CORK INSTITUTE OF TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ

knowledge at work

CONTINUING EDUCATION

COURSES 2018-2019








KNOWLEDGE AT WORK

Cork Institute of Technology
Institiúid Teicneolaíochta Chorcaí

INCORPORATING

CIT Cork School of Music
CIT Crawford College of Art & Design
National Maritime College of Ireland

CIT CONTINUING EDUCATION HANDBOOK

COURSES 2018-2019

Please note that a telephone line is available for queries after normal business hours

T: 021 432 6100
E: info@cit.ie
W: www.cit.ie

Twitter: @CIT_ie
Facebook: www.facebook.com/myCIT

CIT Bishoptown Campus

CIT Cork School of Music

National Maritime College of Ireland

CIT Crawford College of Art & Design

CIT'S MISSION

To provide student-centred education with a career focus for the benefit of the personal, intellectual and professional development of the student and for the benefit of the whole of society.

A MESSAGE FROM THE PRESIDENT

Fáiltím roimh eagrán 18/19 den leabhrán seo den Leabhrán um Oideachas Leanúnach ina dtugtar léargas beacht ar a bhfuil ar fáil i mbliana i CIT do dhaoine go bhfuil fonn orthu cur lena gcuid scileanna is eolais ar bhonn páirt-aimsireach.

In September of last year, CIT partnered with Cork City Council, Cork ETB and UCC to host the **UNESCO International Conference on Learning Cities**, out of which came the *Cork Call to Action for Learning Cities* which recognises the important role of lifelong learning as a driver for environmental, social, cultural, and economic sustainability. The Cork Call outlines key strategies for cities to promote health and environment, equity and inclusion, as well as decent work and entrepreneurship. The Continuing Education portfolio at CIT ensures that the Institute's part-time learners can avail of a broad spectrum of opportunities to continue their learning experiences in areas of interest to them and at their own pace. This CIT Continuing Education Handbook is a clear example as to how the Institute is well aligned with the UNESCO Learning Cities values.

Dr Barry O'Connor
Uachtarán

BISHOPSTOWN CAMPUS MAP

LEGEND

1 A-Block
Classrooms, Labs, Staff Offices & Workshops

2 B-Block
Classrooms, Labs, Staff Offices

3 C-Block
Atria (East and West)
Chaplaincy Info Desk
Classrooms and Laboratories
Food Court
Shop (An Síopa)

4 D-Block
Caretakers
Reception
Chaplaincy Office
Chapel
James Barry Exhibition Centre
Rory Gallagher Theatre

5 CREATE Building

6 E-Block

7 F-Block

8 Sports Hall

9 Berkeley Centre
Library 9.1
IT Centre 9.2
IT Lecture Theatres 1-5
IT Labs
IT Open Access Centre
IT Servicedesk

10 Student Centre

Ground Floor
Bank of Ireland & ATMs
Bistro
Access Services
Nexus Market
Nexus Hall
Copy Centre
Card Office
Extended Campus
Alumni Office

First Floor
Accomodation Office
Common Room
Chaplaincy Office
Gallery
Medical Centre
Student's Union
Sports Office
Societies Office

Second Floor
Careers & Counselling

11 Administration Centre

Ground Floor
Enquiries Desk 1
Admissions, Registrations
Enquiries Desk 2
Fees, Grants & Accounts Payable
Development Office
International Office
Arts Office

First Floor
Buildings & Estates
Registrar & Academic Affairs
Graduate Studies Office

Second Floor
Office of the President
Council Room
Finance & Payroll
Human Resources

12 Tourism Building

13 G-Block

14 Melbourn Building
Exams Office, Exam Centre & Architecture Factory

15 Nimbus Centre

16 Rubicon Centre

17 Sports Stadium

18 Athletics Stand & Track

Reserved Parking | Student / Visitors Parking | Bike Parking | Bus Stops | Restaurants

CONTENTS

CORK INSTITUTE OF TECHNOLOGY 1

SCHOOL OF BUSINESS 11

SCHOOL OF HUMANITIES 40

SCHOOL OF BUILDING & CIVIL ENGINEERING 60

CIT CORK SCHOOL OF MUSIC 158

CIT CRAWFORD COLLEGE OF ART & DESIGN 162

CIT Bishopstown Library

ABOUT CORK INSTITUTE OF TECHNOLOGY

Whatever your plans and talents CIT has a course to study for you. We offer the full range of Higher Education qualifications, including Bachelor Degrees and Honours Bachelor Degrees, as well as Masters and PhD degrees.

There is a flexible "ladder" system in place which in many cases allows you to progress from one award to the next.

For those returning to education from employment or for those with other commitments, CIT has a varied part-time and evening programme, one of the largest at third level in the country.

CIT is the largest institute outside Dublin.
It has four principal campuses:

Bishopstown Campus
Bishopstown, Cork (www.cit.ie)

CIT Crawford College of Art & Design (CIT CCAD)
Cork City (http://crawford.cit.ie)

CIT Cork School of Music (CIT CSM)
Cork City (http://csm.cit.ie)

National Maritime College of Ireland (NMCI)
Ringaskiddy, Co. Cork (www.nmci.ie)

The main campus of some eighty acres is situated in the western suburbs of Cork city. It is comprehensively equipped with lecture rooms, laboratories, theatres, drawing studios, library, computer suites, open-access computing centre, and research units. The student centre includes a common room, café, shop, Students' Union, sport clubs, and societies. Recreational facilities include a championship standard running track, tennis courts, all-weather pitch, an excellently appointed gymnasium, and grass playing pitches. A heated indoor public swimming pool and fitness centre (Leisureworld) is located alongside the Institute.

The student population comprises approximately 11,500 between full-time and part-time courses. Courses are offered in Engineering, Science, Business, Humanities, Fine Art, Applied Art, Multimedia, Informatics, Music, and Theatre & Drama at Higher Certificate, Degree and Honours Degree level. There is also an extensive range of postgraduate research and taught programmes at Masters and Doctoral level.

QUALITY AND QUALIFICATIONS IRELAND (QQI)

The third-level courses offered by CIT are nationally and internationally recognised by the Quality & Qualifications Ireland (QQI). QQI is the integrated agency that has replaced the Further Education & Training Awards Council (FETAC), the Higher Education & Training Awards Council (HETAC) and the National Qualifications Authority of Ireland (NQAI), and it incorporates the functions of the Irish Universities Quality Board). FETAC, HETAC, and NQAI are now dissolved.

QQI is responsible for the external quality assurance of further and higher education and training (including English language provision), and validates programmes and makes awards for certain providers in these sectors. QQI is also responsible for the maintenance, development and review of the National Framework of Qualifications (NFQ).

Awards and qualifications formerly made by HETAC and FETAC continue to be recognised, because they are on the NFQ. Current programmes leading to a HETAC or FETAC award are now awarded by QQI.

The Institute has always sought the widest possible recognition for its courses and has established relationships with a wide variety of professional bodies for that purpose. For example, CIT's engineering courses are accredited by Engineers Ireland and consequently have world-wide recognition. CIT's business courses gain exemption and recognition from a variety of accounting, marketing, and management professional bodies. Effective contact with industry has been a key objective of the Institute since its inception. The benefits of the links which have been established with industry in the region are reflected in the high levels of student placement, and in the R&D contracts won by the Institute.

CIT offers students an opportunity to pursue courses of proven merit in a progressive and caring environment where students' needs are treated as paramount.

For further information, visit our website: **www.cit.ie**

INFORMATION/REGISTRATION

Institute staff will be in attendance during each session to offer career guidance and assistance.

All part-time programmes at CIT will run subject to sufficient student numbers. Where a programme cannot proceed, applicants will be contacted and advised on alternative study options.

Information/Registration for the academic year beginning September 2018 will take place from 6.00pm to 8.00pm on the following dates:

Tuesday 4th September 2018
CIT Bishopstown Campus

Business: Business Studies & Accounting, Marketing, and Human Resource Management.

Humanities: Cookery, Bar Operations, Hospitality Management, and Counselling & Psychotherapy.

Media: TV Production, Radio Broadcast Media, Journalism, PR with New Media, E-learning, and Digital Media.

Wednesday 5th September 2018
CIT Bishopstown Campus

Engineering: Biopharmaceutical, Civil, Structural & Environmental, Good Manufacturing Practice, Construction, Mechanical, Biomedical, Advanced Manufacturing & Manufacturing Systems, Supply Chain & Transport Management, Transport & Automobile, and Welding.

