENT – HUMANITIES Dr Eileen Doyle-Walsh BA, MLitt, PhD E: eileen.doyle@itcarlow.ie</p>
	<p>What is the programme about?</p> <p>Interaction design focuses on shaping things for people's use and behaviour and includes designing interactive digital products, environments, visual communication systems, and services. Interaction design is the synthesis and imagining of things as they might be, rather than focusing on how things actually are, with a focus on satisfying the needs and desires of the end user. This programme is specifically designed for honours graduates in product and industrial design, multimedia and game design, visual communication design, architecture, engineering and other design related fields. This Masters programme has been developed by Institute of Technology Carlow in consultation with industry and is delivered through the combination of self-directed learning and graduate research within the structured environment of a taught programme.</p> <p>The aim is to nurture and support a unique interdisciplinary approach to research and learning in this area. The programme is centred around the development and delivery of a major project which can be either practice or theory based.</p> <p>What will I be able to do when I finish the programme?</p> <p>This programme will provide graduates with a unique opportunity to gain a</p>	<p>competitive edge prior to embarking on a career in design or related fields.</p> <p>Graduates may also adopt research and advisory roles in relation to new product development and development of the provision of creative services in practice.</p> <p>Potential employment opportunities include:</p> <ul style="list-style-type: none">• Interaction Designer• User Experience Designer/Consultant/Engineer• User Interface Designer• Mobile App Designer/Developer• Design Entrepreneur• Web Designer• Front End/Content Developer• Digital Media Designer• Visual Designer• Communications Designer• Multi-disciplinary Design Studios• Strategic Design Thinkers• Design Manager• Product /Industrial/Service Designer• Design Thinking• Product Designer• Industrial Designer• Service Designer.	<p>What subject areas will I study?</p> <p>Framing User Experience Principles of Interaction Design Prototyping Interactions Design Entrepreneurship Strategic Design Communication Design Design Research Methods Design Project Dissertation</p> <p>NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.</p>	
	<p>What follow-on study opportunities are available?</p> <p>Graduates may pursue Level 10 (PhD) study opportunities upon successful completion of this programme. Postgraduate Diploma in Arts in Interaction Design is an Embedded Exit Award.</p>	<p>Special features of this programme</p> <p>This Masters programme sits within the Department of Humanities at Institute of Technology Carlow which facilitates the culture of design lead research and learning. Our programme facilitates a culture of interdisciplinary learning embedded within the ethos of a studio based educational environment.</p>		

Entry requirements

A Level 8 Honours Degree in Product or Industrial Design, Games Design, Visual Communication Design, or other related design disciplines such as Architecture or Engineering (minimum 2nd class Honours). Candidates with significant experience in the design services sector (as determined by the Institute's recognition of prior learning policy), in addition to an Honours primary degree in another discipline area may also be considered for entry on a case-by-case basis through IT Carlow's RPL system. Applicants applying for entry via routes other than that listed above will be considered on a case-by-case basis through IT Carlow's RPL system.

Higher Diploma Business in Supply Chain Management

Refer to pages 101-103 for full course listings

NFQ LEVEL 8

HEAD OF DEPARTMENT - BUSINESS Dr Martin Meagher BComm, MBA, MA, FCA, PhD E: martin.meagher@itcarlow.ie	LOCATION CARLOW	DURATION 1 YEAR – FULL-TIME 1 YEAR – PART-TIME	COURSE CODES CWB16 (HDip) CWL27 (HDip)
--	-------------------------------	--	--

LIFELONG LEARNING MANAGER

Eoin O'Brien
BA, DBS, CBS, Cert Mgmt, MBA
E: eoin.obrien@itcarlow.ie

What subject areas will I study?

- Purchasing and Supplier Management
- Strategic Management
- Supply Chain Planning and Control
- Global Logistics and Supply Chain Management
- Strategic Procurement
- Elective Subjects***
- Work Based Research Project
- Dissertation

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

This one-year graduate diploma programme has been designed for graduates of business and non-business disciplines in order to equip them with the necessary knowledge and competencies in Supply Chain Management and business. Supply Chain Management is concerned with the management of the flow of goods and information through the value chain, from materials acquisition to final consumption. Put more simply, SCM is about being right: it is about getting the right product, in the right quantity, at the right quality, in the right place at the right time, for the right consumer at the right cost. In achieving all of this, supply chain management takes on many of the functions of a business including: forecasting, inventory management, purchasing management, warehouse management, information technology and transport management. Management professionals in logistics and supply chain management functions also work closely with other areas of the business including human resource management, manufacturing, marketing and finance.

What will I be able to do when I finish this programme?

Graduates of this programme will find employment opportunities in all manufacturing sectors including: electronics; pharmaceuticals and food processing - as buyers and material planners. Many opportunities also exist in logistics and distribution. This work involves using sophisticated computerised planning tools such as MRP/ERP, interacting and negotiating with external suppliers and internal customers and contributing to project management as members of cross-functional teams.

What follow-on study opportunities are available?

This qualification will allow the participant to apply for the MBA or MB, depending on his/her business experience, and continue to develop and extend his/her skills base and knowledge at NFQ Level 9.

Potential employment opportunities

- Supply Chain/Warehouse/Inventory Control Manager
- Purchasing Manager
- Operations Manager
- Production Manager
- Procurement Manager
- Business Development Manager
- Supply Chain/Logistics Consultant.



Entry requirements

Applicants require an NFQ Level 8 Award or equivalent, for entry to this programme. Other applicants will be considered on an individual basis in accordance with the Institute policy on Recognition of Prior Learning (RPL). The department reserves the right to require applicants to attend for interview to determine their suitability for the programme.

Higher Diploma **Business Marketing**

	COURSE CODE CWB14 (HDip)	DURATION 1 YEAR – FULL-TIME	LOCATION CARLOW	HEAD OF DEPARTMENT – SPORT, MEDIA AND MARKETING Myles Kelly BComm, DipCompSc, FCA, MA E: myles.kelly@itcarlow.ie
	<p>What is the programme about?</p> <p>This programme provides students with an advanced knowledge of the principles of marketing. The modules have been designed to equip successful graduates with the up-to-date skills and competencies to enable them to:</p> <ul style="list-style-type: none">• Pursue a career in any marketing oriented environment, in a large multinational corporation or a small-to-medium sized business in Ireland and abroad;• Participate in and manage cross-functional teams with an appreciation and understanding of relationship management, changing consumer behaviour and communication across any organisation;• Identify, analyse and propose innovative solutions to key marketing issues;• Use and develop their critical analytical skills, providing a competitive edge in a rapidly changing marketing sector;• Develop, contribute to and lead out marketing strategies and campaigns for new product innovation;• Apply and develop their digital marketing skills to real world practise.	<p>What will I be able to do when I finish this programme?</p> <p>Marketing is a fundamental element of all organisations and as a result, this programme will help prepare you for job opportunities across all industry sectors - private, public and voluntary.</p> <p>Depending on your undergraduate degree, some examples of potential roles include:</p> <ul style="list-style-type: none">• New Business Development, Client Manager, Customer Service Manager, Customer Insights;• New Product Development Manager/ Technologist;• Brand Executive, Product Executive, Trade Marketing Executive;• Compliance Manager, Business Analyst, Business solutions consultant;• Sales and Marketing Executive, Digital Marketing Executive, Technical Sales Manager.	<p>What subject areas will I study?</p> <p>New Product Innovation Marketing Management International Marketing Consumer Psychology and Insights Market Research Theory and Practice Selling</p> <p><i>Elective Subjects</i></p> <p>Integrated Marketing Communications Digital Marketing Communications</p>	<p>NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.</p>

Entry requirements

- Applicants from a non-business discipline require an NFQ Level 8 Award or equivalent, for entry to this programme.
- Applicants from a business discipline require an NFQ Level 7 Award or equivalent, for entry to this programme.
- Other applicants will be considered on an individual basis in accordance with the Institute policy on Recognition of Prior Learning (RPL).



Higher Diploma Business in Business Management

Refer to pages
101-103 for full
course listings

NFQ LEVEL 8

LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	LOCATION CARLOW	DURATION 1 YEAR – PART-TIME	COURSE CODE CWL26 (HDip)	
--	-------------------------------	---	--	--

What subject areas will I study?

Management Accounting
Corporate Governance and Business Practice
Strategic Human Resource Management
Work based research project
International Business
Strategic Management

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

This one-year graduate Higher Diploma programme is designed for graduates of non-business disciplines in order to equip them with the necessary knowledge and competencies for management in business. It will provide graduates with an in-depth understanding of the contemporary business environment.

The programme will enable graduates to further develop, consolidate and synthesize their knowledge and skills through experience, professional and/or academic education and improve their overall employment prospects.

What will I be able to do when I finish the programme?

This programme will provide candidates with extensive knowledge of the many business disciplines that influence business and strategic decisions, thus enabling them to pursue management roles in their chosen discipline and across an organisation.

What follow-on study opportunities are available?

This programme will give graduates the basis and maturity to proceed to the MBA or MB taught part-time programmes depending on their general business experience.

Exam information

Modules completed in Term 1 will, where applicable be examined in early December 2021. Modules completed in Term 2 will, where applicable, be examined in May 2022.



Entry requirements

Graduates with Level 8 qualifications. Other applicants will be considered on a case-by-case basis through completion of the Recognition of Prior Learning (RPL). IT Carlow reserves the right to require applicants to attend for an interview to determine their suitability for the programme.

Higher Diploma **Business in International Business**

COURSE CODE CWB17 (HDip)	DURATION 1 YEAR – FULL-TIME	LOCATION CARLOW	HEAD OF DEPARTMENT - BUSINESS Dr Martin Meagher BComm, MBA, MA, FCA, PhD E: martin.meagher@itcarlow.ie
------------------------------------	---------------------------------------	---------------------------	--

What is the programme about?

This one-year graduate diploma programme has been designed for graduates of business and non-business disciplines in order to equip them with the necessary knowledge and competencies required in international business. International business is concerned with contemporary issues in business from both a national and international perspective. Learners will have leading knowledge of contemporary theories, concepts and issues concerning international business in today's society. In addition, the modules blend both theory, practice and policy to ensure that the learner will be able to manage, develop and lead organisations in the sector. The programme will also provide learners with critical thinking tools to enable them to succeed in the field of business. It will provide learners with a critical understanding of concepts and approaches to enable individuals and groups to realise their potential.

What will I be able to do when I finish the programme?

Graduates will be equipped to manage and lead teams in multinational organisations. They will also be able to contribute to and develop the strategy of that organisation.

Graduates of this programme will find employment in a variety of settings that promise a wide choice of flexibility and variety. Many graduates of this programme may start their career in the domestic operations of an organisation and then progress to managing and coordinating global operations.

Some examples of potential job opportunities include:

- Banking
- International marketing and sales
- Customer service
- Importing and exporting enterprises.

What follow-on study opportunities are available?

This qualification will allow the participant to apply for the MBA or MB, depending on his/her business experience, and continue to develop and extend his/her skills base and knowledge at Level 9.

What subject areas will I study?

- Strategic Management
International Business
Applied Business Solutions
International Marketing
Business Finance
Elective Subjects
International Economics
Organisational Behaviour
Corporate Governance and Business Practice
Business Information Systems

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

Entry requirements

Applicants require an NFQ 8 or equivalent for entry to this programme.

Other applicants will be considered on an individual basis in accordance with the IT Carlow policy on Recognition of Prior Learning (RPL).



Higher Diploma Business in International Financial Services

Refer to pages
101-103 for full
course listings

NFQ LEVEL 8

LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	LOCATION CARLOW	DURATION 1 YEAR – PART-TIME	COURSE CODE CWL23 (HDip)	
--	-------------------------------	---	--	--

What subject areas will I study?

- Mutual Fund Accounting
- Hedge Fund Accounting
- Legal and Regulatory Aspects of Financial Services
- Project Management and Communications
- Data Analysis and Risk
- Work-based Research Project

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

This Higher Diploma in International Financial Services is designed to provide participants with specific knowledge of fund administration, project management, data analysis and reporting within the financial sector. It will give participants the tools they need to understand the fundamentals of this international industry and the various roles that offer employment within it. This programme is designed to appeal to those who are looking to re-skill or up-skill to gain employment in the International Financial Services Sector. The applied nature of this programme is reflected in the combination of project management and data analysis alongside accounting and administration modules which focus on developing the student's knowledge of the International Financial Services Sector, fund management and all the regulatory requirements nationally, at EU level and at international levels. All participants will improve their knowledge, numeracy skills, IT skills and commercial awareness of the industry.

What will I be able to do when I finish the programme?

On completion of this programme, students will have knowledge and understanding of the international financial services industry. The programme will also develop their intellectual and practical skills via the analysis and evaluation of funds administration, project management, data analytics and compliance.

What follow-on study opportunities are available?

This programme will give graduates the basis and maturity to proceed to the Master of Business or other masters programmes related to the Financial Services Sector, depending on their general business experience.

Exam information

Modules completed in Term 1 will, where applicable, be examined in early December 2021. Modules completed in Term 2 will, where applicable, be examined in May 2022.



Entry requirements

Applicants require an NFQ Level 7 or 8 Award, or equivalent, for entry to this programme. Other applicants will be considered on an individual basis in accordance with the Institute policy on Recognition of Prior Learning (RPL). IT Carlow reserve the right to require applicants to attend for interview to determine their suitability for the programme.

Refer to pages
101-103 for full
course listings

NFQ LEVEL 8

Higher Diploma **Business in Tourism Marketing**

COURSE CODE
CWL24 (HDip)

DURATION
1 YEAR – PART-TIME

LOCATION
CARLOW

LIFELONG LEARNING MANAGER
Eoin O'Brien

BA, DBS, CBS, Cert Mgmt, MBA
E: eoin.obrien@itcarlow.ie

What is the programme about?

This is a one-year Higher Diploma designed for those who would like to change career, or who may already be employed in the tourism industry. As the economy continues to recover, more graduates will be required to work in the tourism sector. This programme addresses the need for graduates with knowledge in the area of culture, tourism operations, marketing (including e-marketing) and general business.

What will I be able to do when I finish the programme?

On completion of the programme, students should be able to:

- Demonstrate in-depth knowledge, skills and competencies in strategic planning and sustainable development of tourism management (business and services) in the context of location, resources and markets.

- Analyse frameworks to provide both theory and practical tools of information in Business and Tourism Marketing.
- Understand the linkage between competitive dynamics, macro and micro economics and the economic benefit to the tourism industry.

What follow-on study opportunities are available?

This programme will give graduates the basis and maturity to proceed to the Master of Business or, the MSc in Digital Marketing taught part-time programmes, depending on their general business experience.

Potential employment opportunities

- Travel Agent
- Customer Service Assistant/Manager
- Supervisor/Team manager
- Tour Manager
- Tourist Guide
- Tourist Information Centre Assistant
- Other tourism related commercial operations.

What subject areas will I study?

Marketing and Brand Communications
Online Marketing Strategy and Practice
Management and Financial Planning
Work Based Research Project
Tourism Operations
Strategic Tourism Marketing

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

Entry requirements

Applicants require an NFQ Level 7 or 8 Major Award in business or a level 8 Major Award in a non-business area for entry to this programme. Other applicants will be considered on an individual basis in accordance with the Institute policy on Recognition of Prior Learning (RPL). IT Carlow reserve the right to require applicants to attend for interview to determine their suitability for the programme.



Higher Diploma in Arts Digital Media Design

Refer to pages
101-103 for full
course listings

NFQ LEVEL 8

LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	LOCATION CARLOW	DURATION 1 YEAR – PART-TIME	COURSE CODE CWL30 (HDip)	
--	-------------------------------	---	--	--

What subject areas will I study?

Entrepreneurship
Creative Studio
Digital Media Design
Web Design Methods
Marketing Management

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

Digital media takes its roots from graphic design, where messages are translated into a captivating experience, using an array of communication forms. Students will create projects in graphic design (typography, illustration, branding, packaging and advertising) and digital media (websites, animation and interactive design).

What will I be able to do when I finish this programme?

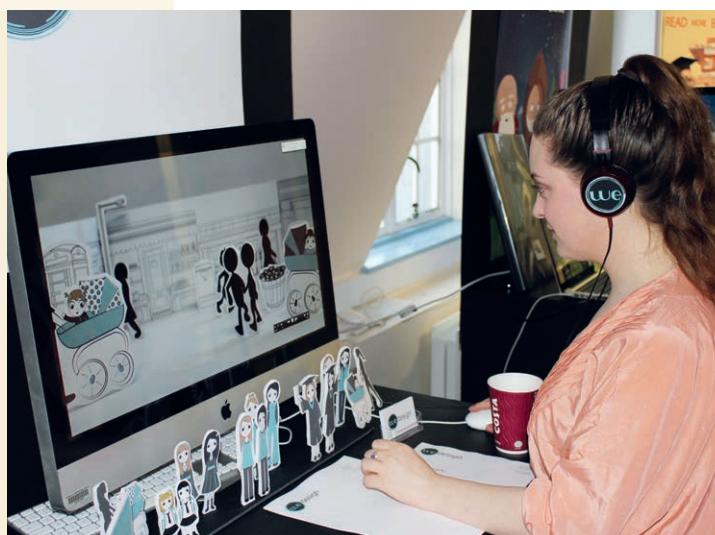
The main aim of this programme is to facilitate the transformation of the novice student into a creative practitioner in digital media design. The programme provides an integrated learning environment (studio) that encourages creativity, innovation, self-assessment and discussion. Learning and assessment is through "real world" practices, which involve setting project briefs in a project/problem-based learning environment.

Potential employment opportunities

Students will develop a portfolio of works to include designs in digital media and graphic design. Through a transformative process, students will become creative practitioners and developing skills in: creative problem solving, design principles and practices, project management, communication and collaboration, technical design skills, marketing and entrepreneurship. They will experiment and explore new ideas and concepts and integrate theories and methodologies to develop design solutions. A good designer should display personal qualities of ambition, curiosity, energy, enthusiasm, imagination, initiative and talent.

Career opportunities include:

- Digital Media Designer
- Graphic Designer
- UX/UI Designer
- Web Designer
- Animation
- Interactive and Multi-media Design
- Mobile Media Technologies.



Entry requirements

Applicants must currently hold a Level 8 degree. Applications not covered under the above criteria will be considered on an individual basis, through submission of a portfolio of prior work or by an RPL procedure in accordance with the IT Carlow Recognition of Prior Learning Policy. All applicants will be considered on a case-by-case basis. IT Carlow reserves the right to require applicants to attend for interview to determine their suitability for the programme.

Higher Diploma in Science **Digital Marketing with Analytics**

	COURSE CODE CWL35 (HDip)	DURATION 1 YEAR – PART-TIME	LOCATION CARLOW	LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	
	What is the programme about? The lines are blurring between Marketing and IT. The European Commission has estimated that there are 900,000 unfilled digital jobs across Europe. Digital marketing is one of the few sectors where demand for graduates is exceeding supply. This programme is ideally positioned to develop digitally focused and adaptable Marketing graduates, who will flourish in the emerging data driven, IT focused marketing function. Digital insights and analytics have come to the forefront of all Marketing strategy and are integral to day-to-day Marketing operations. This programme provides an opportunity to those working in marketing from other discipline backgrounds to gain a qualification in marketing allowing them progress in their marketing career.			What subject areas will I study? Digital Analytics eCommerce Content Writing Data Reporting for Digital Marketing Search Engine Optimisation and AdWords Digital Marketing Strategy B2B Marketing Marketing Management Integrated Marketing Communications Digital Marketing Strategy	
	<ul style="list-style-type: none">Display mastery of specialised digital era marketing skills, tools and technologies and the research skills required for the creation and delivery of digital marketing strategies.Exercise appropriate judgment in the research, design, development and implementation of digital marketing strategies to a professional standard, cognisant of emerging technologies and marketing practices.Use digital marketing and data analysis knowledge and skills to create and defend customer centred marketing solutions in a broad range of variable and unfamiliar marketing contexts.Display adaptability, creativity, ingenuity, and professionalism to working, learning and responding to a dynamic environment. Self-evaluate and reflect on learning and practice.			NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.	
	What follow-on study opportunities are available? This programme will give graduates the basis and maturity to proceed to the Master of Business or, the MSc in Digital Marketing taught part-time programmes, depending on their general business experience.			Potential employment opportunities <ul style="list-style-type: none">Digital Marketing ExecutiveOnline Marketing ExecutiveSocial Content ManagerSearch Marketing ConsultantDigital Analytics ManagerDigital Project ManagerFront End Development LeadDigital Media SeniorDigital Marketing Account ExecutivePPC Account Executive.	

Entry requirements

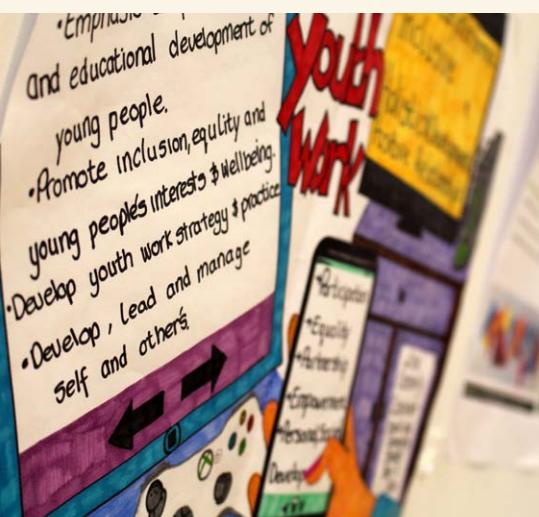
Applicants require an NFQ Level 7 or 8 Major Award in business or a level 8 Major Award in a non-business area for entry to this programme. Other applicants will be considered on an individual basis in accordance with the Institute policy on Recognition of Prior Learning (RPL). IT Carlow reserve the right to require applicants to attend for interview to determine their suitability for the programme. All applicants will be considered on a case-by-case basis. Lifelong Learning reserves the right to require applicants to attend for an interview to determine their suitability for the programme.



Master of Arts Child, Youth and Family Studies

Refer to pages
101-103 for full
course listings

NFQ LEVEL 9

HEAD OF DEPARTMENT – HUMANITIES Dr Eileen Doyle-Walsh BA, MLitt, PhD E: eileen.doyle@itcarlow.ie	LOCATION CARLOW	DURATION 1 YEAR – FULL-TIME	COURSE CODES CWB03 (MA) CWB04 (PGDip)		
		2 YEARS – PART-TIME	CWL09 (MA) CWL10 (PGDip)		
LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie		What is the programme about?			
		<p>The Master of Arts in Child, Youth and Family Studies provides learners with a range of critical and analytical tools to enable them to manage and lead services that develop the potential of children, youth and families and envision new possibilities for better service provision in the sector. The programme is designed to provide the knowledge, skills and competencies required by the sector and to provide future leaders of Child, Youth and Family services in Ireland and abroad.</p>			
		<p>The programme aims to educate learners to high levels of contemporary and comparative theoretical awareness in fields central to services provision (transitions across the life span, cultural diversity, youth and families) and to create an atmosphere of rigorous academic enquiry and writing.</p>			
		<p>Learners will develop a deep and integrated knowledge of contemporary child, youth and family theory and practice, and the sector within which child, youth and family services operate.</p>			
		<p>What will I be able to do when I finish the programme?</p>			
		<p>Graduates may also adopt research and advisory roles in relation to the development and planning of such services. Graduates will be in a position to critically evaluate existing services and programmes and to visualise future possibilities for better service provision.</p>			
		<p>The programme will meet the needs of professionals who are already working in the area of social care/work, early education, youth and family work and related areas. It will also serve to provide new graduates with a unique opportunity to gain a competitive edge</p>			
		<p>Entry requirements</p> <p>Programme participants are required to hold a Level 8 degree (with a minimum of 2nd Class Honours) in the following areas:</p> <ul style="list-style-type: none"> • Early Childhood Education and Care • Applied Social Studies • Social and Community Studies • Youth and Community <p>or a primary Level 8 degree in Social Sciences or cognate area (minimum 2nd class honours).</p> <p>Candidates with significant experience in the social sciences (as determined by IT Carlow's Recognised Prior Learning (RPL) policy), in addition to an honours primary degree in another discipline area may also be considered for entry.</p> <p>Applicants applying for entry via routes other than those listed above will be considered on a case-by-case basis and in accordance with IT Carlow's Recognised Prior Learning (RPL) policy.</p>			

Master of Arts Teaching and Learning

	COURSE CODES CWL01 (MA) CWL02 (PGDip)	DURATION 2 YEARS – PART-TIME 2 YEARS – PART-TIME	LOCATION CARLOW	HEAD OF CENTRE FOR TEACHING AND LEARNING Dr Gina Noonan BA, MA, MEd, EdD E: gina.noonan@itcarlow.ie
<p>What is the programme about?</p> <p>The Master of Arts in Teaching and Learning aims to provide participants with the skills, knowledge and competencies to design, teach, assess and evaluate educational programmes and to enable them to become professional, reflective practitioners. It will also equip graduates for roles in academic leadership and/or research supervision.</p> <p>The embedded Postgraduate Diploma comprises five mandatory modules and one elective module.</p> <p>What will I be able to do when I finish this programme?</p> <p>On completion of this programme, students should be able to:</p> <ul style="list-style-type: none">• Critically analyse current theories and research in teaching, learning and assessment practices and policies in higher education;• Assess, select and evaluate the use of varied teaching and assessment strategies, including the integration of digital technologies to ensure effective teaching practices and enhance student engagement;• Synthesise pedagogical research with discipline-based expertise to enhance models of higher education practice and the design of education programmes for diverse learners;• Apply the reflective practitioner model in order to identify and promote improvements to own practice, whilst demonstrating		<p>professionalism and high ethical standards;</p> <ul style="list-style-type: none">• Demonstrate initiative and leadership skills in working with peers and other educators and the wider community in designing curricula, leading programmes and/or conducting research supervision in diverse educational settings;• Evaluate the wider social, political and economic environment within which the teaching professional operates;• Demonstrate reflectivity and creativity in the interpretation and application of concepts, methods and approaches to teaching, learning and assessment;• Develop knowledge and expertise in the use of appropriate research methods in higher education and use these to research practice and make a contribution to knowledge;• Design and execute an independent, critical, and reflective professional investigation which examines the relationship between theory and practice, adopting the most appropriate research methods to address and analyse the identified issues.		
<p>What subject areas will I study?</p> <p>Teaching and Learning 1 Teaching and Learning 2 Assessment and Feedback Curriculum Design Technology-Enhanced Teaching and Learning Education Research Methods Masters Research Project Elective Subjects Academic Leadership Research Supervision</p> <p>NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.</p>			<p>What follow-on study opportunities are available?</p> <p>Graduates of the programme may progress to a PhD programme of study in the discipline areas, in Ireland or abroad and may also be eligible to progress to a professional doctorate in the field of teaching and learning. Individual modules from the programme are now offered as stand-alone modules and are accredited as minor awards at Level 9. These modules are as follows:</p> <ul style="list-style-type: none">• Certificate in Teaching and Learning 1 (Foundation)• Certificate in Teaching and Learning 2 (Advanced)• Certificate in Technology-Enhanced Teaching and Learning• Certificate in Research Supervision.• Certificate in Assessment and Feedback• Certificate in Curriculum Design• Certificate in Academic Leadership.	

Entry requirements

Entry requirements are a Level 8 degree, minimum of Second Class Honours, Grade 2 or equivalent. IT Carlow operates a Recognition of Prior Experiential Learning (RPL) scheme whereby applicants may be considered, based on relevant work and other experience, for exemptions from programme modules and advanced entry. As critical reflection on teaching and learning practices is an integral part of this programme, applicants should be currently involved in (or envisage being involved in) an active teaching role. All applicants will be considered on a case by case basis. IT Carlow reserves the right to require applicants to attend for an interview to determine their suitability for the programme.



Leadership in Early Years Education and Care

HEAD OF DEPARTMENT – HUMANITIES Dr Eileen Doyle-Walsh BA, MLitt, PhD E: eileen.doyle@itcarlow.ie	LOCATION CARLOW	DURATION 1 YEAR – FULL-TIME 2 YEARS – PART-TIME	COURSE CODES CWB09 (MA) CWB10 (PGDip) CWL17 (MA) CWL18 (PGDip)
--	---------------------------	---	--

LIFELONG LEARNING MANAGER

Eoin O'Brien
BA, DBS, CBS, Cert Mgmt, MBA
E: eoin.obrien@itcarlow.ie

What subject areas will I study?

- Contemporary Issues in Early Years Policy, Theory and Practice
- Leading Quality in Early Years Education and Care
- Leadership, Strategy and Governance
- Research Methods and Dissertation
- Transformative Children's Rights Education
- Educational Psychology
- Early Years Entrepreneurship and Innovation

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

Right from the Start- Report of the Expert Advisory Group on the Early Years Strategy, September 2013.

Department of Children and Youth Affairs

This report looks at the growing requirements of a rapidly expanding sector in a population with "over 480,000 children aged 0-6, representing 11% of the population" which is set to increase by between 17-20% by 2021 and the importance of having a policy for the youngest members of society. The report notes that "only 12% of those working in early childhood care and education services in Ireland have Degree-level qualifications (Pobal, 2013)", while the CoRe report has set out an EU benchmark of at least 60% of those working in this area who "should be graduates", "including equally those working with under-3s and those working with over-3s." A competent quality based systems calls for competent practitioners, which requires "a qualified workforce at all levels, which includes trainers, managers and inspectors."

What is the programme about?

Early Years Education and Care is a rapidly growing area in Ireland. This programme has been designed to facilitate and prepare students and current practitioners or those with an interest in early childhood education for leadership and management roles in the operation of early childhood education services and related public policy. This Masters programme will develop students' ability to both analyse, manage and creatively respond to critical issues and changes in early childhood care policy and service implementation, all the time being cognisant of the best interests of the child.

What will I be able to do when I finish this programme?

Graduates of this programme will be able to:

- Demonstrate an in-depth knowledge of the underlying theories and key concepts with a focus on leadership and critical assessment skills within an Irish and International context;
- Analyse the current theories, concepts, challenges and research areas with an ability to solve complex problems through a variety of reflective and participatory work;
- Exhibit critical awareness of contemporary issues and challenges relating to the role and effect of early years education on the child, the family and society;
- Apply the theory and practice of leadership roles in supporting quality;
- Engage in scholarly debate at an academic, policy and practice based

level on a range of early year's education and leadership issues;

- Develop, maintain and build on professional relationships fostered throughout the programme with practical skills and tools to reflect and critically self-evaluate;
- Gather, assimilate, synthesise and analyse information on a variety of levels;
- Critically reflect on how leadership practice in early year's education connects to and interacts with wider social issues in Ireland and beyond.

What follow-on study opportunities are available?

Graduates of the programme may progress to a PhD programme of study in the discipline areas, in Ireland or abroad. Graduates of the programme may also be eligible to progress to a professional doctorate in the field of teaching and learning in both Irish and international Institutions.

Potential employment opportunities

This is an ideal postgraduate programme for students or current practitioners within the early childhood education sector who are interested in becoming an administrator, director or manager of early childhood education programs. It is also suitable for those interested in advisory, mentoring and inspection roles within the sector.

Entry requirements

Entry requirements are a Level 8 degree, with a minimum of Second Class Honours, Grade 2 or equivalent in the following areas:

- Early Childhood Education and Care
- Applied Social Studies
- Social and Community Studies
- Youth and Community Work
- Social Sciences or cognate area

Candidates with significant experience in the social sciences (as determined by IT Carlow's Recognised Prior Learning (RPL) policy), in addition to an honours primary degree in another discipline area may also be considered for entry.

Applicants applying for entry via routes other than those listed above will be considered on a case-by-case basis and in accordance with IT Carlow's Recognised Prior Learning (RPL) policy.



Refer to pages
101-103 for full
course listings

NFQ LEVEL 8

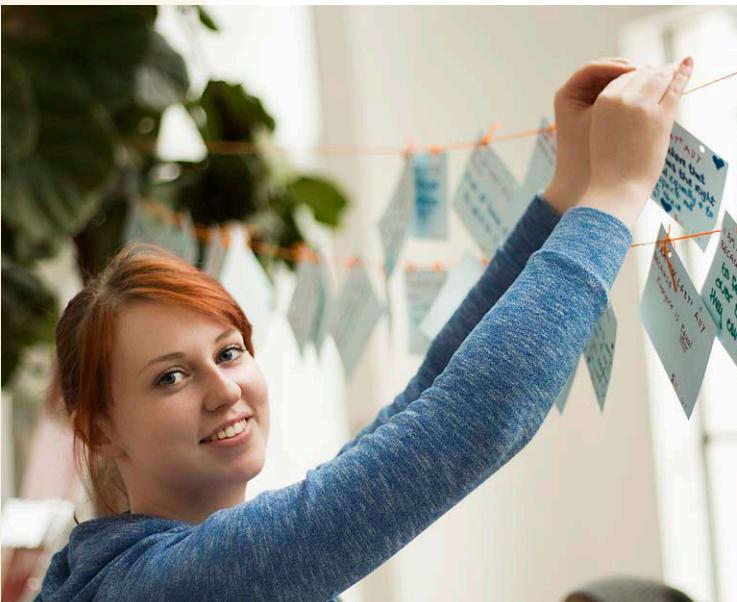
Higher Diploma in Arts Early Childhood Education and Care

	COURSE CODE CWL28 (HDip)	DURATION 1 YEAR – PART-TIME	LOCATION CARLOW	LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie		
	What is the programme about? This programme provides an opportunity for students to study for a one-year Higher Diploma in Early Childhood Education and Care. This programme is being offered as a direct response to the introduction of the free school year in Early Childhood Education and Care (ECCE scheme) by the Department of Children and Youth Affairs and to address the upskilling needs of the sector. This programme is designed for graduates who are working in the Early Childcare sector and who do not hold the necessary qualification for the ECCE scheme. All successful applicants will have to complete 500 hours of Supervised Professional Practice as part of this Higher Diploma.	What will I be able to do when I finish the programme? On completion of this programme, students will be equipped with sufficient knowledge and skills in early childhood education and care to enable them to make a professional contribution to early childhood education and care, nationally and internationally.	What subject areas will I study? <hr/> <ul style="list-style-type: none">Pedagogy and CurriculumOutdoor and After SchoolEducation and CareChildren's Literature in Early ChildhoodLiteracy, Numeracy, Science and Technology in Early Childhood Education and CareLeading Contemporary and Quality PracticeVisual Arts in Early ChildhoodWork based learning for ECECPhilosophy in Early Childhood Education			
	Special Features of this programme All learners must complete 500 hours of supervised professional practice in the Early Childhood Education and Care sector as part of this programme.		NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.			
	Exam information Modules completed in Term 1 will, where applicable, be examined in early December 2021. Modules completed in Term 2 will, where applicable, be examined in May 2022.					
Entry requirements						
<p>To be eligible for consideration for this Higher Diploma in Early Childhood Education and Care, an applicant must hold a minimum Level 7 relevant major qualification and be working in the early years' sector. Garda vetting is required for this programme. Offers are conditional and may be withdrawn if applicants do not meet the Garda Vetting requirements. All applicants will be considered on a case-by-case basis. The Faculty reserves the right to require applicants to attend for an interview to determine their suitability for the programme.</p>						

Higher Diploma in Arts Applied Social Studies (Professional Social Care)

Refer to pages 101-103 for full course listings

NFQ LEVEL 8

LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	LOCATION CARLOW	DURATION 1 YEAR – PART-TIME	COURSE CODE CWL29 (HDip)	
What subject areas will I study?				
<p>Introduction to Social Care</p> <p>Protection of Children and Vulnerable Persons</p> <p>Disability Services</p> <p>Ageing Studies</p> <p>Alternative to Home Care</p> <p>Children and Families</p> <p>Creative Skills 2</p> <p>Supervised Practice - Work based learning</p>				
<p>NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.</p>				
<p>What is the programme about?</p> <p>This programme provides an opportunity for students to study for a one-year Higher Diploma in Applied Social Studies. The programme allows people to qualify as Social Care Workers. It is designed for graduates of non-Social Care disciplines who are working or wish to work in the Social Care sector. Successful applicants must undertake 800 hours of supervised professional practice as part of this Higher Diploma.</p>				
<p>Special Features of this programme</p> <p>Learners on this programme must complete 800 hours of Supervised Professional Practise in the Social Care sector.</p>				
<p>Exam information</p> <p>Modules completed in Term 1 will, where applicable, be examined in early December 2021. Modules completed in Term 2 will, where applicable, be examined in May 2022.</p>				
<p>What will I be able to do when I finish the programme?</p> <p>On completion of this programme, students should be equipped with sufficient knowledge and skills in Applied Social Studies to enable them to make a professional contribution to social care nationally and internationally.</p>				
 <p>Entry requirements</p> <p>Applicants should be working in Social Care and should note that when the CORU register opens in October 2023, graduates of this programme will be applying under grandparenting and must be able to demonstrate that they have worked for at least 2 of the previous 5 years in Social Care to that point.</p> <p>Applicants must hold a minimum Level 8 qualification in a non-social care area. Garda vetting is required for this programme. Offers are conditional and may be withdrawn if applicants do not meet the Garda Vetting requirements. All applicants will be considered on a case-by-case basis. IT Carlow reserves the right to require applicants to attend for an interview to determine their suitability for the programme.</p>				

Master of Science Information Technology Management

	COURSE CODES CWS01 (MSc) CWS02 (PGDip)	DURATION 1 YEAR – FULL-TIME	LOCATION CARLOW	LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	
	What is the programme about? This exciting Masters programme in Information Technology Management will provide students with a comprehensive skillset to fulfil and succeed in a variety of roles in the field of IT Management. Drawing on best practise from Ireland and abroad, the programme is designed to meet current industry needs and is aimed at developing academic knowledge and practical skills in areas such as: <ul style="list-style-type: none">• IT management• Leadership strategies and techniques• IT related project management and tools• Operational and resource management of data and information systems• Data security.	the setting of the business agenda nationally and internationally. Graduates who identify business spin-off opportunities from the programme will have access to follow through on opportunities through the Institute of Technology Carlow Innovation Centre.			
	Progression routes from this programme Graduates may pursue NFQ Level 10 (PhD) study opportunities on successful completion of this programme.	Postgraduate Diploma The postgraduate Diploma in Science in Information Technology Management is an Embedded Exit Award. Students who complete 60 credits of the programme will be eligible for this exit award, should they opt to leave the programme at this stage.			
	What will be able to do when I finish this programme? The programme provides graduates with the necessary skills to fulfill a range of roles in IT Management. Graduates will also understand how IT Managers are perceived by business, demonstrate an understanding of business and be able to support	Potential employment opportunities Graduates of this programmes are prepared for roles in: <ul style="list-style-type: none">• IT Management• IT Project Management• Management Analyst/Information Systems Management• Chief Technology Officer/Chief Information Officer.			
	Special features of the programme Students on this programme have exclusive use of the UNUM Software Development Centre. This is a new state-of-the-art centre that provides the students with a real-world working environment using the latest technology.				

Entry requirements

The MSc and Postgraduate Diploma in Science (Embedded Exit Award) are designed for graduates of the Bachelor of Science in Computing Level 8 or equivalent programmes (minimum 2nd class honours) or the Bachelor of Engineering in Electronic Engineering Level 8 or equivalent (minimum 2nd class honours). Candidates with significant professional experience in the computing field (as determined by RPL), in addition to an honours primary degree in another discipline area, may also be considered for entry. Applicants who do not meet the above standard entry requirements will also be considered if they have an undergraduate degree (at Level 7 or Level 8) and a minimum of 5 years verifiable relevant industrial experience. Applicants who do not have a primary degree will only be considered with a minimum of 10 years verifiable relevant industrial experience. Applicants applying for entry via routes other than those listed above will be considered on a case-by-case basis. The department reserves the right to require applicants to attend for an interview to determine their suitability for the programme.



Master of Science Data Science

Refer to pages
101-103 for full
course listings

NFQ LEVEL 9

HEAD OF DEPARTMENT OF COMPUTING
Nigel Whyte
BSc, MSc
E: nigel.whyte@itcarlow.ie

LOCATION
CARLOW

DURATION
1 YEAR – FULL-TIME

COURSE CODES
CWS07 (MSc)
CWS09 (PGDip)

What subject areas will I study?

Programming for Data Scientists
Data and Data Storage Technology
Statistics for Data Science
Research Methods
Infrastructure for Big Data
Data Analytics and Algorithms
Data Visualisation and Insight
Project/Dissertation

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

Assessing the Demand for Big Data and Analytics Skills, 2013-2020, Report by Forfas & Expert Group on Future Skills Needs, 2014

'Currently, North America and Europe have the largest share of new data stored globally. However, one of the crucial constraints with the exponential growth of big data is the challenge in finding and attracting the talent needed. Previously cited analysis suggests that there will be a global shortage of the big data and analytical skills needed to take advantage of potential growth. With a forecasted shortfall of 140,000 to 190,000 people with deep-analytical skills and a further 1.5 million data-savvy managers and analysts by 2018 in the US alone, it is seen that the 'race' for data analytics talent is on.'

What is the programme about?

The MSc in Data Science NFQ Level 9 programme is designed to meet current industry needs and provides students with a thorough theoretical and practical grounding in the analysis and utilisation of large data sets, together with experience in conducting data science development projects, thereby preparing graduates for positions of responsibility in the Big Data and IT industries.

As well as studying a range of core taught modules, learners will undertake a significant research and/or programming project to further enhance their skillset from the creation of a project proposal to the delivery and deployment of a significant data science project.

This innovative programme will build on participants' professional and personal skills in areas such as presentation, communication and soft skills as well as data science development, integration and critical thinking around the design, implementation and deployment of data science solutions and systems in industry.

What will I be able to do when I finish this programme?

The aim of this programme is to provide learners with an understanding and ability to critically evaluate and utilise data analytics and the associated processes, systems, algorithms, technologies and insights garnered, ethically, in appropriate contexts. The programme also focuses on current research in the field and enables participants to review and critically assess this research.

What follow-on study opportunities are available?

Successful graduates from this programme may progress to undertake specific data science research programmes at level 9 or level 10 within the gameCORE research centre at Institute of Technology Carlow. A number of the development team for this programme are also attached to gameCORE and are engaged in data focused research and research supervision.

Graduates will have progression opportunities to other NFQ level 9 and Level 10 programmes. Students who successfully complete the necessary 60 credits of the programme will be eligible for the Postgraduate Diploma in Science (Level 9) should they opt to leave the programme (Embedded Exit Award).

Potential employment opportunities

Data scientists who have successfully completed this programme are equipped to work in ICT, finance, business, insurance, marketing and retail, pharmaceutical, biotechnology, telecommunication, media, sports and other sectors. The programme delivers rounded graduates for technical development and/or data science management positions in the previously mentioned sectors.

Entry requirements

Applicants must have obtained a second class honours level 8 primary degree (or equivalent) in computer science or mathematical sciences or hold a degree with a strong numerate content (e.g. engineering, finance, physics, biosciences or economics). Applicants who do not meet the above standard entry requirements will also be considered if they have an undergraduate degree (at Level 7 or Level 8) and a minimum of 5 years verifiable relevant industrial experience. Applicants who do not have a primary degree will only be considered with a minimum of 10 years verifiable relevant industrial experience.



Master of Science Strength and Conditioning

	COURSE CODES CWS05 (MSc) CWS06 (PGDip)	DURATION 1 YEAR – FULL-TIME	LOCATION CARLOW	HEAD OF DEPARTMENT – SCIENCE AND HEALTH Dr Paula Rankin BA, MSc, PgDip, PhD E: paula.rankin@itcarlow.ie
	CWS30 (MSc) CWS31 (PGDip)	2 YEARS – PART-TIME		

What is the programme about?

The Master of Science in Strength and Conditioning has been designed to meet the growing demand for highly skilled, qualified strength and conditioning practitioners.

The aim of the programme is to provide an intellectually challenging, applied postgraduate programme of study that will prepare graduates with advanced knowledge, understanding and practical coaching skills in Strength and Conditioning. This will enable them to work with elite athletes, recreational and specialist population groups.

Course Delivery

The part-time offering is delivered one day per week over two academic years. Semester two of year two will comprise a supervised research dissertation. The research topic may be work-place based.

The full-time programme is delivered on the basis of two full contact days per week over a one year period.

What will I be able to do when I finish this programme?

Graduates of the programme will be eligible to apply for membership to the Irish Institute of Sport (IIS), the United Kingdom Strength and Conditioning Association (UKSCA) and the National Strength and Conditioning Association

(NSCA) based in the United States of America. It is anticipated that students will apply for these independent professional accreditations and will be suitably prepared to meet the stringent competencies of each. In addition, programme graduates will have developed and honed the advanced skills required of an applied strength and conditioning practitioner and they can implement these skills in their respective fields.