Science & Informatics: Applied Physics & Instrumentation, Quality Assurance/Management, Computing, and Mathematics.

Thursday 6th September 2018
CIT Crawford College of Art & Design

Please note: Enrolment will take place at the CIT Crawford College of Art & Design, Sharman Crawford Street, Cork, from 6.00pm to 8.00pm.

Art Therapy, Art & Process, Weekend Courses, and Short Courses (Life Drawing/Painting/Photography/Pottery/Stained Glass/Art Portfolio Preparation).

STUDENT EMAIL SYSTEM

www.mycit.ie/howtostart

All students will be issued with a CIT email address on registration. Please ensure that you refer to this email address regularly as all communication from the Institute will be sent to your CIT email address.

This includes information concerning examination timetables, examination results, class cancellation, projects, placements, job opportunities, etc.

If you have any difficulty setting up or accessing your email account, please email servicedesk@cit.ie

CIT SMART CARD

www.mycit.ie/smartcard

The CIT Smart Card is your primary form of campus identification and all students are expected to have a card. An identity card, but a lot more... your card will provide you with access to the following:

- Campus copiers (debit account)
- Campus print services
- Campus reprographics services (this is a cash free facility, payment by card only)
- Library access
- Library book checkout
- Access to laboratories (limited based on student/course requirements)
- Food service/shop purchases (debit account)
- Campus car parking facilities

N.B. Students will need to produce a current CIT Smart Card if they wish to sit examinations.

You can obtain your card from the Reprographics & Card Services Office, Room S102, Ground Floor, Nexus Student Centre, CIT Bishopstown Campus.

T: 021 433 5290 E: citcard@cit.ie
Opening hours: 8.30am – 1.00pm and 1.30pm – 4.30pm

MONEY MATTERS

www.cit.ie/fees

Tax Relief
Tax Relief on Tuition Fees - Third Level Education Courses must be at least 2 academic years duration for undergraduates and 1 year for postgraduate course. Tax relief is available for one course per individual in a tax year and is at the standard rate of tax. www.revenue.ie/en/tax/it/leaflets/it31.html

Fees
Details of course fees are included with the course information in this handbook. Students should note that Fees quoted relate to the academic year 2018-2019 only and are subject to change on an annual basis. Except where stated, course fees cover the cost of tuition only. Registration fees for professional bodies etc. are payable separately to these institutions.

Students will be notified of their fees by email to their CIT email account and in all cases, course fees must be paid before attending lectures.

Students can check their account balance and pay their fees online at **www.cit.ie/pay**

Failure to pay fees on time will result in a late payment fee of 10% being applied and students will no longer have access to the following IT facilities:
- Student Email
- PCs on Campus
- Blackboard
- Library Search
- Card Topup
- Password Reset
- Wifi Registration
- Get Microsoft Office
- Access Student Drive

- Where course fees are being funded by an employer, you are asked to seek payment or reimbursement from your employer. Where an employer requires an invoice in their Company name the employer must e-mail fees@cit.ie with the relevant details and the amount of Fees they will be funding.
- For semesterised courses, students pay for the relevant modules at the beginning of each semester. Payment of fees by laser, debit or credit card can be made online at **www.cit.ie/pay** or by phoning 021 433 5440.

Students should familiarise themselves with the relevant section of the Student Regulations.

Please note that the Fees Office will use your CIT email account for important communications.

Withdrawing from a course
Students who wish to withdrawn from a course must notify the admissions office and complete a withdrawal form. Where students fail to inform admissions of their withdrawal they will remain liable for any unpaid fees on their accounts.

E-mail admissions@cit.ie
www.cit.ie/admissions/withdrawing-deferring

REFUND POLICY

All courses at CIT will run subject to sufficient student numbers. Where a course cannot proceed, applicants will be contacted and advised on alternative study options.

The following refund policy applies to all courses detailed in this handbook for the 2018/2019 academic year:

- A full refund will be given to all applicants for courses which do not proceed.
- A full refund will be given to students who withdraw before 5th September.
- Where students pay the online application fee to accept an offer they have 14 days in which to withdraw and claim a full refund provided the course has not commenced.
- A full refund (less 15% administration fee) will be given to applicants for short courses, if requested up to one week after course commencement. No refunds will be given thereafter. A short Course is less than 12 weeks duration.
- A full refund (less 15% administration fee) will be given to applicants for semesterised and full year courses if requested up to one month after the commencement of Semester 1 and before the end of February for Semester 2. No refunds will be given thereafter.
- All applications for refunds must be made on the appropriate Refund Form which can be requested from the CIT Fees Office (email fees@cit.ie).

NB: Students are reminded to ensure that they have clearly understood all the terms of their enrolment with CIT, in particular clauses concerning refunds, deferments, waivers, course transfers, and visa applications (when applicable).

EXAMINATIONS

www.mycit.ie/examinations

Entering for examinations is the responsibility of the registered student.

Semester examinations
For semester 1, 2 and 3 examinations, students should ensure they are correctly registered for all required modules by the deadlines indicated – see www.cit.ie/admissions

Repeat examinations
Modules failed in semester 1 or 2 may be repeated at the autumn (August) session. To register, students should register online as per the email sent in June to all students needing to repeat. If you wish to register to repeat a module from a previous academic year in the current autumn session, then you will need to contact exams@cit.ie in early June – see also www.mycit.ie/examinations

Examination timetables and regulations
Information re student examination timetables and examination regulations will be emailed to students' myCIT email accounts normally three weeks before the examination session. Please note that examinations are scheduled at 10.00am, 2.00pm and 5.30pm, Monday to Friday inclusive, and at 10.00am and 2.00pm on Saturdays. All students (both full-time and part-time) sitting end-of-semester or repeat exams should expect to have exams timetabled at any of these sessions. Students should familiarise themselves with the important documents which relate to examinations at CIT, available online at www. mycit.ie/examinations/regulations/

Fees: Only students who have completed their registration processes (i.e. paid their fees in full) are entitled to sit examinations. To make an online payment please go to www.cit.ie/pay

Employer paying fees: If the student's employer or any outside agency is paying his/her fees, the onus is on the student to ensure that the correct fees are paid in full, visit www.cit.ie/admissions

Students with disabilities requesting examination supports
Students with disabilities, specific learning differences or health/medical conditions who may be entitled to examination supports, such as a separate room, extra time, reader, scribe or laptop for their exams, need to first register (including submitting relevant documentation) at least 7 weeks before the start of exams with the Disability Support Service (part of the Access Service), T: 021 433 5107 / 5137, E: dss@cit.ie, W: www.cit.ie/dss

ACCESS SERVICE

www.cit.ie/access

CIT is committed to ensuring that education is a basic right, not a privilege. CIT believes that equal access, equal opportunities and equal treatment are key principles to support access to higher education.

The Access Service engages with four main target groups;
- People who are socio-economically disadvantaged
- Mature Students (Full-time Courses)
- Students with Disabilities
- Ethnic Minorities

The Access Service organises supports such as information sessions, school visits, parents' information sessions, student shadowing, induction programmes, the Mature Student Support Network, and financial assistance.

Contact
Deirdre Creedon
Access Officer
T: 021 433 5140
E: deirdre.creedon@cit.ie

DISABILITY SUPPORT SERVICE (DSS)

www.mycit.ie/dss

The aim of this service is to widen participation and increase access to third level for students with learning differences, health conditions, and disabilities. Once a student has registered with this Service, a needs assessment is carried out and supports are put in place in accordance with the assessment. The Service offers a range of supports including learning support, assistive technology, confirmation of exam supports, sign language interpreters, and stereotyping etc., (availability of supports may be dependent on funding available). Students are recommended to register with the Service as early as possible in the academic year.

You can register for the DSS by filling out the online registration form - www.mycit.ie/dss

You will need to provide the DSS with evidence of your disability/medical condition/learning difference also.