Postgraduate Diploma

The Postgraduate Diploma in Science in Strength and Conditioning is an Embedded Exit Award.

Special features of this programme

Guest lectures

The programme will be delivered by staff who all have significant professional practice experience working with athletes and players at all levels, up to international standard.

Alongside the wealth of on-site knowledge, guest lectures will be delivered by international experts in the field.

Facilities

On-site strength and conditioning resources include a dedicated state-of-the-art performance facility, comprising Eleiko equipment, a 30-metre indoor sprint track, sports halls, 4G pitches and athletics track. The Department of Science and Health is equipped with physiology and biomechanics laboratories, each with a comprehensive range of performance evaluation equipment.

What subject areas will I study?

Strength and Conditioning Research Dissertation

Advanced Resistance Training

Explosive Conditioning

Metabolic Conditioning

Periodisation for Strength and Conditioning

Sports Nutrition

Higher Performance Sports Testing

Research Methods

Elective Subjects

Strength and Conditioning for the Older Adult

Injury Rehab and Reconditioning

Paediatric Strength and Conditioning

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.



Entry requirements

A Level 8 degree with a minimum Second Class Honours Grade 2, in a relevant field of study. Applicants applying for entry via routes other than those listed above will be considered on a case-by-case basis and in accordance with IT Carlow's Recognised Prior Learning (RPL) policy.

For more information on this programme and on how to apply, go to the Study section of the IT Carlow website: www.itcarlow.ie.

Master of Science Sports Performance Analysis

Refer to pages
101-103 for full
course listings

NFQ LEVEL 9

**HEAD OF DEPARTMENT – SPORT,
MEDIA AND MARKETING**
Myles Kelly
BComm, DipCompSc, FCA, MA
E: myles.kelly@itcarlow.ie

LOCATION
CARLOW

DURATION
1 YEAR – FULL-TIME

COURSE CODES
CWB05 (MSc)
CWB06 (PGDip)

2 YEARS – PART-TIME

CWB30 (MSc)
CWB31 (PGDip)

What subject areas will I study?

- Sports Analytics and Insights
- Experiential Learning
- SPA Theory to Practice
- Technology in Sports Performance Analysis
- Performance Analysis and the Coaching Environment
- Biomechanics and Movement Analysis of Sport
- Research Methods Dissertation

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is Performance Analysis?

Performance Analysis provides the coach and athlete with objective information that helps them understand performance, and improve the coaching process by providing statistical and video information on athlete performance. This process is underpinned by a systematic observation process resulting in valid, reliable and detailed information.

What is the programme about?

This innovative MSc (NFQ Level 9, 90 Credit) programme will prepare graduates for future opportunities in performance analysis by offering a blend of theory and practice, ensuring practical knowledge underpinned by a theoretical foundation. The programme aims to provide graduates with the necessary academic, practical and research-based skills to become an effective performance analysis practitioner and feed into and drive the sports performance analysis demand in Ireland and internationally.

Potential employment opportunities

This programme is highly vocational and practical and is carefully aligned to industry demands, yet underpinned by solid theoretical foundations. The programme will be beneficial to those wishing to seek future opportunities in performance analysis, those currently employed within a club or organisation with a performance analysis role, and coaches who want to enhance their knowledge and skill set.

Students also have access to our innovative Sports Performance Analysis Lab at IT Carlow. They will have the opportunity to learn how to use and apply the latest performance analysis software to their practice (Sportscode Elite, NacSport, Dartfish and Quintic).

Postgraduate Diploma

The Postgraduate Diploma in Science in Sports Performance Analysis is an Embedded Exit Award.

Special Features of the programme

Learners undertake an 8-month experiential learning module. They also work with a sports team or teams during the year/season. This module provides the student with the opportunity to apply the knowledge and skills gained in their programme of study, in live sports performance analysis contexts and to facilitate the student in developing the practical competencies, soft skills and communications skills necessary to function as an effective sports performance analyst. This module runs parallel with the learner's studies. Students have worked with a range of sports teams at differing levels including: underage provincial rugby, senior and underage international basketball teams, senior club teams in Gaelic football, county senior hurling teams, club hockey teams and First Division soccer teams.



Entry requirements

Level 8 Degree (minimum 2nd class Honours) in:

- BA Sports Management and Coaching
- BSC in Sport Science
- or
- cognate qualifications.

Applicants applying for entry via routes other than those listed above will be considered on a case-by-case basis and in accordance with IT Carlow's Recognised Prior Learning (RPL) policy.

Master of Science Medical Device Regulatory Affairs

COURSE CODES CWL34 (MSc)	DURATION 1 YEAR – FULL-TIME	LOCATION CARLOW	LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie
CWL13 (MSc) CWL14 (PGDip)	2 YEARS – PART-TIME		

What is the programme about?

This programme presents a broad view of the regulatory affairs role and provides a detailed insight into current and proposed EU legislation. It provides students with an advanced theoretical understanding of the processes and practices central to medical device regulatory affairs.

What will I be able to do when I finish this programme?

This MSc will allow students to develop a set of transferable skills that will directly meet the requirements of future employers including information technology, written and verbal communication skills, team working, independent research skills, data analysis and critical thinking.

What follow-on study opportunities are available?

Opportunities for graduates from this programme include progression to Level 10 (PhD) programmes in related fields of study.

Potential employment opportunities

This MSc provides graduates with an advanced theoretical understanding of the processes and practices central to medical device regulatory affairs. Graduates can move into regulation roles and/or be promoted within their organisation.

Ireland is one of the leading global medical devices industry centres. There is a very strong multinational presence in the sector with many of the top medical devices and related global companies basing in Ireland. The medical devices sector also links in strongly with the ICT and engineering base, for example as key partners in delivering healthcare solutions (Nipro, HP, IBM, Analog and Intel). In its 2013 report, the Expert Group on Future Skills Needs (EGFSN, 2013) reported on requirements of the Manufacturing sector to 2020, in which they predict employment to continue to increase by 43,000 by 2020. The report included the Medical Devices sector as one of the subsectors driving this demand. The Irish medical devices Association (IMDA) represents over 170 organisations in Ireland and works with government and policy makers nationally and internationally to drive economic growth in the sector. According to the IMDA, there is now a shift in consumer technology companies making inroads into medicine and Ireland is uniquely placed to harness and leverage the opportunity between these industries.

According to a medical devices regulatory affairs manager consulted as part of the development of the proposed programme, *'all major medical device multinational companies now have sites in Ireland and there is a major need for graduates to support the sector who have an expertise in regulatory affairs'.*

Exit award

Students who successfully complete the relevant 60 credits of the programme will be eligible for the Postgraduate Diploma in Medical Device Regulatory Affairs (Level 9) should they opt to leave the programme (Embedded Exit Award).

Entry requirements

Applicants require a second class honours degree or higher, or an equivalent in a science, business or management subject. Other applicants will be considered on an individual basis in accordance with the Institute policy on Recognition of Prior Learning (RPL). IT Carlow reserves the right to require applicants to attend for an interview to determine their suitability for the programme.

What subject areas will I study?

- Regulatory Affairs Quality Management and Strategy
- Research Methods and Technical Report Writing
- Medical Device Technologies: Design, Development and Testing
- Medical Technology Regulatory Affairs
- Product Programme Management, Vigilance, Surveillance and Risk Management
- Clinical Evaluation of Medical Device Technologies

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.



Master of Science Pharmaceutical Regulatory Affairs

Refer to pages
101-103 for full
course listings

NFQ LEVEL 9

LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	LOCATION CARLOW	DURATION 1 YEAR – FULL-TIME	COURSE CODES CWS03 (MSc) CWS04 (PGDip)	
		2 YEARS – PART-TIME	CWL11 (MSc) CWL12 (PGDip)	
What subjects will I study?		What is the programme about? <p>The programme enables existing regulatory affairs personnel in the pharmaceutical regulatory industry to understand all current diagnostic and medical device regulations and develop the necessary skills to work successfully in the dynamic world of regulatory affairs.</p> What will I be able to do when I finish this programme? <p>On completion of this programme, students should be able to:</p> <ul style="list-style-type: none"> • Devise and implement global strategies for drug, biologic, and device development and evaluation; • Apply principles of basic and applied pharmaceutical sciences in drug and biologics discovery and development. What follow-on study opportunities are available? <p>Opportunities for graduates from this programme include progression to Level 10 (PhD) programmes in related fields of study.</p> Potential employment opportunities <p>According to a report from the Forfás Expert Group on Future Skills Needs, Ireland is emerging as a leading location for biopharmaceuticals with a mix of start-ups, high growth SMEs and large multinationals located here.</p>		
				
	Industry leaders including Pfizer, Eli Lilly, Sanofi, MSD (biologics based in Carlow) and Alkermes plc. have significant investment in Ireland which has facilitated rapid growth and development of the industry. These coupled with a strong generics industry (Wockhardt, Clonmel Healthcare both based in the South-East) provide prospective employment opportunities for	graduates and key engagement partners for the programme. At present, there are approximately 60 biopharmaceutical companies in Ireland employing an estimated 4,000 people. This programme is designed to meet the growing demand for scientists to service the current and emerging biotechnology-based industries in Ireland in particular, the South-East, Mid-East and Midlands. The current industrial perception is that Ireland's future technology will predominantly be based upon biotechnology and IT orientated industries.	Special Features of this programme <p>The primary objective of this Masters is to enable learners to expand their job responsibilities and opportunities in new areas after completing the programme. It will also enable learners to create an excellent network within the pharmaceutical industry, both by meeting other regulatory professionals during the course and by interacting with industry experts while completing their dissertation research.</p> Exit award <p>Students who successfully complete the relevant 60 credits of the programme will be eligible for the Postgraduate Diploma in Pharmaceutical Regulatory Affairs (Level 9) should they opt to leave the programme (Embedded Exit Award).</p> Entry requirements <p>A second-class honours degree in science, engineering, quality, pharmaceutical or regulatory affairs or cognate areas. Those failing to meet the classification requirement may be eligible for entry to the Postgraduate Diploma.</p> <p>Candidates with significant experience in: pharmaceutical operations, quality engineering, device design, mid to senior management in industry, other professionals who wish to upskill in the regulatory affairs environment, regulatory affairs personnel themselves who want to upskill (as determined by the Institute's recognition of prior learning policy), in addition to an honours primary degree in another discipline area may also be considered for entry.</p>	

Master of Science Applied Research and Innovation

COURSE CODE CWE03 (MSc)	DURATION 1 YEAR – FULL-TIME	LOCATION CARLOW	AEROSPACE, MECHANICAL AND ELECTRONIC ENGINEERING Dr Cathal Nolan PhD, MEng, PgDip, BEng E: cathal.nolan@itcarlow.ie
-----------------------------------	---------------------------------------	---------------------------	---

What is the programme about?

The capacity of a business to innovate through new or improved products and services is fundamental to its competitive and commercial success. The objective of this unique practise-focused Masters programme is to cultivate an integrated professional skillset in graduates (science, engineering, design, computing and business) for the effective management of the innovation process through the development of strategic, research-led and knowledge transfer capabilities.

You will learn how new products and services are created and how they get to market as well as how innovation is managed in different types of organisations.

The programme is designed to connect, integrate and embed research activity within regional small and medium enterprises and to meet an identified skills gap within that sector.

The programme will facilitate learners to explore their own interests in an active and practical way through undertaking research projects with local companies. You will experience what it means to carry out research and how to develop real life scenarios for organisations by working in a project based way to apply the knowledge acquired through the modules.

Why choose this programme?

The programme is designed for students or professionals who want to gain employment or apply practical research skills in their current work environment in the area of research and innovation. It is equally suited to final year students who wish to extend or develop a current project to a Level 9 degree for application within a real work environment.

The course will provide students with a comprehensive skill set in research and innovation and provide a strong foundation for further postgraduate study, particularly for PhD research.

What follow-on study opportunities are available?

Graduates may pursue Level 10 (PhD) study opportunities upon successful completion of this programme.

What will I be able to do when I finish this programme?

On completion of this programme learners should be able to:

- Analyse the current innovative performance of an organisation;
- Work with a range of innovation management skills;
- Utilise a research and enquiry based approach to business problems;
- Analyse and resolve problems across a range of competing demands and disciplines/industry function perspectives;
- Understand and facilitate project delivery.

What subject areas will I study?

Innovation Integration Management

Applied Research Methods

Entrepreneurship and Business

Model Bootcamp

Research, develop and produce three industry-based research papers

Design Thinking for Innovation

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

Innovation 2020, Ireland's strategy for research and development, science and technology

'Becoming a Global Innovation Leader will result in key benefits for Irish society. Over the coming decades, we will face profound challenges and innovation and research will be centre-stage in developing our national responses. There will be growing demand for energy and food security, health services, education, protection of the environment, understanding the ocean, and combatting poverty and social exclusion.'

Our success in delivering on the ambition in this strategy will depend on our people – undertaking the research, working in and creating successful enterprises, and contributing to the society in which we live.'



Entry requirements

Applicants require an Honours degree (ideally a 2.1 or above in a cognate, business orientated discipline) or equivalent.

Graduates of other disciplines with significant business/industry experience will be considered on a case-by-case basis.

All applicants will be required to provide a personal statement and may attend an interview as part of the entry requirement for this programme.

Master of Science Management in the Built Environment

Refer to pages
101-103 for full
course listings

NFQ LEVEL 9

BUILT ENVIRONMENT AND
EXTENDED CAMPUS

Anthony Dempsey

BEng (Hons) CEng, MSc CPM, MIEI

E: dempsey@itcarlow.ie

LOCATION
CARLOW

DURATION
1 YEAR – FULL-TIME

COURSE CODES
CWE01 (MSc)
CWE02 (PGDip)

What subject areas will I study?

Leadership and Strategy

Construction Project Management

BIM Management

Building Economics and Life Cycle Cost Analysis

Research Methods

Dissertation

Elective Subjects

Legal Aspects of Management in Built Environment

Public Procurement of Construction

Energy and Buildings

Facilities Management

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

Professional Development

Institute of Technology Carlow is a Registered Training Provider with Engineers Ireland.

Each of the above modules can be taken individually to support the continuing professional development of engineers and other professionals across the built environment sector.

As a result, CPD commitments can be maintained whilst learners potentially build towards the attainment of a masters award over an extended period of time.

What is the programme about?

This programme offers the opportunity for progression throughout the built environment sector. Graduates have noted improved salaries, greater promotion prospects and the ability to transfer their skills through a range of technical, managerial and design careers. Recruitment companies such as Hays and Brightwater are confirming that demand for professionals throughout the built environment sector is increasing, with increasing salaries reflecting the shortfall in suitably qualified staff.

The programme ensures that the learners will have an in-depth knowledge of the underlying theories, key concepts and technologies within the discipline area of the built environment. Graduates will be able to analyse the complex contemporary challenges and issues in the management of the built environment and integrate and apply this knowledge to formulate creative and innovative solutions. They will develop a capacity for critical thinking within their discipline and demonstrate an ability to bring their expertise to bear on real world problems and challenges in the built environment. They will be equipped to lead, develop, and manage within a range of built environment organisations.

What will I be able to do when I finish the programme?

Graduates of this programme will be well placed to take up management positions across the full built environment sector.

Potential employment opportunities

The course is aimed at improving management competency in the built environment, both on the developer/design team side and on the contracting side.

Graduates of the programme will be ideally qualified to work anywhere across the built environment sector from development, design, procurement, construction and management of new buildings to the refurbishment of existing structures.

What follow-on study opportunities are available?

Graduates may pursue Level 10 (PhD) study opportunities upon successful completion of this programme.

Postgraduate Diploma and Minor Awards

The Postgraduate Diploma in Management in the Built Environment is an embedded Exit Award.

Additionally, each module represents a discreet minor award that can be taken individually.

Entry requirements

A minimum 2nd class Honours Degree in civil engineering, quantity surveying, facilities management, architectural technology, construction management, building surveying, architecture, architectural science or equivalent qualification in a cognate discipline area.

Chartered members of built environment professional bodies include such organisations as: Chartered Institute of Building, Engineers Ireland, Royal Institute of Architects of Ireland, Society of Chartered Surveyors Ireland.

Candidates with significant experience in the built environment sector (as determined through IT Carlow's Recognition of Prior Learning Policy), in addition to an honours primary degree in another discipline area, may also be considered for entry.

Applicants applying for entry via routes other than that listed above will be considered on a case-by-case basis through the IT Carlow RPL system.



Refer to pages
101-103 for full
course listings

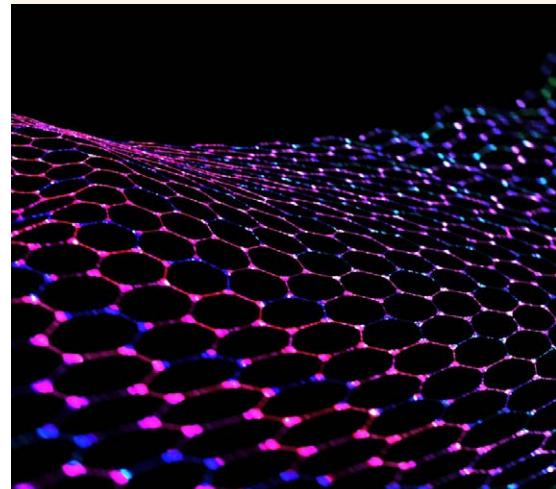
NFQ LEVEL 9

Master of Engineering Applied Materials

	COURSE CODE CWE06 (MEng)	DURATION 1 YEAR – FULL-TIME	LOCATION CARLOW	AEROSPACE, MECHANICAL AND ELECTRONIC ENGINEERING Dr Cathal Nolan PhD, MEng, PgDip, BEng E: cathal.nolan@itcarlow.ie
	<p>What is the programme about?</p> <p>The Masters and Postgraduate Diploma of Engineering in Applied Materials will provide learners with the expertise, tools and techniques essential to material characterisation, simulated design, failure analysis, and applied materials selection.</p> <p>This programme focuses on the formulation of new solutions, principles, and methods to illustrate and evaluate the failure of mechanical components, identify functional deficiencies, and formulate design solutions. Learners will experience materials from an atomic level to component response simulation, using appropriate software-based formats. They will learn to synergise modern post-processing methods and advanced manufacturing techniques, as applied to a range of high-performance challenges including AM-embedded sensoring for aerospace applications, surface-responsive technologies for smart water and wastewater infrastructure, and environmentally responsive bulk materials to replace unsustainable single-use plastics and films.</p> <p>The programme will develop the skillsets required to solve advanced design problems and to provide</p>			
	<p>critical raw material support in several industrial fields, including smart manufacturing, pharmaceutical, built environment, and aerospace.</p> <p>What will I be able to do when I finish the programme?</p> <p>Graduates of this programme will acquire the skills to design, and conduct experiments and apply a range of standard and specialised research tools and techniques of enquiry. They will also have the expertise to develop and build appropriate finite element models to solve complex engineering problems with respect to the predicted life of a material in service.</p>			
	<p>What follow-on study opportunities are available?</p> <p>Successful graduates of this programme may apply to undertake a PhD at the Institute of Technology Carlow or other third-level institutions.</p> <p>Potential employment opportunities</p> <ul style="list-style-type: none">• Materials Scientist• Design Engineer/Manager• Failure Analysis Engineer• Product Designer• Critical Resource Management (CRM) Consultant• Research and development in the physical, engineering, and life sciences• Transportation equipment manufacturing• Computer and electronic product manufacturing• Engineering services.			
	<p>Special Features of this course</p> <p>There is a strong focus on hands-on research with access to industry standard equipment, including static/dynamic UTMs, advanced microscopy tools (3D, dark field), and bespoke environmental test chambers.</p>			

Entry requirements

1. Graduates with a minimum for 2.2 honours in a Level 8 degree such as Mechanical/Materials Science/Aerospace/Aeronautical /Aircraft Engineering or equivalent programme.
or
2. Graduates with a Level 7 Distinction award in Mechanical/Materials Science/Aerospace/Aeronautical/Aircraft or equivalent programme with a minimum 2 years relevant post qualification experience.
or
3. EU and International graduates whose qualifications which are in line with the Bologna agreement or the international NARIC system for Level 8 comparison.
4. International learners must have an English Language score of 6.0 ILETS or a Duolingo score of 100.



Master of Science Industrial Networks and Cybersecurity

Refer to pages
101-103 for full
course listings

NFQ LEVEL 9

AEROSPACE, MECHANICAL AND ELECTRONIC ENGINEERING
Dr Cathal Nolan
PhD, MEng, PgDip, BEng
E: cathal.nolan@itcarlow.ie

LOCATION
CARLOW

DURATION
1 YEAR – FULL-TIME

COURSE CODE
CWE07 (MSc)

What subject areas will I study?

Industrial Control Systems
Advanced Industrial Automation
Programming I & II
Industrial Networks I & II
Cybersecurity I & II
Research Methods for Engineering
Dissertation (Engineering)
Work-based Project
Professional Development

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

This Masters of Science and Postgraduate Diploma in Industrial Networks and Cybersecurity is designed to meet the needs of companies in traditional manufacturing, smart manufacturing companies and those engaged in Industry 4.0. The aim of the programme is to widen and enhance the existing skills of learners who typically have existing Operations Technology (OT) skills, and supplement these with a strong, skills-based, knowledge of industrial networking and Cybersecurity.

Graduates will acquire skills to bridge the gap between the manufacturing operations and the business and will gain a range of skills, techniques and approaches to equip them to best develop and protect the network and the processes in the manufacturing zone.

The aim of the programme is to develop theoretical and applied skills to allow graduates to work in operations, often with a close relationship to the IT manager and Chief Information Security Officer (CISO), with a specific focus on the Industrial Networks and the Cybersecurity aspects of it.

What will I be able to do when I finish the programme?

- Work and collaborate with COO and CISO, operations engineers, IT engineers as well as vendors and information security consultants.
- Analyse, design, interpret performance data, pinpoint improvement strategies, and understand network and the cybersecurity threat landscape.
- Develop the skill and technical knowledge to be the focal point within the industrial operations team for networks and cybersecurity.



What follow-on study opportunities are available?

Successful graduates of this programme may apply to undertake a PhD at the Institute of Technology Carlow or other third-level institutions.

Potential employment opportunities

- Security architect
- Penetration tester
- Network engineer
- CISO
- Security engineer
- Security auditor
- Information security forensic expert
- Incident responder
- Vulnerability assessor

Special Features of this course

Students will learn about Industrial Control and Automation Systems (ICAS), Programming, Industrial Networks and Cybersecurity. To promote engagement with industry and raise awareness of technical advances, this programme combines blended learning with a work-based project, to build bridges between understanding and commercial application.

Entry requirements

1. Graduates with a minimum for 2.2 honours in a Level 8 degree such as Electronics/Electrical/Mechatronics/Computer Engineering or equivalent programme.
or
2. Graduates with a Level 7 Distinction award in Electronics/Electrical / Mechatronics/Computer Engineering or equivalent programme with a minimum 2 years relevant post qualification experience.
or
3. EU and International graduates whose qualifications which are in line with the Bologna agreement or the international NARIC system for Level 8 comparison.
4. International learners must have an English Language score of 6.0 IELTS or a Duolingo score of 100.

Master of Engineering Flight Test Engineering

COURSE CODES
CWE04 (MEng)
CWE05 (PGDip)

DURATION
1 YEAR – FULL-TIME

LOCATION
CARLOW

AEROSPACE, MECHANICAL AND
ELECTRONIC ENGINEERING
Dr Cathal Nolan
PhD, MEng, PgDip, BEng
E: cathal.nolan@itcarlow.ie

What is the programme about?

The aim of the Masters and Postgraduate Diploma of Engineering in Flight Test Engineering is to develop theoretical and applied skills to allow graduates work in the field of flight testing for both manned and unmanned aerial vehicles. Students will learn about the overall design of flight vehicles and its associated engineering systems in order to develop the appropriate test flights as part of the certification process. The programme will teach students how to test aerial vehicles safely, measure their performance from raw data and determine their flying qualities. Students will learn the necessary measurement techniques, instrumentation and data analysis methods required to collect and reduce flight test data to standard atmospheric conditions and then expand those results for publication in pilots operating manuals.

As part of the programme students will acquire comprehensive knowledge on propulsion and avionics systems allowing them to evaluate their shortcomings and determine what flight test techniques should be used.

What will I be able to do when I finish the programme?

Graduates will acquire the knowledge and technical expertise to work cross functionally and manage complex test campaigns throughout the entire

lifecycle of a Flight Test project.

- Work and collaborate with test pilots, design engineers, aircraft maintenance engineer's and certifying staff.
- Analyse, design, interpret performance data, pinpoint improvement strategies, and understand safety and ethical requirements related to the flight test.
- Develop the skill and technical knowledge to be the focal point of the team.

What follow-on study opportunities are available?

Successful graduates of this programme may apply to undertake a PhD at the Institute of Technology Carlow or other third-level institutions.

Potential employment opportunities

- Avionics Engineer
- Mechanical Systems Engineer
- Navigation Engineer
- Systems Test Engineer
- Flight Control Engineer
- Airworthiness Engineer

Special Features of this course

At present there is no other programme in the specialist area of Flight Test Engineering on offer in Ireland, successful graduates will have a unique skillset.

Entry requirements

1. Graduates with a minimum for 2.1 honours in a Level 8 degree such as Aerospace/ Aeronautical/Aircraft Engineering or equivalent programme.
or
2. Graduates with a Level 7 Distinction award in an Aerospace/Aeronautical/Aircraft or equivalent programme with a minimum 5 years aviation experience.
or
3. EU and International graduates whose qualifications which are in line with the Bologna agreement or the international NARIC system for Level 8 comparison.
4. International learners must have an English Language score of 6.0 IELTS or a Duolingo score of 100.





POSTGRADUATE PROGRAMMES – WEXFORD CAMPUS

TAUGHT MASTERS



HEAD OF POSTGRADUATE STUDIES

Dr Brian Jackson
BA, PhD
[E: brian.jackson@itcarlow.ie](mailto:brian.jackson@itcarlow.ie)

Development Office
T: 059 9175000



BUSINESS, DIGITAL MARKETING AND DESIGN

Master of Business in Business	50
Master of Science in Digital Media with Business Analytics	51
Higher Diploma in Business in Supply Chain Management	52
Higher Diploma in Business in Business Management	53
Higher Diploma in Business in International Financial Services	54
Higher Diploma in Business in Tourism Marketing	55
Higher Diploma in Business in Aquabusiness	56
Higher Diploma in Arts in Digital Media Design	57

HUMANITIES AND SOCIAL SCIENCES

Master of Arts in Child, Youth and Family Studies	58
Master of Arts in Leadership in Early Years Education and Care	59
Higher Diploma in Arts in Early Childhood Education and Care	60
Higher Diploma in Arts in Applied Social Studies (Professional Social Care)	61

Refer to pages 101-103 for full course listings

NFQ LEVEL 9

Master of Business Business

COURSE CODES
CWX03 (MB)
CWX04 (PGDip)

DURATION
2 YEARS – PART-TIME

LOCATION
WEXFORD

DEPUTY HEAD OF CAMPUS

Dr Janette Davies
BSc, MA, PhD, MMII
E: janette.davies@itcarlow.ie

What is the programme about?

This postgraduate programme brings theory to life through its exciting work placement element and applied learning focus, enabling participants to apply acquired knowledge and competencies in a real-world workplace environment. The programme equips graduates with the attributes required by business to make an immediate contribution to the organisation through its work placement experience element. The industrial placement is of four months duration, from May to August, and affords the student a unique opportunity to implement and reflect on the theories learned on the programme. It will complement the student's education and broaden his/her skill set. A number of progressive local enterprises partner with us in this initiative. Work placement is recognised by prospective employers and students alike as being a very sought after aspect of an academic programme. Another new aspect of this programme is the module 'Communication for Professional Life'. As communication skills are

generally deemed an integral element of enquiry-based learning, this module will prepare graduates for executive and leadership scenarios which require negotiation and persuasive expertise and ability with the written word.

What will I be able to do when I finish the programme?

In a job market increasingly featuring primary honours degree holders, this Masters Programme, with its work experience element, significantly increases graduates' chances of recruitment by highly attractive employers. The Master of Business programme is aimed at producing creative, flexible and dynamic individuals, who can take up or enhance roles as business practitioners, in Ireland or overseas. A Master of Business is an internationally recognised qualification and opens the door to many careers.

What follow-on study opportunities are available?

Graduates may pursue Level 10 (PhD) study opportunities upon successful completion of this programme.

What subject areas will I study?

- Leadership and Strategy
- Corporate Governance, Ethics and Social Responsibility
- Research Methods
- Financial Analysis and Investment Appraisal
- Dissertation
- Strategic Marketing Management
- Strategic Human Resource Management
- Entrepreneurship and Innovation Management
- Communications for Professional Life
- Work Placement

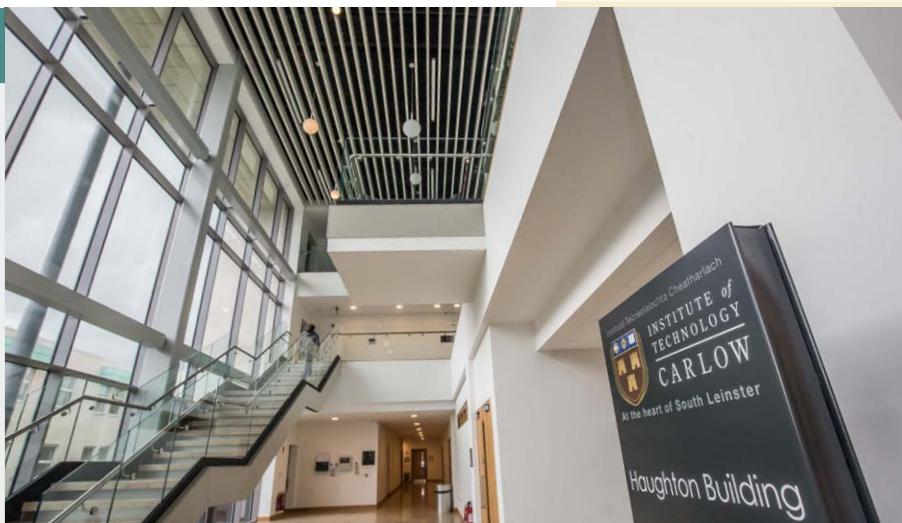
NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

Entry requirements

Graduates of programmes in engineering, science, design and other disciplines are required to have completed the Higher Diploma in Business in Management (Level 8) or equivalent to be eligible for admission to the Master of Business programme.

All applicants will be considered on a case-by-case basis. Criteria to be considered will include academic qualifications, recognition of prior learning and/or the applicant's performance in GMAT or equivalent.

Institute of Technology Carlow reserves the right to require applicants to attend for interview to determine their suitability for the programme.

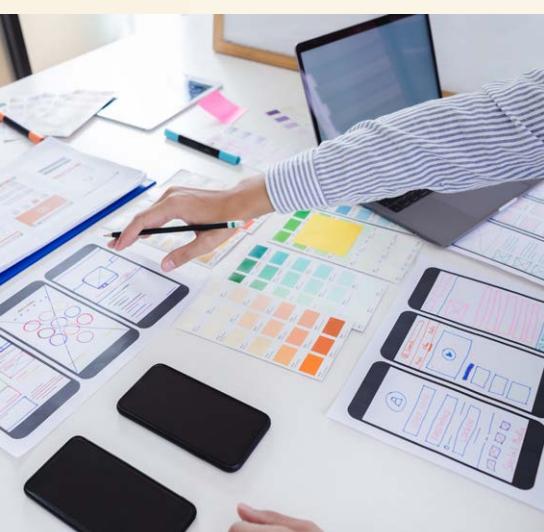


Master of Science Digital Media with Business Analytics

Refer to pages
101-103 for full
course listings

NFQ LEVEL 9

PROGRAMME DIRECTOR	LOCATION	DURATION	COURSE CODES	
David O'Callaghan BDes (Hons), MA E: david.ocallaghan@itcarlow.ie	WEXFORD	1 YEAR – FULL-TIME	CWX17 (MSc)	
What subject areas will I study?				
<p>Digital Media Design Information Design Digital Media Applications Programming for Data Analytics Business Intelligence Applications Business Data Analytics Digital Strategy Research Methods Placement or Research Project</p> <p>NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.</p>				
<p>What is the programme about?</p> <p>Digital Media is now an integrated part of all areas of the digital landscape. Covering areas from tradition graphic design and web and digital media, but also now a key skill in all forms of marketing, business and data analysis.</p> <p>Technology and its seamless integration into our lives has now caused an increased need for well designed information and assets, delivered in a bespoke, market focused format.</p> <p>Analytics, and information and the use of data, is now a major role in the digital landscape. Understanding data, retrieval, processing and presentation of data is a highly sought after skillset, across many if not all areas of business world.</p> <p>This programme aims to marry these two skills together, and create a learner that is highly skilled in the area of Digital Media Design with an in-depth knowledge of Business Analytics.</p> <p>The graduate will possess the ability and key skills needed to engage, create, and communicate information to a consumer driven market.</p> <p>What will I be able to do when I finish the programme?</p> <p>The digital industry in Ireland is currently top three growth area's in Ireland, this sector is one of the country's most prevalent employers. Graduates from IT Carlow will enter a market that is fast paced and growing exponentially. Alongside being highly sought after at a local and national, graduates will be skilled and equipped to travel the world and work in various dynamic and digital industries.</p> <p>Graduates will seek employment across the digital landscape. This will include areas of design, innovation and business analytics. Graduates with design and development skills backed up with in-depth data analytical skills, possess a combination of practical and theoretical skills that now make them highly sought after.</p> <p>In addition, employers recognise the merits of diverse skills in programming, strategy, business, research and innovation, all of which are developed whilst studying for the MSc in Digital Media with Business Analytics.</p> <p>Graduates of the MSc in Digital Media with Business analytics can take up employment in areas such as:</p> <ul style="list-style-type: none"> • Digital Media • UI/UX Development • Web and interface design and development • App design and development • Data analyst • Data visualisation • Business innovation • Design innovation • Social media content development • Social media management and consultation • Marketing content development, management and consultation • Digital content management • Project management. <p>Exit Award</p> <p>Students who successfully complete the relevant 60 credits of the programme will be eligible for the Postgraduate Diploma in Digital Media with Business Analytics.</p>				
<p>Entry requirements</p> <p>Applications are welcomed from a wide range of design and analytics related disciplines. Candidates are sought from the areas of Design, Creative Arts, Computing, TV and Media, Business, Digital Marketing, Business Analytics and Data Science.</p> <p>All applicants will need to have a Level 8 honours degree with 30 ECTS credits in a design/digital related subject/module.</p> <p>Applicants may be called for interview.</p>				



Higher Diploma **Business in Supply Chain Management**

	COURSE CODE CWX11 (HDip)	DURATION 1 YEAR – PART-TIME	LOCATION WEXFORD	DEPUTY HEAD OF CAMPUS Dr Janette Davies BSc, MA, PhD, MMII E: janette.davies@itcarlow.ie	
What is the programme about?		exist in logistics and distribution. This work involves using sophisticated computerised planning tools such as MRP/ERP, interacting and negotiating with external suppliers and internal customers and contributing to project management as members of cross-functional teams.			
What follow-on study opportunities are available?		This qualification will allow the participant to apply for the MBA or MB, depending on his/her business experience, and continue to develop and extend his/her skills base and knowledge at NFQ Level 9.			
What will I be able to do when I finish this programme?		Potential employment opportunities <ul style="list-style-type: none">• Supply Chain/Warehouse/Inventory Control Manager• Purchasing Manager• Operations Manager• Production Manager• Procurement Manager• Business Development Manager• Supply Chain/Logistics Consultant.			
Entry requirements		<p>Applicants require an NFQ Level 8 Award or equivalent, for entry to this programme. Other applicants will be considered on an individual basis in accordance with the Institute policy on Recognition of Prior Learning (RPL). The department reserves the right to require applicants to attend for interview to determine their suitability for the programme.</p> 			

Higher Diploma Business in Business Management

Refer to pages 101-103 for full course listings

NFQ LEVEL 8

DEPUTY HEAD OF CAMPUS Dr Janette Davies BSC, MA, PhD, MMII E: janette.davies@itcarlow.ie	LOCATION WEXFORD	DURATION 1 YEAR – PART-TIME	COURSE CODE CWX05 (HDip)	
--	--------------------------------	---	--	--

What subject areas will I study?

Management Accounting
Corporate Governance and Business Practice
Strategic Human Resource Management
Work based research project
International Business
Strategic Management

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

This one-year graduate Higher Diploma programme is designed for graduates of non-business disciplines in order to equip them with the necessary knowledge and competencies for management in business. It will provide graduates with an in-depth understanding of the contemporary business environment.

The programme will enable graduates to further develop, consolidate and synthesize their knowledge and skills through experience, professional and/or academic education and improve their overall employment prospects.

What will I be able to do when I finish the programme?

This programme will provide candidates with extensive knowledge of the many business disciplines that influence business and strategic decisions, thus enabling them to pursue management roles in their chosen discipline and across an organisation.

What follow-on study opportunities are available?

This programme will give graduates the basis and maturity to proceed to the MBA or MB taught part-time programmes depending on their general business experience.

Exam information

Modules completed in Term 1 will, where applicable be examined in early December 2021. Modules completed in Term 2 will, where applicable, be examined in May 2022.



Entry requirements

Graduates with Level 8 qualifications. Other applicants will be considered on a case-by-case basis through completion of the Recognition of Prior Learning (RPL). IT Carlow reserves the right to require applicants to attend for an interview to determine their suitability for the programme.

Higher Diploma **Business in International Financial Services**

	COURSE CODE CWX14 (HDip)	DURATION 1 YEAR – PART-TIME	LOCATION WEXFORD	DEPUTY HEAD OF CAMPUS Dr Janette Davies BSc, MA, PhD, MMII E: janette.davies@itcarlow.ie
	<p>What is the programme about?</p> <p>This Higher Diploma in International Financial Services is designed to provide participants with specific knowledge of fund administration, project management, data analysis and reporting within the financial sector. It will give participants the tools they need to understand the fundamentals of this international industry and the various roles that offer employment within it. This programme is designed to appeal to those who are looking to re-skill or up-skill to gain employment in the International Financial Services Sector. The applied nature of this programme is reflected in the combination of project management and data analysis alongside accounting and administration modules which focus on developing the student's knowledge of the International Financial Services Sector, fund management and all the regulatory requirements nationally, at EU level and at international levels. All participants will improve their knowledge, numeracy skills, IT skills and commercial awareness of the industry.</p>	<p>What will I be able to do when I finish the programme?</p> <p>On completion of this programme, students will have knowledge and understanding of the international financial services industry. The programme will also develop their intellectual and practical skills via the analysis and evaluation of funds administration, project management, data analytics and compliance.</p>	<p>What subject areas will I study?</p> <hr/> <p>Mutual Fund Accounting Hedge Fund Accounting Legal and Regulatory Aspects of Financial Services Project Management and Communications Data Analysis and Risk Work-based Research Project</p> <p>NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.</p>	<p>What follow-on study opportunities are available?</p> <p>This programme will give graduates the basis and maturity to proceed to the Master of Business or other masters programmes related to the Financial Services Sector, depending on their general business experience.</p> <p>Exam information</p> <p>Modules completed in Term 1 will, where applicable, be examined in early December 2021. Modules completed in Term 2 will, where applicable, be examined in May 2022.</p>

Entry requirements

Applicants require an NFQ Level 7 or 8 Award, or equivalent, for entry to this programme. Other applicants will be considered on an individual basis in accordance with the Institute policy on Recognition of Prior Learning (RPL). IT Carlow reserve the right to require applicants to attend for interview to determine their suitability for the programme.



Higher Diploma Business in Tourism Marketing

Refer to pages
101-103 for full
course listings

NFQ LEVEL 8

DEPUTY HEAD OF CAMPUS Dr Janette Davies BSC, MA, PhD, MMII E: janette.davies@itcarlow.ie	LOCATION WEXFORD	DURATION 1 YEAR – PART-TIME	COURSE CODE CWX13 (HDip)	
--	--------------------------------	---	--	--

What subject areas will I study?

Marketing and Brand Communications
Online Marketing Strategy and Practice
Management and Financial Planning
Work Based Research Project
Tourism Operations
Strategic Tourism Marketing

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

This is a one-year Higher Diploma designed for those who would like to change career, or who may already be employed in the tourism industry. As the economy continues to recover, more graduates will be required to work in the tourism sector. This programme addresses the need for graduates with knowledge in the area of culture, tourism operations, marketing (including e-marketing) and general business.

What will I be able to do when I finish the programme?

On completion of the programme, students should be able to:

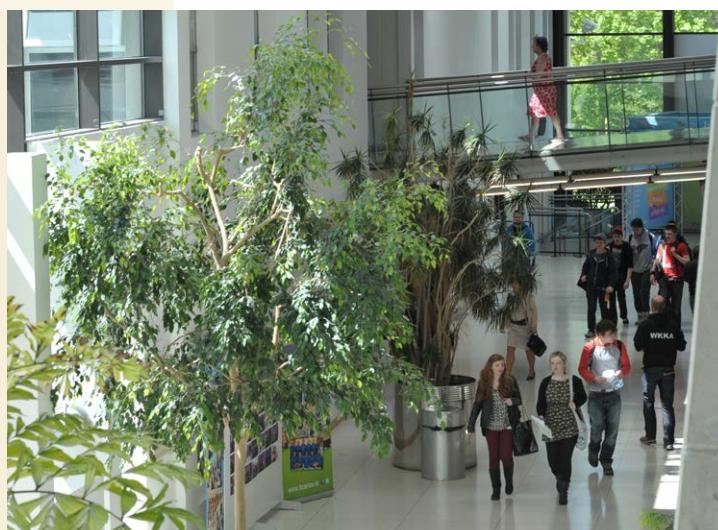
- Demonstrate in-depth knowledge, skills and competencies in strategic planning and sustainable development of tourism management (business and services) in the context of location, resources and markets.
- Analyse frameworks to provide both theory and practical tools of information in Business and Tourism Marketing.
- Understand the linkage between competitive dynamics, macro and micro economics and the economic benefit to the tourism industry.

What follow-on study opportunities are available?

This programme will give graduates the basis and maturity to proceed to the Master of Business or, the MSc in Digital Marketing taught part-time programmes, depending on their general business experience.

Potential employment opportunities

- Travel Agent
- Customer Service Assistant/Manager
- Supervisor/Team manager
- Tour Manager
- Tourist Guide
- Tourist Information Centre Assistant
- Other tourism related commercial operations.



Entry requirements

Applicants require an NFQ Level 7 or 8 Major Award in business or a level 8 Major Award in a non-business area for entry to this programme. Other applicants will be considered on an individual basis in accordance with the Institute policy on Recognition of Prior Learning (RPL). IT Carlow reserve the right to require applicants to attend for interview to determine their suitability for the programme.

Higher Diploma Business in Aquabusiness

	COURSE CODE CWX10 (HDip)	DURATION 1 YEAR – PART-TIME	LOCATION WEXFORD	DEPUTY HEAD OF CAMPUS Dr Janette Davies BSc, MA, PhD, MMII E: janette.davies@itcarlow.ie
<p>What is the programme about?</p> <p>Developed in partnership with Bord Iascaigh Mhara (BIM – The Irish Sea Fisheries Board), this programme offers opportunities for those individuals interested in the seafood industry. The programme will be of interest to those looking to enter management roles in aquabusiness, aqua economics; financial or regulatory roles in R&D or in a seafood processing company or those interested in starting an aquabusiness.</p> <p>This programme offers opportunities for personal development to explore new insights in strategic thinking and to enhance presentation skills for supervisory roles in emerging growth areas for the Aqua sector.</p> <p>What will I be able to do when I finish the programme?</p> <p>Graduates will have the ability through project work to prepare aquabusiness (aquaculture, fisheries and seafood processing) plans to extend a product range and develop export markets. With a focus on sustainable fish farming and development of core skills in this sector, graduates of this programme will be able to:</p>		<ul style="list-style-type: none">• Undertake strategic analysis for market development;• Understand and analyse key issues within compliance, legal and regulatory affairs in the sector;• Innovate and build local and international marketing strategies;• Better manage, communicate and build greater capacity and functionality across teams;• Efficiently and effectively undertake economic pricing and financial analysis for better decision making. <p>Special Features of this programme</p> <p>This programme has been designed and developed with industry experts in BIM to provide real world practical skills and education to learners who will have the opportunity to work on live business projects within the aqua business sector and complete site visits and work experience.</p>		
<p>What subject areas will I study?</p> <p>Aquabusiness Economics Law and Regulation for Aquabusiness Strategic and Innovation Management Financial Management and Planning Marketing Management in Aquabusiness Work Placement</p> <p>NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.</p>				

Entry requirements

This course is designed to cater for the aqua, fisheries and bio-products sectors of the seafood industry.