The DSS is a confidential service

Contact
Laura Coleman
Disability Support Officer
T: 021 433 5107 / 5137
E: dss@cit.ie

THE NATIONAL FRAMEWORK OF QUALIFICATIONS

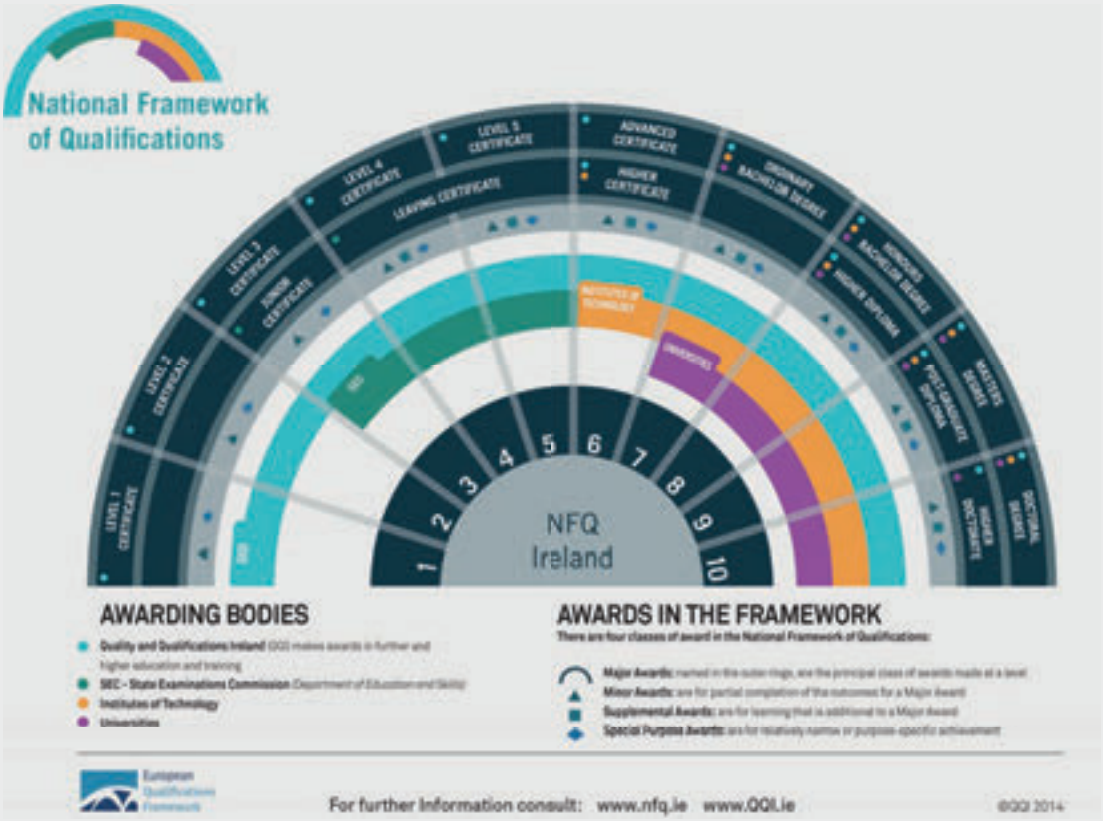
The National Framework of Qualifications (NFQ) provides a way to compare qualifications, and to ensure that they are quality assured and recognised at home and abroad. The Framework of Qualifications is an official national system for describing and linking all educational qualifications.

The Framework has been established by the National Qualifications Authority of Ireland (NQAI), a State body established under the Qualifications Act 1999.

All educational awards have been assigned “levels” in the National Framework of Qualifications. For example: The benefit for you, the continuing education student, is a clearer progression to further study, as well as national and international recognition of the awards you achieve.

Level 6	Higher Certificate
Level 7	Ordinary Bachelor Degree
Level 8	Honours Bachelor Degree; Higher Diploma
Level 9	Master’s Degree; Postgraduate Diploma
Level 10	Doctoral Degree

For more information please visit www.nfq.ie and www.qqi.ie as well as www.cit.ie



MODULARISATION & SEMESTERISATION

CIT operates a Credit Based Modular System. This is compliant with the European Credit Transfer System (ECTS). The academic year is divided into two equal halves, and each semester will normally consist of six modules each worth five credits.

WHAT IS A SEMESTER?

A semester is half of an academic year. Each semester is of 15 weeks duration for which learners can earn 30 credits. Typically Semester 1 begins in September and ends in January while Semester 2 starts in January and ends in May.

WHAT IS A MODULE?

A module is a standalone unit of learning and assessment and is completed within one semester. A full-time student will normally study six modules in each semester; part-time and ACCS students will have flexibility as to the number of modules taken.

WHAT ARE CREDITS?

Credits are a measure of the amount of learning within a module. They are awarded to learners who successfully complete the assessments in a module. A full-time year of study is worth 60 credits; this is the European norm under the ECTS system. In CIT, one credit is equivalent to approximately 20 – 25 hours of student learning of all types, including lectures, practicals, tutorials, assignments, and independent study.

ACCS SCHEME

ACCS is an acronym for “Accumulation of Credits and Certification of Subjects”. This scheme allows students (for specified courses) - instead of studying an entire course – to study one or more modules of that course. Modules passed, are certified individually, and can be accumulated, leading to an award of Higher Certificate, Degree or Honours Degree.

NATIONAL VETTING BUREAU (NVB)

The National Vetting Bureau (Children and Vulnerable Persons) Acts 2012 to 2016 provide a statutory basis for mandatory vetting of persons who wish to undertake a work placement and/or activities that bring them into contact with children and/or vulnerable adults.

Some programmes at CIT require students to undertake mandatory placements with external agencies, which will bring them into contact with children and/or vulnerable adults and in which they will assume positions of public trust. The Institute is committed to ensuring that only suitable candidates are allowed to undertake these programmes.

CIT uses the NVB to help assess the suitability of all applicants on such programmes. It is important to note that participation in or completion of these programmes may be affected by subsequent disclosure/discovery.

For more information, visit www.cit.ie/gardavetting

CIT EXTENDED CAMPUS

http://extendedcampus.cit.ie

CIT Extended Campus is a single point of contact to support external organisations in their interactions with the many academic departments and research units within CIT.

CUSTOMISED COURSES AND IN-COMPANY TRAINING

The programmes presented in this Handbook represent only a part of the range of potential learning opportunities on offer within CIT. If you have a particular training and development need we would be very happy to talk to you about the development of a customised learning pathway. We recognise that knowledge exchange and partnership between higher education institutions and enterprises provides the optimum environment for relevant and up-to-date education and development opportunities.

LEARNING CLINIC SERVICE

In order to support employers and employees in identifying suitable learning and development pathways CIT offers a Learning Clinic Service. Experienced staff can be available at your premises at a time that suits you to discuss education and training needs, opportunities and to explore the development of tailored courses and the recognition of prior learning.

"the CIT Learning Clinic proved to be one of the most popular site visits of 2014 with employees reporting that the clinics were very helpful and informative"
– EMC Ireland COE Talent Development Group

RECOGNITION OF PRIOR LEARNING

"learning from life counts too"
www.cit.ie/rpl

CIT knows that learning takes place throughout life and in many settings, such as work or voluntary activities, sporting and participation in community events. We also know that learners may dip in and out of formal education throughout a lifetime depending on the needs of the learner. Relevant learning may have been gained in formal, non-formal or informal settings and may allow the individual to gain entry to a course or to gain credit for a module on a course.

CIT has a Recognition of Prior Learning (RPL) Service where learning from all aspects of life may be presented for assessment towards credit or a grade or for advanced entry onto a programme.

SPRINGBOARD+ COURSES

FREE PART-TIME AND CONVERSION COURSES

From May 2018 Springboard+ offers over 250 free places on 10 courses at CIT which lead to awards at certificate, degree and postgraduate level. The majority of courses are part-time for a maximum of 12 months and are open to all eligible applicants regardless of their employment status.

The following are eligible to apply for courses in 2018/19 academic year (subject to the applicant meeting all requirements, e.g. academic requirements):

- **Returners (Formerly known as Homemakers)**
  May apply to all courses if they meet the nationality/visa requirement and residency criteria.
- **People in employment**
  May apply to all courses if they meet the nationality/visa requirement and residency criteria.
  Please note that a 10% course fee contribution for Level 7, 8, and 9 courses is applicable for employed participants. This is payable directly to the provider.
- **The unemployed or formerly self-employed**
  All courses are open to these category of applicants, with the exception of the two year part-time ICT conversion courses which are not open to those in receipt of a Jobseekers-related payment

GRADUATE WITH SKILLS IN GROWING SECTORS

All courses lead to qualifications in enterprise sectors which are growing and need skilled personnel, including information and communications technology (ICT) and manufacturing. All have been developed in close cooperation with regional and local employers ensuring that the content is relevant and current, meeting existing and predicted skills requirements.

KEEP YOUR SOCIAL PROTECTION SUPPORTS

Most Springboard+ courses are part-time, enabling you to keep social protection supports. However, a number of the courses available are ICT Conversion courses, which can be one year full-time or two years part-time. In relation to the one year full-time courses those who are in receipt of a Jobseekers payment and satisfy Department of Social Protection criteria of being in receipt of a payment for 9 of the previous 12 months can apply for the Back to Education Allowance (BTEA). In relation to the two year part-time ICT Conversion courses, those who are in receipt of a Jobseekers payment, or a Farm Assist payment, or a Qualified Adults of Working Age payment, are not eligible for these two year courses.

Springboard+ is managed by The Higher Education Authority on behalf of The Department of Education and Skills.

For full course information and eligibility criteria please see **www.springboardcourses.ie**

CIT SPRINGBOARD+ COURSES 2018

GENERAL INFORMATION

www.mycit.ie/academic

INSTITUTE REGULATIONS

All students are required to make themselves aware of CIT Regulations. A copy of the booklet is available from the Admissions Office.

PARKING FACILITIES

Parking facilities are provided at the Institute. Parking is prohibited along the main entrance and on all double yellow lines. Vehicles parked in non-designated areas will risk being towed away or clamped. There is a charge for vehicle recovery (from the service provider's compound in Togher) or for unclamping vehicles. Please refrain from blocking access to private residences near the Institute.

LIBRARY

Part-time registered students are permitted to use the Library. An official CIT ID card must be produced to gain entry to the Library, and also to borrow books.

Bishopstown Campus
Opening hours during term
Monday – Thursday 8.30am – 9.45pm
Friday 8.30am – 5.30pm
Saturday 9.15am – 5.00pm

Opening hours outside of term
Monday – Friday 9.15am – 5.30pm

CCAD, CSM, and NMCI library opening hours vary.
Please visit http://library.cit.ie/screens/opening2.html

BANKING

Banking services are provided at CIT through the Bank of Ireland. Full ranges of banking services including ATM facilities are available.

CATERING FACILITIES

Bishopstown Campus

FOOD COURT

Monday – Thursday: 8.15am to 8.45pm
(Note: Hot food is available until 7.00pm each night)
Friday: 8.15am to 2.30pm

The Coffee Hub
Monday – Friday: 8.15am to 4.00pm

The Snack Bar
Monday – Friday: 9.30am to 2.30pm

The Bistro
Monday – Friday: 8.00am to 2.30pm

An Siopa
Monday – Thursday: 8.15am to 7.00pm
Friday: 8.15am to 2.00pm

Nexus Market
Monday – Thursday: 8.00am to 5.00pm
Friday: 8.00am to 4.00pm

ADMISSIONS/REGISTRATIONS

T: 021 4335040 E: admissions@cit.ie

Opening hours
First Three Weeks of Semester 1:
Monday – Thursday
9.30am – 7.00pm
Friday
9.30am – 12.30pm
2.00pm – 4.00pm

During term:
Monday – Thursday
9.30am – 4.00pm
Friday
9.30am – 12.30pm
2.00pm – 4.00pm

Outside of term:
Monday – Friday
9.30am – 12.30pm
2.00pm – 4.00pm

EXAMINATIONS

T: 021 433 5381/5385 E: exams@cit.ie

Opening hours
Monday – Thursday
8.30am – 12.30pm
2.00pm – 4.30pm
Friday
8.30am – 12.30pm
2.00pm – 4.00pm

ACCOUNTS/COURSE FEES

T: 021 433 5440 E: fees@cit.ie

Opening hours
Monday – Friday
9.30am – 12.00noon; 2.00pm – 4.00pm

RECEPTION

CIT Bishopstown T: 021 432 6100
CIT Crawford College of Art & Design T: 021 433 5200
CIT Cork School of Music T: 021 480 7300
National Maritime College of Ireland T: 021 433 5600

CHAPLAINCY/ STUDENT SUPPORT TEAM

www.mycit.ie/chaplaincy

Chaplain:
Fr Dave McAuliffe
T: 021 433 5754
E: dave.mcauliffe@cit.ie

Coordinator of Pastoral Care:
Edel Kelly
T: 021 433 5756 /087 205 5595
E: edel.kelly@cit.ie

Chaplaincy is a dynamic presence at CIT, accompanying both students and staff on their life journey. We are open to people of all faiths and cultures and none. The chaplaincy extends a warm welcome to both students and staff and assure you of our presence and support, especially in times of bereavement, illness and during the anxious moments that we all experience from time to time.

We look forward to meeting you throughout your time in CIT.

ALUMNI OFFICE AND ALUMNI ASSOCIATION

www.cit.ie/alumni

The CIT Alumni Office supports and develops alumni relations activities at CIT while also encouraging links between graduates and the Institute. The Office also supports and develops the ever growing CIT Alumni Association (association of former students) which enables graduates to keep in touch with developments at CIT and maintain contacts with friends, classmates, and faculty staff from college days.

Please keep the CIT Alumni Office updated with your current contact details, including your email address, so that we can keep you informed about news and events at CIT. You can update your details at www.cit.ie/alumni

TEN WAYS FOR ALUMNI TO STAY CONNECTED TO CORK INSTITUTE OF TECHNOLOGY:

1. **Visit the Website.** Gain access to many resources.
2. **Update Your Details.** Log onto www.cit.ie/alumni to update your contact details or contact the CIT Alumni Office on 021 4326589 or by email alumni@cit.ie
3. **Stay Connected Online.** Join the CIT Alumni Association on Facebook, Twitter and LinkedIn. Post available job opportunities from your employer on the CIT Alumni LinkedIn network.
4. **Reminisce.** View, post or share photos from the CIT Alumni Association Facebook and Twitter pages.
5. **Advocate.** Tell the CIT story near and far by submitting a Graduate Profile.
6. **Stay Updated.** Read and share the latest campus and alumni news from the Alumni E-newsletter. Subscribe by emailing alumni@cit.ie
7. **Network.** Build CIT connections across the globe through setting up or becoming involved in a CIT Branch near you.
8. **Advance Your Career.** Tap into professional resources and career services through the CIT Careers Office.
9. **Give Back.** Pay it forward by giving to the area of CIT that means the most to you, or seek other ways to support CIT as a volunteer or mentor.
10. **Return to CIT.** Attend CIT events on campus such as seminars, special events or sporting events. Visit the CIT events page and news page for frequent updates.

To find out about all the latest developments at CIT we encourage you to join our social and professional networking sites:

"CIT Alumni Association" Facebook or http://www.facebook.com/CITalumni

"CIT Alumni LinkedIn" http://linkd.in/ZWJhBT

"CIT Alumni Twitter" or https://twitter.com/CITAlumni

Please contact us by emailing alumni@cit.ie if you have any comments, suggestions, or queries. CIT Alumni Association is a continuously growing community, so register now and get involved!

SCHOOL OF BUSINESS

HEAD OF SCHOOL

BRIAN MCGRATH

The School consists of the following Departments:

- Organisation & Professional Development
- Management & Enterprise
- Accounting & Information Systems
- Marketing & International Business

Information/Registration for continuing education courses for the School of Business will take place at the CIT Bishopstown Campus on Tuesday, 4th September 2018, 6.00pm to 8.00pm. School of Business staff will be in attendance to offer career guidance and assistance.

HTTP://BUSINESS.CIT.IE

SCHOOL OF BUSINESS

DEPARTMENT OF ORGANISATION & PROFESSIONAL DEVELOPMENT

HEAD OF DEPARTMENT

Don Crowley

DEPARTMENT SECRETARIES

Eileen O'Mahony
Location: Room D143
T: 021 433 5900
E: opd@cit.ie

Kathryn Carey
Location: Room D143
T: 021 433 5902
E: kathryn.carey@cit.ie

COURSES

- Bachelor of Arts in Human Resource Management (Level 7)
- Bachelor of Arts (Honours) in Human Resource Management (Level 8)
- Master of Arts in Human Resource Management (Taught) (Level 9)
- Master of Business Administration in Strategy (Level 9)

PROFESSIONAL ACCOUNTANCY PROGRAMMES

- Accounting Technicians Ireland
- Institute of Certified Public Accountants Ireland (CPA)
- Master of Science in Applied Accounting
- CIMA Certificate in Business Accounting
- CIMA Masters Gateway
- ACCA Diploma in Accounting & Business
- ACCA Programme (Level 9) (Full-time)

SHORT COURSE

- Introductory Book-Keeping and Accounting

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation, and timetable arrangements will be sent to all applicants via email update.