Applicants with major degrees at Level 7 (QQI Level 7 or equivalent). In addition, those with extensive work experience on fish farms or in fisheries occupations may be eligible under the IT Carlow recognition of prior learning policy (RPL). All applicants will be considered on a case by case basis. IT Carlow reserves the right to require applicants to attend for an interview to determine their suitability for the programme.



Bord Iascaigh Mhara
Irish Sea Fisheries Board

Higher Diploma in Arts Digital Media Design

Refer to pages
101-103 for full
course listings

NFQ LEVEL 8

DEPUTY HEAD OF CAMPUS	LOCATION	DURATION	COURSE CODES
Dr Janette Davies BSC, MA, PhD, MMII E: janette.davies@itcarlow.ie	WEXFORD	1 YEAR – FULL-TIME	CWX06 (HDip)
		2 YEARS – PART-TIME	CWX07 (HDip)

What subject areas will I study?

Entrepreneurship
Creative Studio
Digital Media Design
Web Design Methods
Marketing Management

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

Digital media takes its roots from graphic design, where messages are translated into a captivating experience, using an array of communication forms. Students will create projects in graphic design (typography, illustration, branding, packaging and advertising) and digital media (websites, animation and interactive design).

What will I be able to do when I finish this programme?

The main aim of this programme is to facilitate the transformation of the novice student into a creative practitioner in digital media design. The programme provides an integrated learning environment (studio) that encourages creativity, innovation, self-assessment and discussion. Learning and assessment is through "real world" practices, which involve setting project briefs in a project/problem-based learning environment.

Potential employment opportunities

Students will develop a portfolio of works to include designs in digital media and graphic design. Through a transformative process, students will become creative practitioners and developing skills in: creative problem solving, design principles and practices, project management, communication and collaboration, technical design skills, marketing and entrepreneurship. They will experiment and explore new ideas and concepts and integrate theories and methodologies to develop design solutions. A good designer should display personal qualities of ambition, curiosity, energy, enthusiasm, imagination, initiative and talent.

Career opportunities include:

- Digital Media Designer
- Graphic Designer
- UX/UI Designer
- Web Designer
- Animation
- Interactive and Multi-media Design
- Mobile Media Technologies.



Entry requirements

Applicants must currently hold a Level 8 degree. Applications not covered under the above criteria will be considered on an individual basis, through submission of a portfolio of prior work or by an RPL procedure in accordance with the IT Carlow Recognition of Prior Learning Policy. All applicants will be considered on a case-by-case basis. IT Carlow reserves the right to require applicants to attend for interview to determine their suitability for the programme.

Master of Arts Child, Youth and Family Studies

COURSE CODES
CWX01 (MA)
CWX02 (PGDip)

DURATION
2 YEARS – PART-TIME

LOCATION
WEXFORD

DEPUTY HEAD OF CAMPUS

Dr Janette Davies
BSc, MA, PhD, MMII
E: janette.davies@itcarlow.ie

What is the programme about?

The Master of Arts in Child, Youth and Family Studies provides learners with a range of critical and analytical tools to enable them to manage and lead services that develop the potential of children, youth and families and envision new possibilities for better service provision in the sector. The programme is designed to provide the knowledge, skills and competencies required by the sector and to provide future leaders of Child, Youth and Family services in Ireland and abroad.

The programme aims to educate learners to high levels of contemporary and comparative theoretical awareness in fields central to services provision (transitions across the life span, cultural diversity, youth and families) and to create an atmosphere of rigorous academic enquiry and writing.

Learners will develop a deep and integrated knowledge of contemporary child, youth and family theory and practice, and the sector within which child, youth and family services operate.

What will I be able to do when I finish the programme?

Graduates may also adopt research and advisory roles in relation to the development and planning of such services. Graduates will be in a position to critically evaluate existing services and programmes and to visualise future possibilities for better service provision.

The programme will meet the needs of professionals who are already working in the area of social care/work, early education, youth and family work and related areas. It will also serve to provide new graduates with a unique opportunity to gain a competitive edge prior to embarking on a career in these fields or in the field of academia.

What follow-on study opportunities are available?

Graduates of the programme may progress to a PhD programme of study in the discipline areas, in Ireland or abroad. Graduates of the programme may also be eligible to progress to a professional doctorate in the field of Child, Youth and Family Studies in both Irish and international Institutions.

Potential employment opportunities

- Community based organisations and projects both at a voluntary and statutory capacity
- National rights focused organisations and advisory groups
- Family support services
- Services catering for the care, education and advocacy of children and families in society.

Graduates may also adopt research and advisory roles in relation to development and planning for such services. Graduates will be in a position to critically evaluate existing services and programmes and to visualise future possibilities for better service provision.

What subject areas will I study?

Contemporary issues in Childhood and Youth Studies

Applied Psychology

Perspectives on Family and Society

Leadership, Strategy and Governance

Research Methods and Dissertation

Elective Subjects

Addiction Studies

Adult and Community Education

Youth Justice

Child and Family Rights

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

Entry requirements

Programme participants are required to hold a Level 8 degree (with a minimum of 2nd Class Honours) in the following areas:

- Early Childhood Education and Care
- Applied Social Studies
- Social and Community Studies
- Youth and Community

or a primary Level 8 degree in Social Sciences or cognate area (minimum 2nd class honours).

Candidates with significant experience in the social sciences (as determined by IT Carlow's Recognised Prior Learning (RPL) policy), in addition to an honours primary degree in another discipline area may also be considered for entry.

Applicants applying for entry via routes other than those listed above will be considered on a case-by-case basis and in accordance with IT Carlow's Recognised Prior Learning (RPL) policy.



Leadership in Early Years Education and Care

DEPUTY HEAD OF CAMPUS	LOCATION	DURATION	COURSE CODE	
Dr Janette Davies BSC, MA, PhD, MMII E: janette.davies@itcarlow.ie	WEXFORD	2 YEARS – PART-TIME	CWX16 (MA)	
What subject areas will I study?				
<p>Contemporary Issues in Early Years Policy, Theory and Practice</p> <p>Leading Quality in Early Years Education and Care</p> <p>Leadership, Strategy and Governance</p> <p>Research Methods and Dissertation</p> <p>Transformative Children's Rights Education</p> <p>Educational Psychology</p> <p>Early Years Entrepreneurship and Innovation</p>				
<p>NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.</p> <p><i>Right from the Start- Report of the Expert Advisory Group on the Early Years Strategy, September 2013.</i></p> <p>Department of Children and Youth Affairs</p> <p>This report looks at the growing requirements of a rapidly expanding sector in a population with "over 480,000 children aged 0-6, representing 11% of the population" which is set to increase by between 17-20% by 2021 and the importance of having a policy for the youngest members of society. The report notes that "only 12% of those working in early childhood care and education services in Ireland have Degree-level qualifications (Pobal, 2013)", while the CoRe report has set out an EU benchmark of at least 60% of those working in this area who "should be graduates", "including equally those working with under-3s and those working with over-3s." A competent quality based systems calls for competent practitioners, which requires "a qualified workforce at all levels, which includes trainers, managers and inspectors."</p>				
<p>What is the programme about?</p> <p>Early Years Education and Care is a rapidly growing area in Ireland. This programme has been designed to facilitate and prepare students and current practitioners or those with an interest in early childhood education for leadership and management roles in the operation of early childhood education services and related public policy. This Masters programme will develop students' ability to both analyse, manage and creatively respond to critical issues and changes in early childhood care policy and service implementation, all the time being cognisant of the best interests of the child.</p>				<ul style="list-style-type: none"> Gather, assimilate, synthesise and analyse information on a variety of levels; Critically reflect on how leadership practice in early year's education connects to and interacts with wider social issues in Ireland and beyond.
<p>What follow-on study opportunities are available?</p> <p>Graduates of the programme may progress to a PhD programme of study in the discipline areas, in Ireland or abroad. Graduates of the programme may also be eligible to progress to a professional doctorate in the field of teaching and learning in both Irish and international Institutions.</p>				
<p>Potential employment opportunities</p> <p>This is an ideal postgraduate programme for students or current practitioners within the early childhood education sector who are interested in becoming an administrator, director or manager of early childhood education programs. It is also suitable for those interested in advisory, mentoring and inspection roles within the sector.</p>				
<p>What will I be able to do when I finish this programme?</p> <p>Graduates of this programme will be able to:</p> <ul style="list-style-type: none"> Demonstrate an in-depth knowledge of the underlying theories and key concepts with a focus on leadership and critical assessment skills within an Irish and International context; Analyse the current theories, concepts, challenges and research areas with an ability to solve complex problems through a variety of reflective and participatory work; Exhibit critical awareness of contemporary issues and challenges relating to the role and effect of early years education on the child, the family and society; Apply the theory and practice of leadership roles in supporting quality; Engage in scholarly debate at an academic, policy and practice based level on a range of early year's education and leadership issues; Develop, maintain and build on professional relationships fostered throughout the programme with practical skills and tools to reflect and critically self-evaluate; 				
<p>Entry requirements</p> <p>Entry requirements are a Level 8 degree, with a minimum of Second Class Honours, Grade 2 or equivalent in the following areas:</p> <ul style="list-style-type: none"> • Early Childhood Education and Care • Applied Social Studies • Social and Community Studies • Youth and Community Work • Social Sciences or cognate area <p>Candidates with significant experience in the social sciences (as determined by IT Carlow's Recognised Prior Learning (RPL) policy), in addition to an honours primary degree in another discipline area may also be considered for entry.</p> <p>Applicants applying for entry via routes other than those listed above will be considered on a case-by-case basis and in accordance with IT Carlow's Recognised Prior Learning (RPL) policy.</p>				



Higher Diploma in Arts Early Childhood Education and Care

	COURSE CODE CWX08 (HDip)	DURATION 1 YEAR – PART-TIME	LOCATION WEXFORD	DEPUTY HEAD OF CAMPUS Dr Janette Davies BSc, MA, PhD, MMII E: janette.davies@itcarlow.ie
	What is the programme about? <p>This programme provides an opportunity for students to study for a one-year Higher Diploma in Early Childhood Education and Care. This programme is being offered as a direct response to the introduction of the free school year in Early Childhood Education and Care (ECCE scheme) by the Department of Children and Youth Affairs and to address the upskilling needs of the sector. This programme is designed for graduates who are working in the Early Childcare sector and who do not hold the necessary qualification for the ECCE scheme. All successful applicants will have to complete 500 hours of Supervised Professional Practice as part of this Higher Diploma.</p>	What will I be able to do when I finish the programme? <p>On completion of this programme, students will be equipped with sufficient knowledge and skills in early childhood education and care to enable them to make a professional contribution to early childhood education and care, nationally and internationally.</p>	Special Features of this programme <p>All learners must complete 500 hours of supervised professional practice in the Early Childhood Education and Care sector as part of this programme.</p>	What subject areas will I study? <p>Pedagogy and Curriculum Outdoor and After School Education and Care Children's Literature in Early Childhood Literacy, Numeracy, Science and Technology in Early Childhood Education and Care Leading Contemporary and Quality Practice Visual Arts in Early Childhood Work based learning for ECEC Philosophy in Early Childhood Education</p>
Entry requirements	<p>To be eligible for consideration for this Higher Diploma in Early Childhood Education and Care, an applicant must hold a minimum Level 7 relevant major qualification and be working in the early years' sector. Garda vetting is required for this programme. Offers are conditional and may be withdrawn if applicants do not meet the Garda Vetting requirements. All applicants will be considered on a case-by-case basis. The Faculty reserves the right to require applicants to attend for an interview to determine their suitability for the programme.</p>			

Higher Diploma in Arts Applied Social Studies (Professional Social Care)

Refer to pages 101-103 for full course listings

NFQ LEVEL 8

DEPUTY HEAD OF CAMPUS	LOCATION	DURATION	COURSE CODE
Dr Janette Davies BSC, MA, PhD, MMII E: janette.davies@itcarlow.ie	WEXFORD	1 YEAR – PART-TIME	CWX09 (HDip)

What subject areas will I study?

- Introduction to Social Care
- Protection of Children and Vulnerable Persons
- Disability Services
- Ageing Studies
- Alternative to Home Care
- Children and Families
- Creative Skills 2
- Supervised Practice - Work based learning

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

This programme provides an opportunity for students to study for a one-year Higher Diploma in Applied Social Studies. The programme allows people to qualify as Social Care Workers. It is designed for graduates of non-Social Care disciplines who are working or wish to work in the Social Care sector. Successful applicants must undertake 800 hours of supervised professional practice as part of this Higher Diploma.

What will I be able to do when I finish the programme?

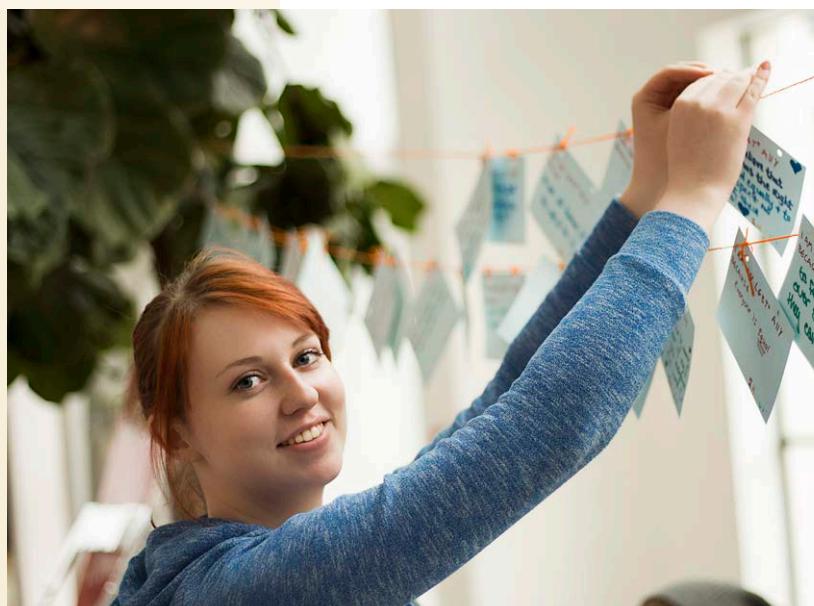
On completion of this programme, students should be equipped with sufficient knowledge and skills in Applied Social Studies to enable them to make a professional contribution to social care nationally and internationally.

Special Features of this programme

Learners on this programme must complete 800 hours of Supervised Professional Practise in the Social Care sector.

Exam information

Modules completed in Term 1 will, where applicable, be examined in early December 2021. Modules completed in Term 2 will, where applicable, be examined in May 2022.



Entry requirements

Applicants should be working in Social Care and should note that when the CORU register opens in October 2023, graduates of this programme will be applying under grandparenting and must be able to demonstrate that they have worked for at least 2 of the previous 5 years in Social Care to that point.

Applicants must hold a minimum Level 8 qualification in a non-social care area. Garda vetting is required for this programme. Offers are conditional and may be withdrawn if applicants do not meet the Garda Vetting requirements. All applicants will be considered on a case-by-case basis. IT Carlow reserves the right to require applicants to attend for an interview to determine their suitability for the programme.

POSTGRADUATE PROGRAMMES – WICKLOW CAMPUS

TAUGHT MASTERS



HEAD OF POSTGRADUATE STUDIES

Dr Brian Jackson
BA, PhD
[E: brian.jackson@itcarlow.ie](mailto:brian.jackson@itcarlow.ie)

Development Office
T: 059 9175000



BUSINESS, DIGITAL MARKETING AND DESIGN

Master of Business in Business	64
Master of Science in Supply Chain Management	65
Higher Diploma in Business in Supply Chain Management	66
Higher Diploma in Business in International Financial Services	67
Higher Diploma in Business in Business Management	68
Higher Diploma in Business in Tourism Marketing	69
Higher Diploma in Arts in Digital Media Design	70

HUMANITIES AND SOCIAL SCIENCES

Master of Arts in Child, Youth and Family Studies	71
Master of Arts in Leadership in Early Years Education and Care	72
Higher Diploma in Arts in Early Childhood Education and Care	73
Higher Diploma in Arts in Applied Social Studies (Professional Social Care)	74



Refer to pages 101-103 for full course listings

NFQ LEVEL 9

Master of Business Business

COURSE CODES
CWW03 (MB)
CWW04 (PGDip)

DURATION
2 YEARS – PART-TIME

LOCATION
WICKLOW

LIFELONG LEARNING MANAGER
Eoin O'Brien
BA, DBS, CBS, Cert Mgmt, MBA
E: eoin.obrien@itcarlow.ie

What is the programme about?

This postgraduate programme brings theory to life through its exciting work placement element and applied learning focus, enabling participants to apply acquired knowledge and competencies in a real-world workplace environment. The programme equips graduates with the attributes required by business to make an immediate contribution to the organisation through its work placement experience element. The industrial placement is of four months duration, from May to August, and affords the student a unique opportunity to implement and reflect on the theories learned on the programme. It will complement the student's education and broaden his/her skill set. A number of progressive local enterprises partner with us in this initiative. Work placement is recognised by prospective employers and students alike as being a very sought after aspect of an academic programme. Another new aspect of this programme is the module 'Communication for Professional Life'. As communication skills are

generally deemed an integral element of enquiry-based learning, this module will prepare graduates for executive and leadership scenarios which require negotiation and persuasive expertise and ability with the written word.

What will I be able to do when I finish the programme?

In a job market increasingly featuring primary honours degree holders, this Masters Programme, with its work experience element, significantly increases graduates' chances of recruitment by highly attractive employers. The Master of Business programme is aimed at producing creative, flexible and dynamic individuals, who can take up or enhance roles as business practitioners, in Ireland or overseas. A Master of Business is an internationally recognised qualification and opens the door to many careers.

What follow-on study opportunities are available?

Graduates may pursue Level 10 (PhD) study opportunities upon successful completion of this programme.

What subject areas will I study?

- Leadership and Strategy
- Corporate Governance, Ethics and Social Responsibility
- Research Methods
- Financial Analysis and Investment Appraisal
- Dissertation
- Strategic Marketing Management
- Strategic Human Resource Management
- Entrepreneurship and Innovation Management
- Communications for Professional Life
- Work Placement

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

Entry requirements

Graduates of programmes in engineering, science, design and other disciplines are required to have completed the Higher Diploma in Business in Management (Level 8) or equivalent to be eligible for admission to the Master of Business programme.

All applicants will be considered on a case-by-case basis. Criteria to be considered will include academic qualifications, recognition of prior learning and/or the applicant's performance in GMAT or equivalent.

Institute of Technology Carlow reserves the right to require applicants to attend for interview to determine their suitability for the programme.



Master of Science Supply Chain Management

Refer to pages
101-103 for full
course listings

NFQ LEVEL 9

LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	LOCATION WICKLOW	DURATION 1 YEAR – PART-TIME 2 YEARS – PART-TIME	COURSE CODE CWW13 (MSc)	
What subject areas will I study? <hr/> <p>Lean Manufacturing and Six Sigma Communications for Supply Chain Professionals Research Project SCM Performance Management Supply Chain Financial Management Sustainable Supply Chains Research Methods Strategic Supply Management Global Logistics and Technology</p> <p>NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.</p>	What is the programme about?	Potential employment opportunities	<p>This Masters programme offers a robust understanding of the concepts and best practices in Supply Chain Management for application in today's global economy. Supply chain management and sourcing have become a central focus for companies due to the rapid changes in demand for products and services, globalisation and technology. With operations becoming more complex, companies in the manufacturing, retail and technological sectors are searching for individuals with supply chain expertise. This programme has been designed in collaboration with industry to address those needs.</p>	
<p>The Expert Group on Future Skills Needs Statement of Activity 2014</p> <p>'The EGFSN forecasts that, due to an anticipated expansion in the sector, and the replacement demand arising from the retirement/exiting of those employed in core Freight, Transport, Distribution and Logistics occupations, some 13,500 to 15,500 job vacancies could become available over the period 2015-2020.</p> <p>There is a need for a consistent supply of suitably trained staff, as well as a need to retain and upskill those currently working in the sector. As staff progress through their careers, there is a requirement for training in additional skills for both operations and management roles.'</p>	What will I be able to do when I finish the programme? <p>On completion, graduates of the programme will be able to:</p> <ul style="list-style-type: none"> • Apply comprehensive knowledge of theory and practice of Supply Chain Management to a variety of industry operations; • Build and develop multi-disciplinary teams across all functions to bring about radical improvements in supply chain capability; • Effectively plan and manage resources at each stage of the supply chain; • Use critical thinking and research skills to design/redesign, implement and improve more sustainable, competitive and quality led supply chains from supplier to customer; • Communicate effectively with teams at all levels internally and build more sustainable, beneficial relationships along all stages of the supply chain from supplier to customer. 	<p>This Masters programme will prepare graduates to work in a number of job roles:</p> <ul style="list-style-type: none"> • Supply Chain Analyst or Manager • Project Managers • Logistics Managers • Operations consultants/ Manufacturing or Service Operations Managers • Warehouse/Inventory Manager • Purchasing Manager/Buyer/Planner. 	<p>Exit award Postgraduate Diploma in Science in Supply Chain Management is an Embedded Exit Award.</p>	
	What follow-on study opportunities are available? <p>Graduates may pursue Level 10 (PhD) study opportunities upon successful completion of this programme.</p>	Entry requirements <p>Entry requirements are a Level 8 degree with a minimum of Second Class Honours, Grade 2 in a related discipline or equivalent. IT Carlow operates a Recognition of Prior Experiential Learning (RPL) scheme whereby applicants may be considered, based on relevant work and other experience, for exemptions from programme modules and advanced entry. All applicants will be considered on a case-by-case basis. The Department reserves the right to require applicants to attend for an interview to determine their suitability for the programme.</p>		

Higher Diploma Business in Supply Chain Management

COURSE CODE CWW14 (HDip)	DURATION 1 YEAR – PART-TIME	LOCATION WICKLOW	LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie
------------------------------------	---------------------------------------	----------------------------	--

What is the programme about?

This one-year graduate diploma programme has been designed for graduates of business and non-business disciplines in order to equip them with the necessary knowledge and competencies in Supply Chain Management and business. Supply Chain Management is concerned with the management of the flow of goods and information through the value chain, from materials acquisition to final consumption. Put more simply, SCM is about being right: it is about getting the right product, in the right quantity, at the right quality, in the right place at the right time, for the right consumer at the right cost. In achieving all of this, supply chain management takes on many of the functions of a business including: forecasting, inventory management, purchasing management, warehouse management, information technology and transport management. Management professionals in logistics and supply chain management functions also work closely with other areas of the business including human resource management, manufacturing, marketing and finance.

exist in logistics and distribution. This work involves using sophisticated computerised planning tools such as MRP/ERP, interacting and negotiating with external suppliers and internal customers and contributing to project management as members of cross-functional teams.

What follow-on study opportunities are available?

This qualification will allow the participant to apply for the MBA or MB, depending on his/her business experience, and continue to develop and extend his/her skills base and knowledge at NFQ Level 9.

Potential employment opportunities

- Supply Chain/Warehouse/Inventory Control Manager
- Purchasing Manager
- Operations Manager
- Production Manager
- Procurement Manager
- Business Development Manager
- Supply Chain/Logistics Consultant.

What subject areas will I study?

Purchasing and Supplier Management
Strategic Management
Supply Chain Planning and Control
Global Logistics and Supply Chain Management
Strategic Procurement
Work Based Research Project

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What will I be able to do when I finish this programme?

Graduates of this programme will find employment opportunities in all manufacturing sectors including: electronics; pharmaceuticals and food processing - as buyers and material planners. Many opportunities also

Entry requirements

Applicants require an NFQ Level 8 Award or equivalent, for entry to this programme. Other applicants will be considered on an individual basis in accordance with the Institute policy on Recognition of Prior Learning (RPL). The department reserves the right to require applicants to attend for interview to determine their suitability for the programme.



Higher Diploma Business in International Financial Services

Refer to pages
101-103 for full
course listings

NFQ LEVEL 8

LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	LOCATION WICKLOW	DURATION 1 YEAR – PART-TIME	COURSE CODE CWW11 (HDip)	
--	--------------------------------	---	--	--

What subject areas will I study?

- Mutual Fund Accounting
- Hedge Fund Accounting
- Legal and Regulatory Aspects of Financial Services
- Project Management and Communications
- Data Analysis and Risk
- Work-based Research Project

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

This Higher Diploma in International Financial Services is designed to provide participants with specific knowledge of fund administration, project management, data analysis and reporting within the financial sector. It will give participants the tools they need to understand the fundamentals of this international industry and the various roles that offer employment within it. This programme is designed to appeal to those who are looking to re-skill or up-skill to gain employment in the International Financial Services Sector. The applied nature of this programme is reflected in the combination of project management and data analysis alongside accounting and administration modules which focus on developing the student's knowledge of the International Financial Services Sector, fund management and all the regulatory requirements nationally, at EU level and at international levels. All participants will improve their knowledge, numeracy skills, IT skills and commercial awareness of the industry.

What will I be able to do when I finish the programme?

On completion of this programme, students will have knowledge and understanding of the international financial services industry. The programme will also develop their intellectual and practical skills via the analysis and evaluation of funds administration, project management, data analytics and compliance.

What follow-on study opportunities are available?

This programme will give graduates the basis and maturity to proceed to the Master of Business or other masters programmes related to the Financial Services Sector, depending on their general business experience.

Exam information

Modules completed in Term 1 will, where applicable, be examined in early December 2021. Modules completed in Term 2 will, where applicable, be examined in May 2022.



Entry requirements

Applicants require an NFQ Level 7 or 8 Award, or equivalent, for entry to this programme. Other applicants will be considered on an individual basis in accordance with the Institute policy on Recognition of Prior Learning (RPL). IT Carlow reserve the right to require applicants to attend for interview to determine their suitability for the programme.

Higher Diploma **Business in Business Management**

	COURSE CODE CWW07 (HDip)	DURATION 1 YEAR – PART-TIME	LOCATION WICKLOW	LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie
	What is the programme about? This one-year graduate Higher Diploma programme is designed for graduates of non-business disciplines in order to equip them with the necessary knowledge and competencies for management in business. It will provide graduates with an in-depth understanding of the contemporary business environment. The programme will enable graduates to further develop, consolidate and synthesize their knowledge and skills through experience, professional and/or academic education and improve their overall employment prospects.	What follow-on study opportunities are available? This programme will give graduates the basis and maturity to proceed to the MBA or MB taught part-time programmes depending on their general business experience.	Exam information Modules completed in Term 1 will, where applicable be examined in early December 2021. Modules completed in Term 2 will, where applicable, be examined in May 2022.	What subject areas will I study? Management Accounting Corporate Governance and Business Practice Strategic Human Resource Management Work based research project International Business Strategic Management NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.
Entry requirements	Grades with Level 8 qualifications. Other applicants will be considered on a case-by-case basis through completion of the Recognition of Prior Learning (RPL). IT Carlow reserves the right to require applicants to attend for an interview to determine their suitability for the programme.	 A photograph showing a man in a blue sweater and jeans pointing at a whiteboard with a red marker. He is gesturing towards a flowchart on the board. A woman with long blonde hair, wearing a pink top, stands behind him, looking at the board. The whiteboard contains various boxes and arrows representing a process flow, with terms like 'SUBMITTED', 'ACCEPT JOB', 'TL', 'INVESTIGATION CONDUCTED', 'CLIENT APPROVE', 'CLIENT RESOURCES', 'CLIENT RESOURCES QUALITIES', 'IN QA', 'COMPLETE QA', and 'OFF APPROVAL' visible.		

Higher Diploma Business in Tourism Marketing

Refer to pages
101-103 for full
course listings

NFQ LEVEL 8

LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	LOCATION WICKLOW	DURATION 1 YEAR – PART-TIME	COURSE CODE CWW12 (HDip)	
--	--------------------------------	---	--	--

What subject areas will I study?

Marketing and Brand Communications
Online Marketing Strategy and Practice
Management and Financial Planning
Work Based Research Project
Tourism Operations
Strategic Tourism Marketing

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

What is the programme about?

This is a one-year Higher Diploma designed for those who would like to change career, or who may already be employed in the tourism industry. As the economy continues to recover, more graduates will be required to work in the tourism sector. This programme addresses the need for graduates with knowledge in the area of culture, tourism operations, marketing (including e-marketing) and general business.

What will I be able to do when I finish the programme?

On completion of the programme, students should be able to:

- Demonstrate in-depth knowledge, skills and competencies in strategic planning and sustainable development of tourism management (business and services) in the context of location, resources and markets.

- Analyse frameworks to provide both theory and practical tools of information in Business and Tourism Marketing.

- Understand the linkage between competitive dynamics, macro and micro economics and the economic benefit to the tourism industry.

What follow-on study opportunities are available?

This programme will give graduates the basis and maturity to proceed to the Master of Business or, the MSc in Digital Marketing taught part-time programmes, depending on their general business experience.

Potential employment opportunities

- Travel Agent
- Customer Service Assistant/Manager
- Supervisor/Team manager
- Tour Manager
- Tourist Guide
- Tourist Information Centre Assistant
- Other tourism related commercial operations.



Entry requirements

Applicants require an NFQ Level 7 or 8 Major Award in business or a level 8 Major Award in a non-business area for entry to this programme. Other applicants will be considered on an individual basis in accordance with the Institute policy on Recognition of Prior Learning (RPL). IT Carlow reserve the right to require applicants to attend for interview to determine their suitability for the programme.

Higher Diploma in Arts Digital Media Design

COURSE CODE
CWW08 (HDip)

DURATION
1 YEAR – PART-TIME

LOCATION
WICKLOW

LIFELONG LEARNING MANAGER

Eoin O'Brien
BA, DBS, CBS, Cert Mgmt, MBA
E: eoin.obrien@itcarlow.ie

What is the programme about?

Digital media takes its roots from graphic design, where messages are translated into a captivating experience, using an array of communication forms. Students will create projects in graphic design (typography, illustration, branding, packaging and advertising) and digital media (websites, animation and interactive design).

What will I be able to do when I finish this programme?

The main aim of this programme is to facilitate the transformation of the novice student into a creative practitioner in digital media design. The programme provides an integrated learning environment (studio) that encourages creativity, innovation, self-assessment and discussion. Learning and assessment is through "real world" practices, which involve setting project briefs in a project/problem-based learning environment.

Potential employment opportunities

Students will develop a portfolio of works to include designs in digital media and graphic design. Through a transformative process, students will become creative practitioners and developing skills in: creative problem solving, design principles and practices, project management, communication and collaboration, technical design skills, marketing and entrepreneurship. They will experiment and explore new ideas and concepts and integrate theories and methodologies to develop design solutions. A good designer should display personal qualities of ambition, curiosity, energy, enthusiasm, imagination, initiative and talent.

Career opportunities include:

- Digital Media Designer
- Graphic Designer
- UX/UI Designer
- Web Designer
- Animation
- Interactive and Multi-media Design
- Mobile Media Technologies.

What subject areas will I study?

Entrepreneurship
Creative Studio
Digital Media Design
Web Design Methods
Marketing Management

NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.

Entry requirements

Applicants must currently hold a Level 8 degree. Applications not covered under the above criteria will be considered on an individual basis, through submission of a portfolio of prior work or by an RPL procedure in accordance with the IT Carlow Recognition of Prior Learning Policy. All applicants will be considered on a case-by-case basis. IT Carlow reserves the right to require applicants to attend for interview to determine their suitability for the programme.



Master of Arts Child, Youth and Family Studies

Refer to pages
101-103 for full
course listings

NFQ LEVEL 9

LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	LOCATION WICKLOW	DURATION 1 YEAR – PART-TIME	COURSE CODES CWW01 (MA) CWW02 (PGDip)	
What subject areas will I study? <hr/> <p>Contemporary issues in Childhood and Youth Studies Applied Psychology Perspectives on Family and Society Leadership, Strategy and Governance Research Methods and Dissertation Elective Subjects Addiction Studies Adult and Community Education Youth Justice Child and Family Rights</p> <p>NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.</p>		What is the programme about? <p>The Master of Arts in Child, Youth and Family Studies provides learners with a range of critical and analytical tools to enable them to manage and lead services that develop the potential of children, youth and families and envision new possibilities for better service provision in the sector. The programme is designed to provide the knowledge, skills and competencies required by the sector and to provide future leaders of Child, Youth and Family services in Ireland and abroad.</p> <p>The programme aims to educate learners to high levels of contemporary and comparative theoretical awareness in fields central to services provision (transitions across the life span, cultural diversity, youth and families) and to create an atmosphere of rigorous academic enquiry and writing. Learners will develop a deep and integrated knowledge of contemporary child, youth and family theory and practice, and the sector within which child, youth and family services operate.</p> <p>What will I be able to do when I finish the programme?</p> <p>Graduates may also adopt research and advisory roles in relation to the development and planning of such services. Graduates will be in a position to critically evaluate existing services and programmes and to visualise future possibilities for better service provision.</p>		
		<p>opportunity to gain a competitive edge prior to embarking on a career in these fields or in the field of academia.</p> <p>What follow-on study opportunities are available?</p> <p>Graduates of the programme may progress to a PhD programme of study in the discipline areas, in Ireland or abroad. Graduates of the programme may also be eligible to progress to a professional doctorate in the field of Child, Youth and Family Studies in both Irish and international Institutions.</p> <p>Potential employment opportunities</p> <ul style="list-style-type: none"> Community based organisations and projects both at a voluntary and statutory capacity National rights focused organisations and advisory groups Family support services Services catering for the care, education and advocacy of children and families in society. <p>Graduates may also adopt research and advisory roles in relation to development and planning for such services. Graduates will be in a position to critically evaluate existing services and programmes and to visualise future possibilities for better service provision.</p>		
<h2>Entry requirements</h2> <p>Programme participants are required to hold a Level 8 degree (with a minimum of 2nd Class Honours) in the following areas:</p> <ul style="list-style-type: none"> Early Childhood Education and Care Applied Social Studies Social and Community Studies Youth and Community <p>or a primary Level 8 degree in Social Sciences or cognate area (minimum 2nd class honours).</p> <p>Candidates with significant experience in the social sciences (as determined by IT Carlow's Recognised Prior Learning (RPL) policy), in addition to an honours primary degree in another discipline area may also be considered for entry.</p> <p>Applicants applying for entry via routes other than those listed above will be considered on a case-by-case basis and in accordance with IT Carlow's Recognised Prior Learning (RPL) policy.</p>				

Master of Arts Leadership in Early Years Education and Care

	COURSE CODES CWW05 (MA) CWW06 (PGDip)	DURATION 2 YEARS – PART-TIME	LOCATION WICKLOW	LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	
What is the programme about?		<p>Early Years Education and Care is a rapidly growing area in Ireland. This programme has been designed to facilitate and prepare students and current practitioners or those with an interest in early childhood education for leadership and management roles in the operation of early childhood education services and related public policy. This Masters programme will develop students' ability to both analyse, manage and creatively respond to critical issues and changes in early childhood care policy and service implementation, all the time being cognisant of the best interests of the child.</p>			
What will I be able to do when I finish this programme?		<ul style="list-style-type: none"> • Demonstrate an in-depth knowledge of the underlying theories and key concepts with a focus on leadership and critical assessment skills within an Irish and International context; • Analyse the current theories, concepts, challenges and research areas with an ability to solve complex problems through a variety of reflective and participatory work; 			
What follow-on study opportunities are available?		<p>Graduates of the programme may progress to a PhD programme of study in the discipline areas, in Ireland or abroad. Graduates of the programme may also be eligible to progress to a professional doctorate in the field of teaching and learning in both Irish and international Institutions.</p>			
Potential employment opportunities		<p>This is an ideal postgraduate programme for students or current practitioners within the early childhood education sector who are interested in becoming an administrator, director or manager of early childhood education programs. It is also suitable for those interested in advisory, mentoring and inspection roles within the sector.</p>			
<p>Entry requirements</p> <p>Entry requirements are a Level 8 degree, with a minimum of Second Class Honours, Grade 2 or equivalent in the following areas:</p> <ul style="list-style-type: none"> • Early Childhood Education and Care • Applied Social Studies • Social and Community Studies • Youth and Community Work • Social Sciences or cognate area <p>Candidates with significant experience in the social sciences (as determined by IT Carlow's Recognised Prior Learning (RPL) policy), in addition to an honours primary degree in another discipline area may also be considered for entry.</p> <p>Applicants applying for entry via routes other than those listed above will be considered on a case-by-case basis and in accordance with IT Carlow's Recognised Prior Learning (RPL) policy.</p>					
<p>What subject areas will I study?</p> <p>Contemporary Issues in Early Years Policy, Theory and Practice Leading Quality in Early Years Education and Care Leadership, Strategy and Governance Research Methods and Dissertation Transformative Children's Rights Education Educational Psychology Early Years Entrepreneurship and Innovation</p> <p>NOTE: Specific modules may be subject to amendment after our 2021 programmatic review..</p> <p><i>Right from the Start- Report of the Expert Advisory Group on the Early Years Strategy, September 2013.</i></p> <p>Department of Children and Youth Affairs</p> <p>This report looks at the growing requirements of a rapidly expanding sector in a population with "over 480,000 children aged 0-6, representing 11% of the population" which is set to increase by between 17-20% by 2021 and the importance of having a policy for the youngest members of society. The report notes that "only 12% of those working in early childhood care and education services in Ireland have Degree-level qualifications (Pobal, 2013)", while the CoRe report has set out an EU benchmark of at least 60% of those working in this area who "should be graduates", "including equally those working with under-3s and those working with over-3s." A competent quality based systems calls for competent practitioners, which requires "a qualified workforce at all levels, which includes trainers, managers and inspectors."</p> 					

Higher Diploma in Arts Early Childhood Education and Care

Refer to pages 101-103 for full course listings

NFQ LEVEL 8

LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie	LOCATION WICKLOW	DURATION 1 YEAR – PART-TIME	COURSE CODE CWW09 (HDip)	
What subject areas will I study? <hr/> Pedagogy and Curriculum Outdoor and After School Education and Care Children's Literature in Early Childhood Literacy, Numeracy, Science and Technology in Early Childhood Education and Care Leading Contemporary and Quality Practice Visual Arts in Early Childhood Work based learning for ECEC Philosophy in Early Childhood Education NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.	What is the programme about? <p>This programme provides an opportunity for students to study for a one-year Higher Diploma in Early Childhood Education and Care. This programme is being offered as a direct response to the introduction of the free school year in Early Childhood Education and Care (ECCE scheme) by the Department of Children and Youth Affairs and to address the upskilling needs of the sector. This programme is designed for graduates who are working in the Early Childcare sector and who do not hold the necessary qualification for the ECCE scheme. All successful applicants will have to complete 500 hours of Supervised Professional Practice as part of this Higher Diploma.</p>	What will I be able to do when I finish the programme? <p>On completion of this programme, students will be equipped with sufficient knowledge and skills in early childhood education and care to enable them to make a professional contribution to early childhood education and care, nationally and internationally.</p>	Special Features of this programme <p>All learners must complete 500 hours of supervised professional practice in the Early Childhood Education and Care sector as part of this programme.</p>	Exam information <p>Modules completed in Term 1 will, where applicable, be examined in early December 2021. Modules completed in Term 2 will, where applicable, be examined in May 2022.</p>



Entry requirements

To be eligible for consideration for this Higher Diploma in Early Childhood Education and Care, an applicant must hold a minimum Level 7 relevant major qualification and be working in the early years' sector. Garda vetting is required for this programme. Offers are conditional and may be withdrawn if applicants do not meet the Garda Vetting requirements. All applicants will be considered on a case-by-case basis. The Faculty reserves the right to require applicants to attend for an interview to determine their suitability for the programme.

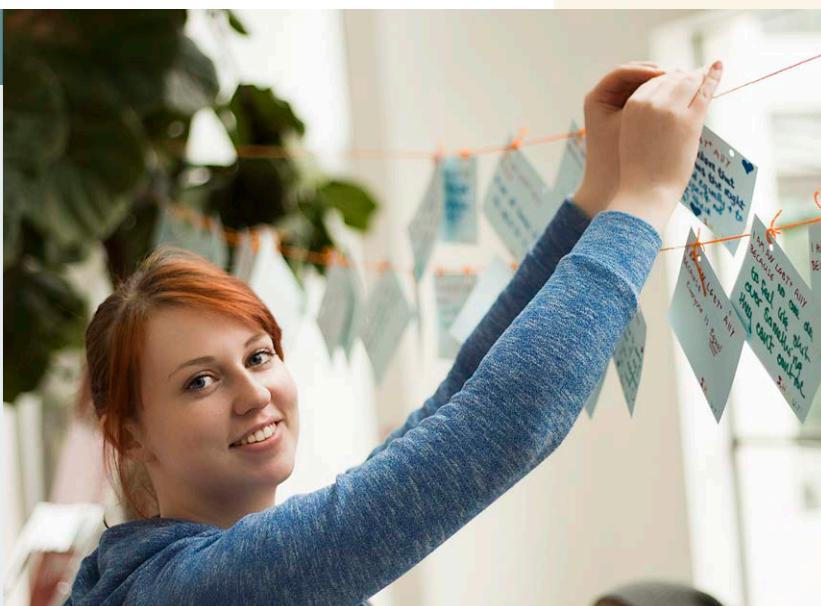
Higher Diploma in Arts **Applied Social Studies (Professional Social Care)**

	COURSE CODE CWW10 (HDip)	DURATION 1 YEAR – PART-TIME	LOCATION WICKLOW	LIFELONG LEARNING MANAGER Eoin O'Brien BA, DBS, CBS, Cert Mgmt, MBA E: eoin.obrien@itcarlow.ie
	What is the programme about? This programme provides an opportunity for students to study for a one-year Higher Diploma in Applied Social Studies. The programme allows people to qualify as Social Care Workers. It is designed for graduates of non-Social Care disciplines who are working or wish to work in the Social Care sector. Successful applicants must undertake 800 hours of supervised professional practice as part of this Higher Diploma.	Special Features of this programme Learners on this programme must complete 800 hours of Supervised Professional Practise in the Social Care sector.	What subject areas will I study? Introduction to Social Care Protection of Children and Vulnerable Persons Disability Services Ageing Studies Alternative to Home Care Children and Families Creative Skills 2 Supervised Practice - Work based learning	
	What will I be able to do when I finish the programme? On completion of this programme, students should be equipped with sufficient knowledge and skills in Applied Social Studies to enable them to make a professional contribution to social care nationally and internationally.	Exam information Modules completed in Term 1 will, where applicable, be examined in early December 2021. Modules completed in Term 2 will, where applicable, be examined in May 2022.	NOTE: Specific modules may be subject to amendment after our 2021 programmatic review.	

Entry requirements

Applicants should be working in Social Care and should note that when the CORU register opens in October 2023, graduates of this programme will be applying under grandparenting and must be able to demonstrate that they have worked for at least 2 of the previous 5 years in Social Care to that point.

Applicants must hold a minimum Level 8 qualification in a non-social care area. Garda vetting is required for this programme. Offers are conditional and may be withdrawn if applicants do not meet the Garda Vetting requirements. All applicants will be considered on a case-by-case basis. IT Carlow reserves the right to require applicants to attend for an interview to determine their suitability for the programme.





POSTGRADUATE PROFILES

Lisa Daxenbichler

Corporate HR Controlling EGGER - More from Wood

Master of Business



'The Master of Business in Institute of Technology Carlow has really enhanced both my academic and my professional life. Academically, I really learned how to reflect critically on theories and apply theories to real world problems.'

After finishing my work placement in a big international company, I found a job in Procurement with a consumer electronics distributor. Professionally, this programme has prepared me for the real world and above all has taught me to think critically.'

Rachel Mulhall

Supply Chain Management



What did you like about the course?

The course was fantastic, as it covered a broad range of topics in relation to supply chain management from logistics, to procurement and finance. The lecturers were very engaging, and throughout our classes, real life examples were used to give us a greater insight into different supply chains and operations.

What are you doing now?

Currently I am on a 3 year supply chain graduate programme, in which I will rotate into different roles along the supply chain. These rotations will be in logistics, procurement and planning. I am currently working in logistics as my first rotation.

How did the course prepare you for the job you are doing now?

The course allowed me to gain an understanding of the whole supply chain, end-to-end, which I can then apply in my everyday job. As part of the course, we also completed a dissertation. By doing this research project, it gave us the understanding of how to break down a supply.

Kate Gaynor

Managing Director, Advanced Coating Technology Ltd., Carlow

Master of Business Administration



I have worked in my family's paint business for most of my life. I did a post-grad in Business in 2007 in Dublin, but the course wasn't as practical as I would have liked. When I was working in the family business I knew there were gaps in my skill set.

I took over the running of the family business in 2011 and started the MBA in IT Carlow in September 2012 in order to assist me in managing areas of the business in which I had less experience, training, or interest in.

How has the MBA helped you with your career?