BACHELOR OF ARTS IN HUMAN RESOURCE MANAGEMENT

(LEVEL 7)
COURSE CODE **CR_BHRMN_7**

COURSE FEE
€185 per 5 credit module (inc. exam fee)

ENQUIRIES
Olive Murphy O'Dwyer
T: 021 433 5928
E: olive.murphyodwyer@cit.ie

CIPD Approved centre

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBHRMN7**

DURATION & DELIVERY
Course commences Monday 10th September 2018.

Year 1
Semester One – Mondays & Wednesdays, 6pm – 10pm
Semester Two – Mondays, Wednesdays & Thursdays, 6pm – 10pm
Year 2
Semester One – Tuesdays & Thursdays 6pm – 10pm
Semester Two – Mondays & Wednesdays 6pm – 10pm
Year 3
Tuesdays & Thursdays 6pm – 10pm

Please note that students in Year 2 & 3 are required to attend lectures and workshops on some Saturdays during the Semester. Dates will be advised in advance. This degree has an embedded award at Level 6 whereby all students who successfully complete Year 1 of the programme will be awarded a Certificate in HR Management and Development.

AIM
The course is designed to meet the needs of those working in human resources/training and development or for someone aspiring to a career in the discipline. The course also attracts line managers, supervisors and team leaders who wish to gain people management skills.

PROGRESSION
Graduates from the BA in Human Resource Management can progress to BA (Honours) in Human Resource Management or to the Honours Bachelor of Business via one semester of Bridging Studies.

ADMISSION REQUIREMENTS
The minimum requirements are Grade D3 (ordinary level) in five subjects in the Leaving Certificate, to include Mathematics and either English or Irish. Mature students will be considered on an individual basis. This course is offered on a modularised basis and requires participants to attain 60 credits in each year.

AWARD
Bachelor of Arts in Human Resource Management (Level 7 on the National Framework of Qualifications)
Graduates of this degree are eligible for membership of the Chartered Institute of Personnel and Development (CIPD).

CONTENT
Year 1 – Modules
Creativity, Innovation & Teamwork
Introduction to Human Resource Management
Training and Development (2 X 5 credit modules)
Employment Law
Employee Relations
Employee Behaviour & Motivation
Recruitment and Selection
Performance Management
Human Resource IT
Organisational Behaviour
Communications for Business

Year 2 – Modules
Statistics & Accounting
People Resourcing Skills
Law (2 x 5 credit modules)
Industrial Relations (2 x 5 credit modules)
Current Issues in People Management
Management Practices
Diversity Management
Integrated Case Study (10 credits)
Economic Data and Principles

Year 3 – Modules
Learning & Training
Employee Rewards (2 x 5 credit modules)
Corporate Strategy Development,
Human Resource Strategy (2 x 5 credit modules)
Training and Testing
Health and Safety (2 x 5 credit modules)
HRM Profession Project
Research Methods for HRM
Project Management Framework

BACHELOR OF ARTS (HONOURS) IN HUMAN RESOURCE MANAGEMENT

(LEVEL 8)
COURSE CODE **CR_BHRMN_8**

COURSE FEE
€215 per 5 credit module (inc. exam fee)

ENQUIRIES
Caroline Conlon
T: 021 433 5900
E: caroline.conlon@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBHRMN8**

The BA (Honours) in Human Resource Management is a one year Level 8 add-on programme. This Level 8 Honours Degree will allow graduates to apply for Level 9 Masters programmes and will aid them as their career progresses to strategic roles in organisations.

DELIVERY
Semester 1 & 2 – Tuesdays & Thursdays 6pm – 10pm.
Please note that students are required to attend lectures and workshops on some Saturdays during the Semester. Dates will be advised in advance.

AIM
The programme is designed to expose students to topical issues in the Human Resource Management discipline. This degree has been designed in consultation with industry to respond to changes that have taken place in the HR area. This consultation has informed the suite of modules and their content.

ADMISSION REQUIREMENTS
Bachelor of Arts in Human Resource Management (Level 7) at grade H2.2 or higher. Graduates of cognate programmes may also be eligible. The programme is offered on a modular basis and requires learners to attain 60 credits.

COMMENCEMENT DATE
Tuesday 11th September 2018.

AWARD
Bachelor of Arts (Honours) in Human Resource Management (Level 8 on the National Framework of Qualifications).

CONTENT
All modules are worth 5 credits (ECTS) unless otherwise noted.

Semester 1
Consultancy and Research
Organisational Development
Business Finance
eHRM
Occupational Psychology

Semester 2
Managing an International Workforce
Negotiation
Emerging Markets & Trends
Corporate Strategy Implementation
Concept Acquisition

Consultancy Project (completed over the full academic year) (10 credits)

MASTER OF ARTS IN HUMAN RESOURCE MANAGEMENT

(LEVEL 9)
COURSE CODE **CR_BHRMN_9**

COURSE FEE
€5,900

ENQUIRIES
Dr Deirdre O'Donovan
T: 021 433 5907
E: deirdre.odonovan@cit.ie

CIPD
Approved centre

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBHRMN9**

DURATION & DELIVERY
Stage 1/Semester 1 & 2, and Stage 2/Semester 1 – Mondays & Wednesdays, 6pm – 10pm, with occasional Saturdays.
Stage 2/Semester 2 – Dissertation (supervision dates to be advised).

Master of Arts in Human Resource Programme is also delivered full-time over the course of one academic year.

Places are limited. Applications are assessed on a first come, first served basis.

ADMISSION REQUIREMENTS
Bachelor of Arts (Honours) in Human Resource Management (Level 8) at grade H2.2 or higher. Graduates of cognate Honours programmes who have attained HR experience may also be eligible. The programme is offered on a modular basis and requires learners to attain 90 credits.

OVERVIEW
This programme allows graduates to apply for advanced level membership of Chartered Institute of Personnel and Development, CIPD, and will aid them as their career progresses to strategic roles in organisations.

The programme is designed to expose students to current issues in the Human Resource Management domain at a strategic level. This Masters programme has been designed in consultation with industry to respond to changes that have taken place in the HR area. It is aimed at professionals in the Human Resource discipline who wish to further their career and enhance their skillset.

AWARD
Master of Arts in Human Resource Management (Level 9 on the National Framework of Qualifications).

COMMENCEMENT DATE
Wednesday 5th September 2018.

CONTENT
All modules are worth 5 credits (ECTS) unless otherwise noted.

Stage 1/Semester 1
International Corporate Strategy
Professional Employment Law
HRM in Context
Coaching and Mentoring (4 Saturdays)

Stage 1/Semester 2
Applied Corporate Strategy
Employee Engagement
Leading, Managing & Developing
Training & Knowledge Management

Stage 2/Semester 1
Research Methods
Reward & Incentive Management
Performance Management
Sourcing & Testing

Stage 2/Semester 2
HRM Dissertation (30 credits)

MASTER OF BUSINESS ADMINISTRATION IN STRATEGY

(LEVEL 9)

COURSE FEE
€12,500

ENQUIRIES
John Meyler
T: 021 433 5335
E: john.meyler@cit.ie

AIM
The aim of the MBA in Strategy is to enable learners to develop their leadership and strategic management skills, thus raising their individual performance and assisting their organisations achieve success. The MBA enables the learner, as a professional, to review their leadership and management style and identify how they can improve upon same to increase their effectiveness at a senior level in the workplace. The programme allows learners to develop an appreciation of the interconnectedness of all aspects of the organisation, and an appreciation of the role each function must play in delivering on organisational goals. For most learners, moving to a strategic role in their organisation requires an understanding of functions outside of their existing professional competence together with an expert command of the strategic management.

ADMISSION REQUIREMENTS
Applicants who have a minimum of an Honours Bachelor of Business or cognate degree (Level 8) or cognate discipline (H2.2) or an approved equivalent qualification are eligible to apply for entry to the programme.

Places are limited. Applications are assessed on a first come, first served basis.