The MBA was invaluable to me. The benefits were threefold:

- It increased my academic and practical knowledge of business
- I gained invaluable business contacts that I could rely on for advice in the future
- It improved my confidence and my ability as a leader in my company

Would you recommend this programme to others?

Definitely. The MBA is a very academic but also a very practical course. I don't know any other course like it. I can't recommend it highly enough. An MBA will bring you places that other courses will not.

Prashant Kumar

Supply Chain Analyst, PerformanSC

Master of Business



'The Master in Business programme allowed me to gain insights into different streams of Industry. My core area is supply chain management but this programme gave me the leverage to integrate finance and marketing with supply chain management. It also helped me to develop an in-depth understanding of critical writing and critical thinking as well as overcoming a fear of presentations and public speaking. In addition, it helped develop my management and interpersonal skills.'

The Master in Business programme provided me with a work placement that led to an internship and, ultimately, a full time role at PerformanSC.'

Jenny Sherwin

MBA in Professional Arts Management

'Participating in the MBA in Professional Arts Management has allowed me to reflect critically on my practice as an arts manager, and to participate in lively discussion in relation to contemporary cultural issues. The practical reporting methodologies and effective management principles covered on the MBA programme were balanced with stimulating presentations concerning cultural aesthetics.'

Eva McSweeney

Owner/Head Designer - Gold House Design, The White Studio

Master of Arts in Interaction Design



'The Master of Arts in Interaction Design helped me immensely in my career; it helped to focus me towards the exciting new field of User Experience Design and opened up many doors for me. Throughout the MA programme we learned the value of human centric design alongside the key technology and problem solving skills needed in this area. Working on both collaborative and individual projects we gained a real understanding of how Design Houses run their projects. The interaction design field is exploding right now with job opportunities appearing almost everywhere as it is the practice of designing for technology, interactive digital products, environments, systems and services. I have learned some very much sought after design skills through this Masters programme.'

Ger Dunne

Head of Performance Analysis, FAI (Football Association of Ireland)

MSc in Sports Performance Analysis

'As a student on the MSc in Sports Performance Analysis in Institute of Technology Carlow, I have learned a whole new range of skills that I can apply to my job as Head Performance Analyst with the FAI. I now have more tools available to me and with the excellent tutors and students, we have all grown significantly over the past year. The course has also improved my research knowledge, which I now find invaluable.'

Allison Ryder

Founder and Marketing Strategist, eConsult Ireland

Master of Science in Digital Marketing



How has the MSc in Digital Marketing helped you with your career?

Achieving the MSc in Digital Marketing has given me the knowledge, skills and confidence to set up my own business, offering digital marketing services to SMEs (small to medium-sized enterprises) and large enterprises. Having a Masters degree definitely gives you an edge and clients are reassured that you are up to speed in this rapidly changing marketplace.

Would you recommend this course ?

I would recommend the MSc in Digital Marketing to anyone wishing to place themselves at a competitive advantage in the jobs market. It is a course that delivers a great mix of practical digital skills as well as the strategic mind-set needed to be able to apply the right tactics within your job.

Vishnu Vardhan Reddy Yannam

Technical Support - Unity Technologies

Master of Science in Information Technology Management



I recommend this course to everyone, especially if they are working in the ICT Industry. It gives a better view on how to innovate, integrate and manage IT Resources. This course helped me to find a career in ICT.

Kevin McGuigan

Performance Analyst - Sport Northern Ireland Sports Institute

MSc in Sports Performance Analysis

'The course gave me an excellent grounding in both the theory and practical aspects of sports performance analysis through excellent teaching. I have gained new skills and knowledge by doing the course, and I apply this to my provision when working with elite athletes.'

POSTGRADUATE RESEARCH MASTERS AND DOCTORAL DEGREES



Research, Development and Innovation	80
President's Research Fellowship Programme	81
designCORE	82
eduCORE	83
engCORE	84
enviroCORE	85
healthCORE	86
gameCORE	87
socialCORE	88
Business Research Centre	90



Research Development and Innovation

Institute of Technology Carlow

Research, Development and Innovation

Institute of Technology Carlow offers postgraduate research supervision for both research masters and doctoral degree candidates (NFQ levels 9 and 10). Research supervision is closely tied to the priorities and expertise of staff attached to specialist research centres at Institute of Technology Carlow. Research, Development and Innovation (RDI) is an integral part of Institute of Technology Carlow's activities and is a vital aspect of its interaction with industry and other research centres both nationally and internationally. RDI activity is driven and delivered through the Research Centres of designCORE, engCORE, enviroCORE, healthCORE, gameCORE, socialCORE, eduCORE and the Business and Humanities Research Centre.

To keep up-to-date with our current research activities and opportunities, log on to the **Research** section of our website.

Facilities

The Dargan Centre for Research and Innovation provides an integrated, high quality physical research environment for academic staff researchers, postgraduate research students, postdoctoral researchers and the administrative and management staff associated with the development and delivery of high priority areas for research companies. The centre is also home to the Enterprise Ireland's Design+ Applied Design Technology Gateway.

The Dargan Centre represents Institute of Technology Carlow's commitment to research, development and innovation in the region through the development of collaborations with industry, other research institutions and funding organisations.

For further information, contact Head of Postgraduate Studies:

Dr Brian Jackson
E: brian.jackson@itcarlow.ie



President's Research Fellowship Programme

Institute of Technology Carlow encourages academic excellence with a range of Postgraduate Research Fellowships which are offered annually to recent, appropriately qualified graduates. The Fellowship Programme attracts new researchers to a range of exciting and challenging research projects in dynamic environments under the supervision of successful and established principal investigators. All of the Research COREs (Centres of Research and Enterprise) and Research Centres that offer opportunities under the programme have demonstrated the real potential of these Fellowships to contribute to research excellence through challenging and original Masters research projects supported by excellent supervision.

Fellowship opportunities span the academic disciplines and include research opportunities within each of the listed research groups. Candidates with a first or upper second class honours degree are eligible to apply for project funding under this scheme.

The following pages outline the current research interests areas of our Research COREs.



designCORE is a design research centre, based in the Department of Humanities, within the Faculty of Business and Humanities.

designCORE itself is a multi-disciplinary collective of faculty, academic and practice-based design researchers, engaged primarily in design research in the broad range of products, services and systems which affect people. We seek to push the boundaries of the design discipline through rigorous and deep evidence-based research action. Using design-led approach in method, process, practice for knowledge creation, we seek to lead the field within our disciplinary area. Our design research approach seeks to inform policy, enhance society, and frame early stage design development in industry for sustained social and economic growth.

designCORE continually broadens its research, industry, and agency collaborations to achieve the highest level of critical, creative, innovative, academic, social and commercial impact.

Current research includes:

- User behaviour and interaction;
- Social design;
- Design for ageing and demographic change and design for ageing;
- Design process in regional development;
- Practice-based learning;
- Design methodologies and design management;
- Rapid manufacturing and agile design.

designCORE offers Level 9 Master by research opportunity, MA programmes in Design, and Institute of Technology Carlow has indicated to QQI its intention to extend provision of design research to awards at NFQ Level 10, for which formal application will be made in the academic session 2021/2022.

For further information, contact:

Colin Deevy
E: colin.deevy@itcarlow.ie

or

Dr Brian Casey
E: brian.casey@itcarlow.ie



eduCORE is the Institute of Technology Carlow's research centre for educational research. It offers research degrees at Level 9 and encourages collaborative, exploratory, and multidisciplinary perspectives. It is focussed on developing an inclusive and collaborative space for all researchers and faculty and reflecting on teaching and learning to meet the needs of socio-cultural and educational change in Ireland and beyond. In this way **eduCORE** aims to support the ever-evolving fields of practice and research.

eduCORE's aims include:

- To enhance the educational experience of all students;
- To encourage reflective practice and a sense of curiosity amongst all practitioners and researchers;
- To create opportunities to support the dissemination of educational research output;
- To cultivate a truly inclusive and diverse research culture throughout the Institute.

The **eduCORE** team includes researchers and professionals with diverse skills and expertise from across the Institute. The specialisms and research themes of our team include adult education, digital pedagogy, technology enhanced learning, educational policy, curriculum theory, sociology of education, and equality, diversity and inclusion in education.

Some current MA Education research projects include:

- Inclusive Pedagogy, Migrant Rights and Access to Higher Education. An examination of policies and pedagogies which affect access to Higher Education for migrant groups;
- Mature Students' perspectives on Higher Education.

For further information, or to discuss the possibility of pursuing a postgraduate degree in education, please contact:

Dr Susan Flynn
[E: susan.flynn@itcarlow.ie](mailto:susan.flynn@itcarlow.ie)



engCORE is the focal point for the research interests of staff attached to Institute of Technology Carlow's Faculty of Engineering. **engCORE** brings together researchers from a range of knowledge domains to create, advance, and disseminate new technologies through industry focused research. Key research themes are closely aligned to identified areas of national priority including:

- **Smart Materials and Mechanics** encompassing mechanical design, finite element analysis, 3D printing and material analysis;
- **Circuits and Systems** encompassing ASIC design, embedded systems and internet of things (IoT), electric machines and instrumentation;
- **The Sustainable Built Environment** encompassing soil mechanics, sustainable energy for the built environment, civil engineering and architectural design.

Current research projects include:

- AVOID, a collision avoidance system for ground support equipment;
- Development of a CFD application tool to effect optimisation of Solids Separation in the Water and Wastewater Industry;

- Non-Invasive blood glucose testing utilising photoacoustic detection;
- Additive Manufacturing technology to produce components with embedded sensing capability;
- Acoustic source localisation of autonomous robotic agents;
- Assistive living using brain computer interfaces;
- The thermo-analysis of electromagnetic coils in electric machines;
- Comparative study of the relative economics of energy production from lignocellulosic and grass biomass fuel in Ireland;
- An investigation of the viability and effectiveness of using BIM in an emergency application which aids first responders in emergency events, with particular emphasis on the first responders in the Fire Service.

For further information, contact:

Dr Dean Callaghan
E: dean.callaghan@itcarlow.ie
or
Dr Nigel Kent
E: nigel.kent@itcarlow.ie



enviroCORE is host to researchers from the Department of Science and Health. The research centre is focused on the development of environmental technologies that offer innovative solutions to environmental problems and that support sustainable economic and social development.

Research themes include:

- Plant and microbial technologies for waste treatment;
- Biomass production and biotransformations;
- Environmental bioindicators, biosensors and biomarkers;
- Ecology, biodiversity and natural resources.

Some current research projects include:

- Development of novel bioplastics as a means of a sustainable waste management solution.
- Improving biogas production in anaerobic digesters.
- Investigating the phenotypic and genetic characteristics of invasive plant species.
- Improving remediation technologies for treatment of contaminated soils.
- Assessing the ecological impact of novel fertilisers for sustainable soil nutrition.
- Characterisation of microplastics in Irish Freshwater ecosystems.

- Lignocellulose degradation in mushroom substrate by Agaricus bisporus.
- Assessing water quality in motorway lagoons.
- Development of sustainable plant parasitic nematode management approaches.
- The impact of glyphosate herbicide on the environment.

enviroCORE's research aligns with the Irish Government Research Priority Areas, relating to food, energy, climate action and sustainability. Similarly, it aligns with the UN Sustainable Development Goals, specifically, SDG 2 (Zero Hunger), SDG 6 (Clean Water and Sanitation), SDG 7 (Affordable and Clean Energy), SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production), SDG 12 (Climate Action), SDG 14 (Life Below Water) and SDG 15 (Life on Land). enviroCORE works with industry, local authorities, government agencies, schools and citizen groups, as there is a strong element of community engagement and outreach embedded in its research approach and ethos.

For further information, contact:

Dr Thomae Kakouli-Durate
E: thomae.kakouli@itcarlow.ie

or
Dr Kieran Germaine
E: kieran.germaine@itcarlow.ie



healthCORE is a new and vibrant research group that offers research degree programmes at Level 9 and Level 10 and comprises three specific areas within the broad domain of the health sciences and wellbeing:

- Men's Health
- Rehabilitation and Health
- Exercise, Sport and Heath.

healthCORE seeks to align itself to national and international research priorities, to inform health policy and practice, and to optimise health and wellbeing in key target population groups:

- (i) Dissemination targets: peer-reviewed publications/conference presentations
- (ii) External Funding targets: SFI, HRB, Inspire, HSE and Governing Bodies (NGBs) of Sport, ERASMUS+ and the IRC (Irish Research Council)
- (iii) Developing crossover research and research supervision in areas of interest between the three CORE streams, e.g.:
 - Obesity
 - Primary prevention of chronic disease
 - Health and safety

(iv) Leverage existing collaborations with:

- HSE
- Sports Council
- National Sports Partnerships

(v) Develop research and programme collaborations across the regional cluster.

Members of the CORE are drawn from the Department of Science and Health.

For further information, contact:

Dr Noel Richardson
E: noel.richardson@itcarlow.ie



gameCORE conducts both pure and applied research in three main areas:

- **Games and Learning**

Gamification, Game Based Learning, Game Design and Development, Technology Enhanced Learning.

- **Data Science**

AI and Machine Learning, Data Analysis and Visualization.

- **Networks and Security**

Cybersecurity, Blockchains, and Network Design and Management, and Internet of Things (IoT), and Ambient Assisted Living (AAL).

gameCORE also has strong links with industry, and has been involved with numerous collaborations, largely funded by Enterprise Ireland and the Irish Research Council.

For further information, such as exploring the possibility of doing an MSc or PhD in these or related areas, visit <https://gamecore.ie>.

Some current research projects include:

- Teaching Interdisciplinary Human Centred Design to Improve Patient Quality of Life.
- Gaming in Corporate Learning Environments.

- Use of Game Elements to Aid in the Development of Student Employability Skills.
- The Effect of Gamification on Internalising Coding Standards.
- Using Game Elements to Guide the Journey of the Postgraduate Research Students.
- The Tracking, Modeling, and Predictive Analysis of Learner Behaviour Towards More Effective Learner Behaviours and Online Courses.
- Blockchains and Decentralised Exchanges: The Implications for User Privacy.
- An Investigation of Dynamic Temperature Monitoring and Control in Modular Data Centres – Initially Using Infrared Thermography (IRT) and a Novel Machine-learning Framework to Improve Efficiency.
- Market-Oriented Resource Management for Embedding Network Slices.

For further information, contact gameCORE:

Dr Daire Ó Broin

or

Dr Chris Meudec

E: gamecore@itcarlow.ie



socialCORE aims to contribute to the body of knowledge in the Social and Human Sciences and be at the forefront in the growth of evidence based practice within the Southeast. **socialCORE** also seeks to disseminate research, which will support the professionalisation of sectors such as Youth Work, Social Care and Early Childhood Education and Care, inform policy and drive social change. Research within **socialCORE** is practice-based/applied in nature with a focus on impact, relevance and policy development in the areas of practice, disability, mental health and education. It is envisaged that **socialCORE** through its strong links with placement agencies and other IoT's and Universities, will be the Research Centre of Excellence in the Southeast and foster an environment of discovery and collaboration with agency partners to achieve the highest level of innovation, creativity and critical understanding of evidence based practice through flexible research designs and mixed methods approaches combining both qualitative and quantitative research designs.

Recent research topics has had implications for education, practice and the provision of care and services in the areas of Social Care, Youth and Early Childhood Education and Care including:

- Embedding children's rights in Early Childhood Education and Care practice.
- Assessing the role of Aistear (the National Curriculum Framework for Early Childhood Education) and Siolta (the National Quality Framework) in the development and support of outdoor play in early years' settings.
- An exploration of play as a means of enriching baby (birth - 18 months) - Adult interactions in Early Childhood settings in the South East.
- The role of Aistear and Siolta in the provision of Early Childhood services.
- The impact of vicarious trauma on Social Care workers and its implications for practice.
- The use of Social Media in providing care to Social Care clients and the development of policies around its use.
- The use of assistance/service dogs from a human rights and animal welfare perspective.
- An evaluation of the Housing First approach from clients and practitioners perspective.

- An investigation of the use of peer led support services for people experiencing mental health difficulties.
- Media representations of youth and young people in Ireland.
- An investigation into the experiences of professionally qualified youth workers employed in Social Care settings.
- Online discussion as assessment in Social Care education.
- The importance and development of emotional intelligence in education settings.
- Gaming as Youth Work: Exploring the Role of Gaming as a Creative Tool for Fostering Social and Emotional Learning among Socially Isolated Young People
- Education for Sustainable Development in the ECEC: A children's rights perspective
- The experience of young care leavers
- Professional regulation of Irish social care practitioners: the perspectives of social care students..

Institute of Technology Carlow are also working towards obtaining provision of the Social Science research programmes at NFQ Level 10, for which a formal application will be made in the academic session 2020/2021.

For further information, contact:

Dr Niamh McCrea
E: niamh.mccrea@itcarlow.ie



Business Research Centre

The Faculty of Business and Humanities hosts active research clusters in the areas of:

- Business (with a particular focus on SMEs);
- Marketing;
- Supply Chain Management;
- Sports performance analysis;
- Law.

Each of these areas, while distinct in its own right, offers potential for crossdisciplinary and collaborative research opportunities both within and beyond the Faculty as expertise and capacity is established and develops.

Research is primarily practice-based and applied in nature with a focus on impact and relevance. It is often partner-centric, conducted alongside or in collaboration with industry or sectoral organisations or bodies.

The Faculty of Business and Humanities offers a broad portfolio of taught and research programmes at NFQ Level 9.

Recent research projects have included studies of:

- The potential for collaborative approaches to working capital management to strengthen supply chain performance;
- Evaluating the potential for collaborative approaches to working capital management to strengthen supply chain performance;
- Supply chain practices and the potential for application of the SCOR model in SME's in south-east Ireland with particular reference to perfect order fulfilment;
- Market-orientated organisational culture.

For further information, contact:

Dr Martin Meagher
E: martin.meagher@itcarlow.ie



LIFE AT INSTITUTE OF TECHNOLOGY CARLOW

Your Success Is Our Success



Institute of Technology Carlow Facilities	92
International Office	94
Carlow Town	96
Wexford Campus and Town	97
Wicklow Campus and Town	98
Dates for Your Diary	99
Key Contact Details	100



Institute of Technology Carlow Facilities

Campus Infrastructure and Facilities

Institute of Technology continues to invest in its infrastructure to ensure students enjoy a first-class learning environment. A €150 million campus development plan is currently underway. Since 2012, four major building projects have been completed, the Barrow Centre (Student Facilities and Sports Centre, the Dargan Centre for Research, the Aerospace Centre, and the Haughton Building (Facilities for Teaching and Learning). In addition, a new 40-acre sports campus is also in development.

Our Learning Services Centre includes: 1,200 learner computer stations; purpose built science, engineering and aeronautical laboratories; TV and radio studio product design suite; games development suite; and an aerospace centre. Our Learning Resource Centre provides extensive library facilities for students including book lending, individual and group study facilities, photocopying machines, assistance in finding information, language materials, and access to online databases including access to a large collection of online items including Journals, Ebooks and Data Sets. It also provides, lending facilities for physical items in the permanent collection and through inter-library loan with the major Irish and UK repository Libraries.

Computing Services Department

The Computing Services Department provides ICT services for staff and students of the Institute. Students have access to:

- more than 1500 PCs distributed in laboratories and open access areas around the campus. All PCs have full broadband connectivity.
- specialist Apple Mac labs for high performance media processing.
- dedicated laboratories and equipment for: architectural graphics; 3-D modelling and design; languages; computing and networking project work; IC fabrication and design; AutoCAD; sports science; pharmacy; games development; avionics and multimedia development.
- a wide range of application software, ranging from industry standard to more specialised development packages.
- a managed print and photocopying service with access to A3/A4 colour print, photocopying and scanning facilities located throughout the Learning Resource Centre.
- wide format and poster quality plotting facilities.
- WiFi access for users of mobile devices including: iPhones, iPads, smartphones and laptops.
- free Institute of Technology Carlow e-mail account on the Microsoft Office 365 Professional Suite.
- a walk-in help desk facility to help students with any technical issues relating to the above services.



The Institute has adopted the "Blackboard" virtual learning environment enabling students to access course material, take assessments, view class announcements and participate in online discussions or tutorial sessions, remotely or on campus.

Blackboard is also available as an app to students on Apple or Android mobile devices.

A Vibrant Student Community

Institute of Technology Carlow has a vibrant and active student community with hundreds of students involved in clubs and societies as diverse as skydiving, drama, music, soccer, dance, hillwalking, martial arts, as well as an extensive range of sports clubs.

Centre of Sporting Excellence

Institute of Technology Carlow has established itself as a centre of sporting excellence within the south-east region. The state-of-the-art facilities make it among the best equipped centres for strength, conditioning, fitness and sport. Our facilities provide an ideal training ground for elite athletes, college teams and the recreational users to enjoy and develop their sport.

The facilities include:

- Multi-purpose sports hall
- Health and fitness suite, with sauna-steam rooms
- High performance strength and conditioning gym
- Exercise studio
- Activity rooms

- Spinning room
- Performance analysis laboratory
- Rehabilitation therapy clinic.

The Gym is operated by professional fitness instructors who can provide personalised fitness programmes. Institute of Technology Carlow also boasts an ultra-modern high performance training centre. This facility is the ideal training centre for elite athletes to maintain and improve their strength and power.

In addition to the internal facilities, the external grounds have been developed to include:

- Two full-size sand based flood-lit Gaelic football pitches
- A full-size rugby pitch
- A full-size flood lit 4G soccer pitch
- Five all-weather 5-a-side / 7-a-side pitches
- A 150m tartan sprint track.

These facilities will be significantly enhanced by the new 40-acre South Sports Campus. The first phase of this development will be opened in September 2019.

Student Services

The new purpose-built Student Services Centre (Barrow Centre) houses a wide range of student supports, including: a health centre with full-time nursing service; meditation room; access service; careers service; counselling service, games area and Students' Union.



International Office



Our focus in the International Office is on your academic, personal and professional achievement within a supportive environment as provided by our dedicated and welcoming staff. We have international students from all over the world so there are many opportunities to make new friends in a multicultural study environment. Why not talk to our international team about any aspect of studying and living here in Carlow before you apply.

We provide a welcoming service to help new students settle in when they arrive. Our programme of events scheduled at induction provides information on everything, from student support services, facilities, societies and clubs, to cultural awareness and living in Ireland. Some of the key services we provide to support you in your studies here at Institute of Technology Carlow include:

- Pre-arrival information pack
- Free airport pickup
- Comprehensive induction week and registration support



- Information on our international society groups, activities and social events
- Free English language support classes
- Friendly, dedicated and personal support for any issues or queries you have in relation to visas and immigration, health, travel and working entitlements.