CONTENT
Semester 1
- Research Methods
- Exploring Corporate Strategy
- International Performance Management
- Leadership & Organisational Behaviour

Semester 2
- Economics of Global Markets
- International Business Strategy
- Contemporary Issues in Marketing
- IT & Data Analytics

Semester 3 (One Mandatory and One Elective - 10 ECTS)
- International Business Field Trip
- Operations Strategy
- Innovation & Creativity
- Organisational Change Management
- Corporate Finance
- Services Marketing Management

Semester 4
- Research Dissertation

DURATION & DELIVERY
- Two part-time academic years (4 semesters)
- Each semester is of 15 week duration (including examinations).
- Semester 1 commences on Wednesday 5th September 2018 at 6pm in T103.
- Presentation of course consists of lectures, tutorials, case studies, visiting lectures, and site visits.

Stage 1/Semester 1 – Wednesday & Friday
Stage 1/Semester 2 – Wednesday & Friday
Stage 2/Semester 1 – Wednesday & Friday
Stage 2/Semester 2 – Research Thesis

Time: Wed 6pm-10pm; and Fri 3.30pm-9.30pm.

ACCOUNTING TECHNICIANS IRELAND

COURSE CODE **CR_BIATI_6**

COURSE FEE

Year 1: €900
Year 2: €990
(excl. exam fees payable
to Accounting Technicians Ireland)

ENQUIRIES

Ann Marie Twomey
T: 021 433 5904
E: annmarie.twomey@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBIATI6**

Note: Registration fees, annual subscription, examination fees etc. are payable to Professional Bodies for each of the accountancy courses. These are not included in the course fees quoted. Please take note of the closing dates for examination registration. Before accepting a place on this course, students are reminded to ensure that they have clearly understood all the terms of their enrolment with CIT, in particular clauses concerning refunds, deferments, waivers, course transfers, and visa applications (when applicable). Please refer to the 'Refund Policy information' at the beginning of this Handbook.

Accounting Technicians are qualified accounting professionals that work at all levels of finance. They can work in all types of organisations and are widely employed throughout the public sector, industry and commerce, and in private accountancy practices. They are involved in the day-to-day practical work of accountancy and play a key operational role in producing reliable financial information. Accounting Technicians can perform a wide range of finance roles, from accounts staff to financial controller and beyond.

DELIVERY & COMMENCEMENT DATE

Tuesday & Thursday, 6.30pm – 9.30pm / 7.00pm – 10.00pm, commencing Tuesday 11th September 2018.

AIM

To provide a qualification in Accounting and Information Skills for persons working at support levels in accounting firms and public practice, in industry and commerce, and in the public sector.

ADMISSION REQUIREMENTS

Leaving Certificate with a minimum of Grade D3 in five subjects at ordinary level. Subjects passed must include English, and either Mathematics or Accounting. Mature students without a Leaving Certificate may be admitted at the discretion of Accounting Technicians Ireland.

AWARDING BODY

Accounting Technicians Ireland

CONTENT

Year 1
Financial Accounting
Law & Ethics
Business Management
Taxation

Year 2
Advanced Financial Accounting
Advanced Taxation
Integrated Accounting Systems
Management Accounting

Work Experience
Essential Accounting Skills
Advanced Accounting Skills
Personal Development for Accounting Technicians
Using Information Technology
Maintaining Accounting Systems
Maintaining Statutory Compliance

INSTITUTE INFORMATION

Accounting Technicians Ireland (ATI)
47/49 Pearse Street, Dublin 2
T: 01 649 8100 www.accountingtechniciansireland.ie

IMPORTANT DATES

Exemption Deadline: Monday 1st October 2018. Please note that applications for exemptions must be made directly to the Accounting Technicians Ireland.
Exam registration Closing Date IAS: 23rd November 2018.
All other subjects: 8th February 2019 (May sitting) and 12th July 2019 for August sitting.
Registration Closing Date for 1st year with ATI: 26 October 2018.
Registration Closing date for 2nd year/continuing students: No deadline but deadline for Stepped Payments is 26th October 2018.
New Student: ATI contact Vincent Judge at the Institute:
T: 01 6498128 E: vjudge@accountingtechniciansireland.ie.
Second year/continuing Student contact ATI:
Student Services at the Institute
T: 01 6498180 E: students@accountingtechniciansireland.ie.

INSTITUTE OF CERTIFIED PUBLIC ACCOUNTANTS IRELAND (CPA)

COURSE CODE **CR_BCPAC_8**

COURSE FEE
€395 per subject (Includes notes & revision)

ENQUIRIES
Ann Marie Twomey
T: 021 433 5904
E: annmarie.twomey@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBCPAC8**

Note: Registration fees, annual subscription, examination fees etc. are payable to Professional Bodies for each of the accountancy courses. These are not included in the course fees quoted. Please take note of the closing dates for examination registration. Before accepting a place on this course, students are reminded to ensure that they have clearly understood all the terms of their enrolment with CIT, in particular clauses concerning refunds, deferments, waivers, course transfers, and visa applications (when applicable). Please refer to the 'Refund Policy information' at the beginning of this Handbook.

CONTENT
Formation 2 – Monday & Tuesday
Management Accounting
Financial Accounting
Taxation
Information Systems

PROFESSIONAL LEVEL
Professional 1 – Tuesday & Thursday
Managerial Finance
Corporate Reporting
Corporate Laws and Governance
Auditing

Professional 2 – Monday & Thursday
Strategy & Leadership (M)
Audit Practice & Assurance Services (E)
Advanced Corporate Reporting (M)
Advanced Taxation (E)

CHOICE
CPA students will at Professional 2 Stage, tailor their qualification to their chosen career path. Those wishing to pursue a career in industry will, in most instances, elect for the Strategic Performance Management and Strategic Corporate Finance electives in addition to the two mandatory modules.

However, students intending to qualify and apply for a practice certificate must sit and pass the Auditing and Taxation elective modules.

INSTITUTE INFORMATION
The Institute of Certified Public Accountants in Ireland
17 Harcourt Street
Dublin 2
T: 01 425 1000
www.cpaireland.ie

REGISTRATION WITH CPA
01 December 2018 for April 2019 Exams
01 June 2019 for August 2019 Exams

EXAM REGISTRATION CLOSING DATE(S)
01 March 2019 for April 2019 Exams
01 August 2019 for August 2019 Eams

AWARDING BODY
Institute of Certified Public Accountants in Ireland

COMMENCEMENT DATE
September 2018
The running of this programme will be dependent on a sufficient number of students enrolling on the course. The programme may be withdrawn if this requirement is not fulfilled.

CPA INSTITUTE CONTACT DETAILS
Exams: Arran Feery T: 01 4251021 E: afeery@cpaireland.ie
Registration for new students: Sinead O'Donovan T: 01 4251016 E: sodonovan@cpaireland.ie
Exemptions: Lisa Feery T: 01 4251024 E: lfeery@cpaireland.ie

MASTER OF SCIENCE IN APPLIED ACCOUNTING

COURSE FEE

€5,000 per year. Programme duration is two years.

ENQUIRIES

Ann Marie Twomey
T: 021 433 5904
E: annmarie.twomey@cit.ie

CPA IRELAND | GOLDSTAR APPROVED EDUCATOR

COURSE & MODULE INFORMATION, EMAIL **OPD@CIT.IE** OR CALL **021 433 5900**

The MSc in Applied Accounting takes students through a combination of taught modules, self-directed learning and work based learning, achieving a level of advanced understanding and practical application in accounting. It will be offered over a two year period, with students attending CIT on two evenings per week, 6pm-10pm, during each academic year. Upon successful completion of the programme, graduates will be eligible for the award of MSc in Applied Accounting. The students will have one further year of training with their employer, after which they will be eligible to apply for membership of CPA Ireland.

CONTENT

Year One

Modules - Full Academic Year	Credits	**Semester One Modules**	Credits
Advanced Corporate Reporting (P2)	10	Strategic Corporate Finance	5
Strategy & Leadership (P2)	10	Communications & Professional Development	5
		Semester Two Modules	Credits
		Research Methods	5

Year Two

Modules - Full Academic Year	Credits	**Semester Three Modules**	
Audit Practice & Assurance (P2)	10	Data Analytics & Strategy	5
Advanced Taxation (P2)	10	**Semester Four Modules**	
		Accounting Inquiry (Research)	20
Work-Based Learning – year one and year two			10

PROFESSIONAL LEVEL

Professional 1 – Tuesday & Thursday
Managerial Finance
Corporate Reporting
Corporate Laws and Governance
Auditing
Professional 2 – Monday & Thursday
Strategy & Leadership (M)
Audit Practice & Assurance Services (E)
Advanced Corporate Reporting (M)
Advanced Taxation (E)

ENTRY CRITERIA

The typical candidate will have a Level 8 Honours Degree in Accounting at grade H2.2 or above, along with exemptions up to and including Professional 1 from CPA Ireland. An international student must also have an IELTS of 6.5 or above to be considered for entry to this Masters. Candidates that do not have the appropriate undergraduate degree may still be considered for admission to this Masters under exceptional circumstances if, for example, they have secured the Professional 1 CPA Ireland suite of exams and have appropriate work experience.

INSTITUTE INFORMATION

The Institute of Certified Public Accountants in Ireland
17 Harcourt Street, Dublin 2
T: 01 425 1000 www.cpaireland.ie

REGISTRATION WITH CPA

01 December 2018 for April 2019 Exams
01 June 2019 for August 2019 Exams

EXAM REGISTRATION CLOSING DATE(S)

01 March 2019 for April 2019 Exams
01 August 2019 for August 2019 Eams

AWARDING BODY

Institute of Certified Public Accountants in Ireland
Cork Institute of Technology

COMMENCEMENT DATE

September 2018
The running of this programme will be dependent on a sufficient number of students enrolling on the course. The programme may be withdrawn if this requirement is not fulfilled.

CPA INSTITUTE CONTACT DETAILS

Exams: Arran Feery T: 01 425 1021 E: afeery@cpaireland.ie
Registration for new students: Sinead O'Donovan
T: 01 425 1016 E: sodonovan@cpaireland.ie
Exemptions: Lisa Feery T: 01 425 1024 E: lfeery@cpaireland.ie

CIT in Partnership with CIMA

CIT has built a strong reputation in terms of empowering students with the necessary skills to succeed in business. CIMA's qualification is driven by the needs of business to produce financially qualified business leaders. There are currently 7,800 CIMA members and students in Ireland working in industry, commerce and non-profit organisations.

In partnership with CIMA, CIT offers three programmes:
- CIMA Certificate in Business and Accounting
- CIMA Gateway

CIMA CERTIFICATE IN BUSINESS ACCOUNTING

COURSE CODE **CR_BBUAC_X**

COURSE FEE

€1,500 (includes recommended CIMA textbooks), plus €300 for CIMA examinations

ENQUIRIES

Ruth Vance
T: 021 433 5808
E: ruth.vance@cit.ie
E: cima@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBBUACX**

The Certificate in Business Accounting is CIMA's entry level accounting qualification for students with little or no accounting background. The Certificate level gives the student business experience beyond just financial accounting and you will gain insight into how the different areas of accounting relate to the business world. It can be seen as a knowledge refresher course or a foundation to a career in business and finance. The Certificate in Business Accounting forms the basis of the CIMA Professional Qualification and is a valuable qualification on its own.

Graduate with the CIMA Certificate in Business Accounting
- Study one subject per month for four months
- Successfully complete the relevant examination at the end of each month

AWARD

Candidates are eligible for the award of CIMA Certificate in Business Accounting having successfully completed all four examinations.

DELIVERY

Complete one subject at a time:
Fundamentals of Management Accounting
Fundamentals of Financial Accounting
Fundamentals of Business Economics
Fundamentals of Ethics, Corporate Governance & Business Law

SUBJECT DELIVERY

1 x 2hr introductory session (Wednesday 6pm – 8pm)
2 x 8hr full day sessions (2 x Saturdays 9am – 4pm))
1 x 2hr revision and QBR session (Wednesday)

To register with CIMA, visit www.cimaglobal.com/irelandregister

To find out more about steps to join CIMA (entry routes, exemptions, study options, etc.) check out www.cimaglobal.com/findoutmore

CIT in Partnership with CIMA

CIMA MASTERS GATEWAY

The CIMA Masters Gateway entry route is for those CIT Master of Business (Accounting major) graduates wishing to fast track their professional qualification by becoming a CIMA qualified management accountant.

Under this initiative, as a Master of Business in Accounting graduate, you can study for a single fast-track case study exam awarding the CIMA Advanced Diploma in Management Accounting and 11 exemptions from the CIMA Professional Qualification. The CIMA Masters Gateway entry route is for those CIT Master of Business (Accounting major) graduates wishing to fast track their professional qualification by becoming a CIMA qualified management accountant. Under this initiative, as a Master of Business in Accounting graduate, you can study for a single fast-track exam awarding with the CIMA Advanced Diploma in Management Accounting and 11 exemptions from the CIMA Professional Qualification.

Once you have achieved the CIMA Advanced Diploma, you will be able to progress straight through to the Strategic Level of the CIMA Professional qualification.

The Gateway assessment exam comprises the management level case study exam. For more information, please contact Claire Lambert at CIMA, T: 01 643 0429 E: claire.lambert@aicpa-cima.com or E: cima.ireland@aicpa-cima.com

ACCA DIPLOMA IN ACCOUNTING & BUSINESS

COURSE CODE **CR_BACCB_6**

COURSE FEE
€1,500 (excludes examination fees)

ENQUIRIES
Martin O'Sullivan
T: 021 433 5904
E: martin.osullivan@cit.ie

APPROVED LEARNING PARTNER ACCA Gold

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBACCB6**

Note: Registration fees, annual subscription, examination fees etc. are payable to Professional Bodies for each of the accountancy courses. These are not included in the course fees quoted. Please take note of the closing dates for examination registration. Before accepting a place on this course, students are reminded to ensure that they have clearly understood all the terms of their enrolment with CIT, in particular clauses concerning refunds, deferments, waivers, course transfers, and visa applications (when applicable). Please refer to the 'Refund Policy information' at the beginning of this Handbook.

CIT has been awarded Gold Status as part ACCA Approved Learning Partners. Gold status is awarded to tuition providers who have demonstrated that they can meet a range of challenging performance targets set by ACCA.

DELIVERY
Tuesday 6pm – 10.00pm & Wednesday 6.30pm – 9.00pm

The Diploma is suitable for those aspiring to work or already working in the following types of roles e.g. basic bookkeeping, trainee accountant in a commercial organisation or accounting practice, accounts clerk in public or private sector.

The Diploma in Accounting and Business is broadly equivalent to HND level/equivalent to the first year of a degree.

SUBJECTS
F3 Financial Accounting (FFA);
F2 Management Accounting (FMA);
F1 Accounting in Business (FAB);
Foundations in Professionalism (offered entirely online via ACCA).

PROGRESSION
Students who successfully complete the Diploma in Accounting and Business via Foundations in Accountancy can either:
transfer to the ACCA Qualification and commence their studies at F4 onwards of the ACCA Qualification
OR
continue to study for the Certified Accounting Technician (CAT) Qualification. However, please note students who continue with the CAT Qualification will have to complete a further 6 CAT exams and gain one year's relevant work experience. The CAT qualification involves completing 9 exams, three of which you will have completed as part of the Diploma in Accounting in Business, and one year's relevant work experience.

CONTENT
Subjects FFA, FMA and FAB will be taught from October to May with examinations taking place in early June.

AWARD
Diploma in Accounting & Business
Awarding Body: Association of Chartered Certified Accountants (ACCA).

Exemptions
Candidates may be eligible to apply for Exemptions. These may be viewed at www.accaglobal.com/exemptions

Registration Details
Students must apply to CIT before 1st September. Students must also register online with ACCA by December at W: www.accaglobal.com/applynow and also register directly with ACCA for paper based exams.

Note: ACCA registration, exam and exemption (if applicable) fees are payable directly to ACCA. CIT fee to be paid on registration.

Institute Information
ACCA Ireland, 9 Leeson Park, Dublin 6
T: 01 447 5678 E: info@ie.accaglobal.com
www.accaglobal.com

ACCA PROGRAMME

COURSE FEE
€5,500 + €7 USI Levy

ENQUIRIES
Don Crowley
T: 021 433 5900
E: don.crowley@cit.ie

APPROVED LEARNING PARTNER – ACCA – Gold

(LEVEL 9) (FULL-TIME)
COURSE CODE **CR_BACCA_9**

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBACCA9**

Note: Registration fees, annual subscription, examination fees etc. are payable to Professional Bodies for each of the accountancy courses. These are not included in the course fees quoted. Please take note of the closing dates for examination registration. Before accepting a place on this course, students are reminded to ensure that they have clearly understood all the terms of their enrolment with CIT, in particular clauses concerning refunds, deferments, waivers, course transfers, and visa applications (when applicable). Please refer to the 'Refund Policy information' at the beginning of this Handbook.