Learners also have access to our experienced career advisors who are here to help students prepare for, and get, the job they want. For more information on applying to Institute of Technology Carlow as an international student, go to the following link: <http://www.itcarlow.ie/international.htm>.

Language requirements

If English isn't your first language, you will need to demonstrate that you have a sufficient standard of English in order to successfully study in Ireland. For further details, refer to the international section of the Institute of Technology Carlow website.

You can also contact us on the following:

Telephone: (00) 353 59 917 5205

Email: international@itcarlow.ie

 ITCarlowInt

 @itcarlow_intl

 internationalcarlowit



Carlow Town

Carlow is a vibrant, bustling town with a population of over 20,000. The town enjoys a thriving arts and crafts community, an exciting nightlife, a strong tradition of Irish language, culture and festivals as well as a superb range of shops, boutiques and restaurants. Carlow is a student-centric town and is within easy walking distance of the Institute of Technology Carlow Campus and access to nationwide transport links. The modern name Carlow is derived from the old Irish place name Ceathar Loch, meaning 'four lakes'. Visitors to the area can enjoy its many pre-historic sites, castles, churches and monastic buildings and routes. The much-loved town park and town heritage trail provide good starting points for those new to the town. The ample waterways and mountains surrounding Carlow provide every opportunity for outdoor activities and adventures. Carlow is just 80km from Dublin city and 40km from Kilkenny city.

For thousands of students, Institute of Technology Carlow is where the third level education journey begins. Students and professionals alike can now continue on that exciting journey onto postgraduate Level 10 at Institute of Technology Carlow where learners will find all the support and encouragement they need to achieve their career goals. Led by highly qualified staff, partnered with key industry partners in different sectors, leading the way in various research, innovation and enterprise initiatives and networking with industry peers amongst your class mates are all part of the postgraduate experience at Institute of Technology Carlow. Find out more about becoming a postgraduate student by logging on to the Institute of Technology Carlow website: www.itcarlow.ie.



Wexford Campus and Town

Institute of Technology Carlow has offered programmes in its Wexford Campus since 1995. Degree programmes in business and humanities are taught at the campus at Summerhill Road, Wexford while the art programmes are located in the Wexford Campus Faculty of Art and Design at Hill Street, Wexford. Institute of Technology Carlow Wexford Campus offers an extensive range of award qualifications, from Level 6 through to postgraduate Level 9 on the national Framework of Qualifications (NFQ).

Institute of Technology Carlow has made a substantial investment in the student facilities in its Wexford Campus with plans for future campus expansion and development underway. Modern computing and library facilities have been developed and students also have access to the software and databases on the Institute of Technology Carlow Campus. Online access to business and educational databases through the Institute of Technology Carlow library website provides students with excellent research facilities to assist them in their project and continuous assessments. This infrastructure, together with the small class sizes in Wexford creates an excellent learning environment for students to reach their potential. With a dedicated team of lecturing staff in the Wexford Campus, lecturers are available to their students formally through our tutorial structures and informally as required. Many of the lecturers are also involved with our student clubs and

societies and our sports teams. Ongoing programme developments and infrastructure improvements will add to the educational opportunities provided by Wexford Campus in the future.

The energetic town of Wexford is located in the heart of the sunny South-East and has a population of approximately 20,000. There is a great sense of community in the town and a warm welcome awaits all students who attend the Institute of Technology Carlow Wexford Campus. There is a diverse range of leisure and entertainment activities in Wexford to suit all tastes and interests. Wexford boasts many historical attractions such as The Heritage Park and Johnstown Castle, to name but a few. Water sport pastimes are organised at the beautiful Curracloe beach all year round and the famous Wexford Opera Festival also attracts numerous visitors each year. Retailers of all types, from popular high street branches to exceptional boutiques, can be found on the narrow streets of Wexford town. There is also an abundance of restaurants, cafés and bars to choose from. Institute of Technology Carlow Wexford Campus lies in close proximity to the town and is only a couple of minutes walk from Main Street. The Campus allows for excellent interaction between students from all disciplines, lecturers and college personnel. With a choice of quality accommodation, an excellent transport system and an impressive nightlife, Wexford town has it all within a warm, friendly atmosphere that greatly adds to the student life experience.



Wicklow Campus and Town

Wicklow County Campus offers a broad range of Lifelong Learning higher education programmes on a part-time basis in partnership with Institute of Technology Carlow located in the former Clermont College in Rathnew. The education programme has expanded greatly to cater for growing demand, with courses specifically tailored to meet business needs. There are currently over 400 learners enrolled on Higher Education Programmes which include NFQ award level programmes from Level 6 up to Level 9 in Business, Law, IT, Social Studies and Early Childhood.

Our Wicklow campus is less than a 10-minute walk to Rathnew village and only a few minutes' drive from Wicklow town. Rathnew is located south of the capital Dublin, and just a 5-minute drive from the exit on the M11 motorway. It is centrally located in Wicklow with easy access to main tourist, transport routes and links. Wicklow town is the main town in County Wicklow and has a wide variety of facilities and amenities to suit all tastes. According to local history, the town was founded circa 795AD by the Vikings and boasts several historic buildings and a scenic harbour located in the central part of the town.



Dates for Your Diary

CLOSING DATES FOR POSTGRADUATE APPLICATIONS

Please check individual programme information on the Institute website for specific closing dates for each programme or contact the relevant Programme Director for more information.

VIRTUAL POSTGRADUATE FAIR

Thursday, 11th February 2021

5.30pm - 7.00pm

Please find all details on itcarlow.ie

LIFELONG LEARNING ONLINE SESSIONS

Lifelong Learning will run four Online Sessions over the course of a week, starting Monday, 21st June 2021.

Each session will focus on a specific discipline answering questions on courses available across our three campuses of Carlow, Wexford and Wicklow.

Business

Monday, 21st June 2021 – 7-8pm

Humanities

Tuesday, 22nd June 2021 – 7-8pm

Science/Engineering

Wednesday, 23rd June 2021 – 7-8pm

Springboard

Thursday, 24th June – 7-8pm

Online Sessions Platform: Zoom

September 2021 – Commencement of new academic year for 2021/2022 – dates to be confirmed.

Keep up to date with academic calendars and timetables, news and events on our website: itcarlow.ie

or follow us on the sites below:

www.linkedin.com/company/institute-of-technology-carlow

www.twitter.com/itcarlow

www.youtube.com/user/itcarlowvideo

www.instagram.com/itcarlow

www.facebook.com/ITCarlow



Key Contact Details

Admissions - Postgraduate Applicants

P: 059 917 5192
E: graduatestudies@itcarlow.ie

Admissions - International Applicants

Donal McAlister
MBA
International Affairs Manager
P: 059 917 5207
E: donal.mcalister@itcarlow.ie

Student Fees Officer

Geraldine Kelly
BBus (Hons)
Student Fees Officer
P: 059 917 5113
E: fees@itcarlow.ie

Access Officer

Aisling McHugh
BSc, HDipCG, PGDip SocSc
Access Officer
P: 059 917 5603
E: aisling.mchugh@itcarlow.ie

Faculty Contacts

Dr Brian Jackson
BA, PhD
Head of Postgraduate Studies
P: 059 917 5095
E: brian.jackson@itcarlow.ie

Dr Martin Meagher
BComm, MBA, FCA, MA, PhD
Head of Department – Business
P: 059 917 5300
E: martin.meagher@itcarlow.ie

Dr Eileen Doyle-Walsh
BA, MLitt, PhD
Head of Department – Humanities
P: 059 917 5305
E: eileen.doyle@itcarlow.ie

Dr Paula Rankin
BA, MSc, PgDip, PhD
Head of Department – Science and Health
P: 059 917 5500
E: paula.rankin@itcarlow.ie

Nigel Whyte
BSc, MSc
Head of Department – Computing
P: 059 917 5500
E: nigel.whYTE@itcarlow.ie

Myles Kelly
BComm, FCA, DipCompSc
Head of Department – Sport, Media and Marketing
P: 059 917 5300
E: myles.kelly@itcarlow.ie

Dr Eoin Homan
BEng, MSc, CEng, MIEI
Head of Department – Built Environment
P: 059 917 5406
E: eoин.homan@itcarlow.ie

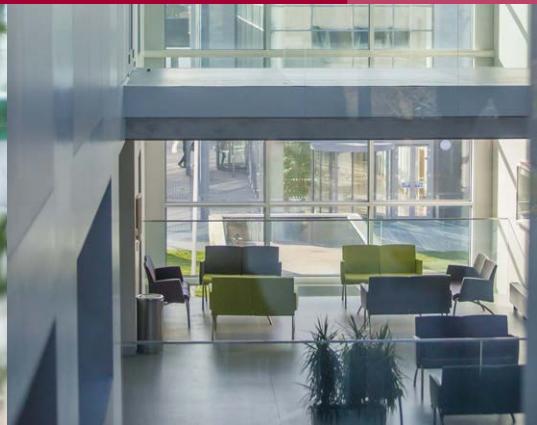
Dr Joseph Collins
BA, HDipEd, STB, STL, MEd, PhD
Head of Faculty of Lifelong Learning
P: 059 9175290
E: joseph.collins@itcarlow.ie

Lindsay Malone
BA (Hons), MA, PG Dip
Deputy Head of Faculty of Lifelong Learning
P: 059 9175280
E: lindsay.malone@itcarlow.ie

Eoin O'Brien
BA, DBS, CBS, Cert Mgmt, MBA
Manager – Facility of Lifelong Learning, Carlow Campus
P: 059 917 5280
E: eoin.obrien@itcarlow.ie

Dr Janette Davies
BSc, MA, PhD, MMII
Deputy Head of Campus -Wexford
P: 053 918 5808
E: janette.davies@itcarlow.ie

Anne Meaney
BA, MA, MIITD
Head of Extended Campus
P: 059 917 5295
E: anne.meaney@itcarlow.ie



Postgraduate Programmes, Codes and Fees 2021

Business, Digital Marketing and Design							
CODE	PROGRAMME TITLE	CAMPUS LOCATION	SCHEDULE	NFQ LEVEL	TOTAL CREDITS	FEES	PAGE
CWB01	Master of Business in Business	CARLOW	Full-time	9	90	€5,500	18
CWL03	Master of Business in Business	CARLOW	Part-time	9	90	€7,400*	18
CWX03	Master of Business in Business	WEXFORD	Part-time	9	90	€7,400*	50
CWW03	Master of Business in Business	WICKLOW	Part-time	9	90	€7,400*	64
CWL05	Master of Business Administration (MBA)	CARLOW	Part-time	9	90	€11,000	19
CWB11	Master of Science in Supply Chain Management	CARLOW	Full-time	9	90	€5,500**	20
CWL15	Master of Science in Supply Chain Management	CARLOW	Part-time	9	90	€7,400	20
CWW13	Master of Science in Supply Chain Management	WICKLOW	Part-time	9	90	€7,400	65
CWB07	Master of Science in Digital Marketing	CARLOW	Full-time	9	90	€5,500	21
CWX17	Master of Science in Digital Media with Business Analytics	WEXFORD	Full-time	9	90	€5,500	51
CWB12	Master of Arts in Interaction Design	CARLOW	Full-time	9	90	€5,500	22
CWX04	Postgraduate Diploma in Business	WEXFORD	Part-time	9	60	€5,500	50
CWB02	Postgraduate Diploma in Business	CARLOW	Full-time	9	60	€4,800	18
CWL04	Postgraduate Diploma in Business	CARLOW	Part-time	9	60	€5,500	18
CWW04	Postgraduate Diploma in Business	WICKLOW	Part-time	9	60	€5,500	64
CWL06	Postgraduate Diploma in Business Administration	CARLOW	Part-time	9	60	€9,000*	19
CWL16	Postgraduate Diploma in Supply Chain Management	CARLOW	Part-time	9	60	€5,500	20
CWB08	Postgraduate Diploma in Digital Marketing	CARLOW	Full-time	9	60	€4,800	21
CWB13	Postgraduate Diploma in Interaction Design	CARLOW	Full-time	9	60	€4,800	22
CWB16	Higher Diploma in Business in Supply Chain Management	CARLOW	Full-time	8	60	€3,000	23
CWL27	Higher Diploma in Business in Supply Chain Management	CARLOW	Part-time	8	60	€2,500	23
CWX11	Higher Diploma in Business in Supply Chain Management	WEXFORD	Part-time	8	60	€2,500	52
CWW14	Higher Diploma in Business in Supply Chain Management	WICKLOW	Part-time	8	60	€2,500	66
CWB14	Higher Diploma in Business Marketing	CARLOW	Full-time	8	60	€3,000	24
CWL26	Higher Diploma in Business in Business Management	CARLOW	Part-time	8	60	€2,500	25
CWX05	Higher Diploma in Business in Business Management	WEXFORD	Part-time	8	60	€2,500	53
CWW07	Higher Diploma in Business in Business Management	WICKLOW	Part-time	8	60	€2,500	68
CWB17	Higher Diploma in Business in International Business	CARLOW	Full-time	8	60	€3,000	26
CWL23	Higher Diploma in Business in International Financial Services	CARLOW	Part-time	8	60	€2,500	27
CWX14	Higher Diploma in Business in International Financial Services	WEXFORD	Part-time	8	60	€2,500	54
CWW11	Higher Diploma in Business in International Financial Services	WICKLOW	Part-time	8	60	€2,500	67
CWL24	Higher Diploma in Business in Tourism Marketing	CARLOW	Part-time	8	60	€2,500	28
CWX13	Higher Diploma in Business in Tourism Marketing	WEXFORD	Part-time	8	60	€2,500	55
CWW12	Higher Diploma in Business in Tourism Marketing	WICKLOW	Part-time	8	60	€2,500	69
CWX10	Higher Diploma in Business in Aquabusiness	WEXFORD	Part-time	8	60	€2,500	56
CWX06	Higher Diploma in Arts in Digital Media Design	WEXFORD	Full-time	8	60	€3,000	57
CWX07	Higher Diploma in Arts in Digital Media Design	WEXFORD	Part-time	8	60	€2,500	57
CWW08	Higher Diploma in Arts in Digital Media Design	WICKLOW	Part-time	8	60	€2,500	70
CWL30	Higher Diploma in Arts in Digital Media Design	CARLOW	Part-time	8	60	€2,500	29
CWL35	Higher Diploma in Science in Digital Marketing with Analytics	CARLOW	Part-time	8	60	€2,500	30

* Fees for ITC Major Award graduates only €5,500.

** SUSI Funding not available.

Postgraduate Programmes, Codes and Fees 2021

Humanities and Social Sciences							
CODE	PROGRAMME TITLE	CAMPUS LOCATION	SCHEDULE	NFQ LEVEL	TOTAL CREDITS	FEES	PAGE
CWB03	Master of Arts in Child, Youth and Family Studies	CARLOW	Full-time	9	90	€5,500	31
CWL09	Master of Arts in Child, Youth and Family Studies	CARLOW	Part-time	9	90	€7,400*	31
CWX01	Master of Arts in Child, Youth and Family Studies	WEXFORD	Part-time	9	90	€7,400*	58
CWW01	Master of Arts in Child, Youth and Family Studies	WICKLOW	Part-time	9	90	€7,400*	71
CWB09	Master of Arts in Leadership in Early Years Education and Care	CARLOW	Full-time	9	90	€7,400*	33
CWL17	Master of Arts in Leadership in Early Years Education and Care	CARLOW	Part-time	9	90	€7,400*	33
CWW05	Master of Arts in Leadership in Early Years Education and Care	WICKLOW	Part-time	9	90	€7,400*	72
CWX16	Master of Arts in Leadership in Early Years Education and Care	WEXFORD	Part-time	9	90	€7,400*	59
CWL01	Master of Arts in Teaching and Learning	CARLOW	Part-time	9	60	€6,000	32
CWL02	Postgraduate Diploma in Teaching and Learning	CARLOW	Part-time	9	60	€5,400	32
CWB04	Postgraduate Diploma in Child, Youth and Family Studies	CARLOW	Full-time	9	60	€4,800	31
CWX02	Postgraduate Diploma in Child, Youth and Family Studies	WEXFORD	Part-time	9	60	€5,500	58
CWL10	Postgraduate Diploma in Child, Youth and Family Studies	CARLOW	Part-time	9	60	€5,500	31
CWW02	Postgraduate Diploma in Child, Youth and Family Studies	WICKLOW	Part-time	9	60	€5,500	71
CWB10	Postgraduate Diploma in Leadership in Early Years Education and Care	CARLOW	Full-time	9	60	€5,500	33
CWL18	Postgraduate Diploma in Leadership in Early Years Education and Care	CARLOW	Part-time	9	60	€5,500	33
CWW06	Postgraduate Diploma in Leadership in Early Years Education and Care	WICKLOW	Part-time	9	60	€5,500	72
CWL28	Higher Diploma in Arts in Early Childhood Education and Care	CARLOW	Part-time	8	60	€2,500	34
CWW09	Higher Diploma in Arts in Early Childhood Education and Care	WICKLOW	Part-time	8	60	€2,500	73
CWX08	Higher Diploma in Arts in Early Childhood Education and Care	WEXFORD	Part-time	8	60	€2,500	60
CWL29	Higher Diploma in Arts in Applied Social Studies	CARLOW	Part-time	8	60	€2,500	35
CWW10	Higher Diploma in Arts in Applied Social Studies	WICKLOW	Part-time	8	60	€2,500	74
CWX09	Higher Diploma in Arts in Applied Social Studies	WEXFORD	Part-time	8	60	€2,500	61

Computing and Data Science							
CODE	PROGRAMME TITLE	CAMPUS LOCATION	SCHEDULE	NFQ LEVEL	TOTAL CREDITS	FEES	PAGE
CWS01	Master of Science Information Technology Management	CARLOW	Full-time	9	90	€7,000**	36
CWL07	Master of Science Information Technology Management	CARLOW	Part-time	9	90	€7,400*	36
CWS02	Postgraduate Diploma in Information Technology Management	CARLOW	Full-time	9	60	€6,000**	36
CWL08	Postgraduate Diploma in Information Technology Management	CARLOW	Part-time	9	60	€5,500	36
CWS07	Master of Science in Data Science	CARLOW	Full-time	9	90	€7,000	37
CWS09	Postgraduate Diploma in Data Science	CARLOW	Full-time	9	60	€6,000	37

* Fees for ITC Major Award graduates only €5,500.

** SUSI Funding not available.

Health and Sport							
CODE	PROGRAMME TITLE	CAMPUS LOCATION	SCHEDULE	NFQ LEVEL	TOTAL CREDITS	FEES	PAGE
CWS05	Master of Science in Strength and Conditioning	CARLOW	Full-time	9	90	€7,800	38
CWS30	Master of Science in Strength and Conditioning	CARLOW	Part-time day	9	90	€7,800	38
CWB05	Master of Science in Sports Performance Analysis	CARLOW	Full-time	9	90	€7,000*	39
CWB30	Master of Science in Sports Performance Analysis	CARLOW	Part-time day	9	90	€7,000*	39
CWS06	Postgraduate Diploma in Strength and Conditioning	CARLOW	Full-time	9	60	€6,000	38
CWS31	Postgraduate Diploma in Strength and Conditioning	CARLOW	Part-time day	9	60	€6,000	38
CWB06	Postgraduate Diploma in Sports Performance Analysis	CARLOW	Full-time	9	60	€6,000	39
CWB31	Postgraduate Diploma in Sports Performance Analysis	CARLOW	Part-time day	9	60	€6,000	39

Science							
CODE	PROGRAMME TITLE	CAMPUS LOCATION	SCHEDULE	NFQ LEVEL	TOTAL CREDITS	FEES	PAGE
CWL34	Master of Science in Medical Device Regulatory Affairs	CARLOW	Full-time	9	60	€5,500**	40
CWL13	Master of Science in Medical Device Regulatory Affairs	CARLOW	Part-time	9	90	€7,400*	40
CWS03	Master of Science in Pharmaceutical Regulatory Affairs	CARLOW	Full-time	9	90	€7,400**	41
CWL11	Master of Science in Pharmaceutical Regulatory Affairs	CARLOW	Part-time	9	90	€7,400*	41
CWL14	Postgraduate Diploma Medical Device Regulatory Affairs	CARLOW	Part-time	9	60	€5,500	40
CWS04	Postgraduate Diploma in Pharmaceutical Regulatory Affairs	CARLOW	Full-time	9	60	€5,500**	41
CWL12	Postgraduate Diploma in Pharmaceutical Regulatory Affairs	CARLOW	Part-time	9	60	€5,500	41

Engineering							
CODE	PROGRAMME TITLE	CAMPUS LOCATION	SCHEDULE	NFQ LEVEL	TOTAL CREDITS	FEES	PAGE
CWE03	Master of Science in Applied Research and Innovation	CARLOW	Full-time	9	90	€5,500	42
CWE01	Master of Science Management in the Built Environment	CARLOW	Full-time	9	90	€7,400*	43
CWE06	Master of Engineering in Applied Materials	CARLOW	Full-time	9	90	€7,400*	44
CWE07	Master of Science in Industrial Networks and Cybersecurity	CARLOW	Full-time	9	90	€7,400*	45
CWE04	Master of Engineering in Flight Test Engineering	CARLOW	Full-time	9	90	€7,400*	46
CWE05	Postgraduate Diploma in Engineering in Flight Test Engineering	CARLOW	Full-time	9	60	€5,500	46
CWE02	Postgraduate Diploma in Management in the Built Environment	CARLOW	Full-time	9	60	€5,500	43

NOTE: All programmes are offered subject to sufficient numbers of students. This document is intended as a guide to programmes. While every effort has been made to ensure the completeness and accuracy of the information contained in this publication at the time of print, Institute of Technology Carlow reserves the right to make changes to any content, schedules or fees.

Programme Fees for Non-EU Students

Masters Programme Fee – €11,250
Higher Diploma Programme Fee – €10,250

* Fees for ITC Major Award graduates only €5,500.

** SUSI Funding not available.

Carlow Campus

Kilkenny Road
Carlow
R93 V960

T: 059 917 5000
E: info@itcarlow.ie
W: itcarlow.ie

Wexford Campus

Summerhill Road
Wexford
Y35 KA07

T: 053 918 5800
E: wexford@itcarlow.ie
W: wexfordcampus.ie

Wicklow County Campus

Clermont House, Rathnew
County Wicklow
T: 0404 67125
E: wicklow@itcarlow.ie
W: itcarlow.ie

 ITCarlow

 @ITCarlow

 ITCarlow

 Institute of Technology Carlow