In order to ensure that students can sit their ACCA examinations in December it is their responsibility to register with ACCA by using the following link: www.accaglobal.com/applynow.

ACCA operates in 170 countries with 493,500 students and qualified members. The ACCA qualification is recognised nationally and internationally and offers great job prospects. Qualified ACCA members can work in practice, business/industry, financial services, academia and public sector.

CIT has been awarded Gold Status as part ACCA Approved Learning Partners. Gold status is awarded to tuition providers who have demonstrated that they can meet a range of challenging performance targets set by ACCA.

AIM
The aim of this full-time day programme is to provide graduates with the opportunity to complete all Professional Level subjects from the ACCA qualification. This will enable them to find roles in either practice or industry and complete the work experience necessary to qualify as an ACCA. The advantage of completing this programme is that graduates will have their ACCA studies completed before they commence work and will not have to try to combine work and study.

ADMISSION REQUIREMENTS
Applicants who have a minimum of an Honours Bachelor of Business in Accounting or an approved equivalent qualification and who qualify for exemptions from previous levels of the ACCA qualification are eligible to apply for entry to the programme.

Note: Applicants should contact ACCA directly to verify their exemptions before registering for the programme. The ACCA Connect customer service centre is open 7 days a week, 365 days a year, and can be contacted T: (01) 447 5678 or E: irelandinfo@accaglobal.com

Programme fee includes the following:
- Course/lecture notes for all four professional subjects;
- 2/3 day revision course with accompanying notes;
- Registration Fee;
- Mock exams in each subject;
- Question based revision (QBR).

Please note that candidates are also required to pay fees directly to ACCA.

CONTENT
Subjects offered:
- Strategic Business Reporting (SBR)
- Strategic Business Leader (SBL)
- Advanced Taxation
- Advanced Audit and Assurance

DURATION
One academic year.

COMMENCEMENT DATE
September 2018.
Examinations in December 2018, March 2019 and June 2019.
Early registration is recommended as places are limited.

INTRODUCTORY BOOK-KEEPING AND ACCOUNTING

COURSE CODE **CR_BBACC_6**

COURSE FEE
€500

ENQUIRIES
Noreen Murphy
T: 021 433 5900
E: noreen.murphy@cit.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBBACC6**

DURATION
10 weeks. This course will be offered twice during the 2018/2019 academic year, subject to demand.

Tuesday 6.30pm – 9.30pm. Class size is limited to 20 students.

CONTENT
This course is intended to introduce participants to:
- Books of original entry
- Value added Tax (VAT)
- Receivables (debtors) and Payables (creditors) ledgers
- Treatment of PAYE, PRSI, and other deductions

The first section of the course will be dedicated to instructing students on manual processing, while the later part will concentrate on computerised accounting using the Sage Accounting Software Package.

This course is a good 'stepping stone' to the Institute of Accounting Technicians (IATI) and Higher Certificate in Business.

COMMENCEMENT DATES
Course 1: Tuesday 25th September 2018
Course 2: Tuesday 5th February 2019

SCHOOL OF BUSINESS

DEPARTMENT OF MANAGEMENT & ENTERPRISE

HEAD OF DEPARTMENT

Dr. Breda Kenny

DEPARTMENT SECRETARY

Louise Byrne
Location: Room E1A
T: 021 433 5806
E: louise.byrne@cit.ie

COURSES

- Higher Certificate in Business (Level 6)
- Bachelor of Business in Management (Level 7)
- Bachelor of Business (Honours) (Level 8)

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation, and timetable arrangements will be sent to all applicants via email update.

All part-time courses at CIT will run subject to sufficient student numbers. Where a course cannot proceed, applicants will be contacted and advised on alternative study options.

HIGHER CERTIFICATE IN BUSINESS (ACCS)

(LEVEL 6)
COURSE CODE **CR_BBUSA_6**

COURSE FEE
€185 per 5 credit module (inc. exam fee)

ENQUIRIES
Sheila Butler
T: 021 433 5806
E: sheila.butler@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBBUSA6**

DURATION & DELIVERY
Year 1 and 2
Trimester 1: Two evenings per week, 6pm – 10pm
Trimester 2: Three evenings per week, 6pm – 10pm
Trimester 3: Two evenings per week, 6pm – 10pm

AIM
To give participants a firm foundation in Business studies in order to give them a better opportunity to gain employment, or to enable them make an immediate contribution in their place of employment. Successful completion of the course will afford students the opportunity of progressing to a Bachelor Degree or other courses.

Are you eligible for Recognition of Prior Learning (RPL)? For details, see the information section at the beginning of this Handbook.

ADMISSION REQUIREMENTS
The minimum requirements are Grade D3 (ordinary level) in five subjects in the Leaving Certificate, to include Mathematics and either English or Irish. Mature students will be considered on an individual basis.

AWARD
Higher Certificate in Business (Level 6 on the National Framework of Qualifications).

PROGRESSION
Successful graduates can progress to the Level 7 Bachelor of Business in Management or Level 8 Bachelor of Business in Accounting.

COMMENCEMENT DATE
Year 1 & Year 2: Monday 10th September 2018 at 6.00pm.

CONTENT
Year 1 – Modules, all mandatory
Organisational Behaviour
Business Mathematics & Statistics 1 & 2
Microeconomics
Fundamentals of Financial Accounting
Cost Accounting
Introduction to Marketing
Communications
Creativity, Innovation & Teamwork
Business IT Skills
Fundamentals of Management

Year 2 – Modules all mandatory
Business Decision Making
Cost & Management Accounting
Financial Accounting
Company & Partnership Accounting
Contemporary Management Issues
HRM in Contemporary Business
Professional HR Practice
Macroeconomics
Irish Legal Systems
Aspects of Civil Law
IT Communications

The complete course will extend over two years. Modules will be taught on a trimesterised basis. Official examinations will be held at the end of each term. Certification for the course is through the ACCS Scheme.

ACCS
ACCS is an acronym for "Accumulation of Credits and Certification of Subjects". This scheme allows students (for specified courses) – instead of studying an entire course – to study one or more modules of that course. Credits and Certificates are awarded for each module passed. Students who accumulate the appropriate number of modules qualify for the award of Higher Certificate.

BACHELOR OF BUSINESS IN MANAGEMENT (ACCS)

(LEVEL 7)
COURSE CODE **CR_BMNGT_7**

COURSE FEE
€185 per 5 credit module (inc. exam fee)

ENQUIRIES
Bernard Vallely
T: 021 433 5904
E: bernard.vallely@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBMNGT7**

DURATION & DELIVERY
Year 1: Two/Three evenings per week, 6pm – 10pm
Year 2: Two/Three evenings per week, 6pm – 10pm
(Extra workshops and tutorials will be provided).

AIM
This Degree is for persons who intend to make careers in professional management. The qualification will enable them to contribute more fully to the growth of their organisations and will give them access to further educational opportunities i.e. Bachelor of Business (Honours).

Are you eligible for Recognition of Prior Learning (RPL)? For details, see the information section at the beginning of this Handbook.

ADMISSION REQUIREMENTS
BMNGT_7_Y2 Bridging: A minimum of a two year Higher Certificate (Level 6) is required in a discipline other than business studies.

Note: Students in Bridging Year must account for 60 credits, either by RPL and/or course work. The module selection for each student will be carried out in conjunction with the course coordinator.

On successful completion of the Bridging Year, students can progress to a Bachelor of Business in Management.

BMNGT_7_Y3: Higher Certificate in Business, with minimum of Pass result or successful completion of the Bridging Year of the Bachelor of Business in Management (Level 7).

Graduates with a Bachelor of Business in Management can progress to a Bachelor of Business (Honours) Level 8.

ACCS
ACCS is an acronym for "Accumulation of Credits and Certification of Subjects". This scheme allows students (for specified courses) – instead of studying an entire course – to study one or more modules of that course. Modules passed, are certified individually, and can be accumulated, leading to an award of Higher Certificate, Degree or Honours Degree.

COURSE
The principle areas of study are:
Year 2 (Bridging Year) – Modules, all mandatory
Economics (10 credits)
Management (10 credits)
Information Systems (5 credits)
Financial Accounting (5 credits)
Marketing (10 credits)
Organisational Behaviour (10 credits)
Business Law (5 credits)
Business Mathematics & Statistics (5 credits)

Year 3 (Award Year) – Modules, all mandatory
Economics International Trade (5 credits)
Human Resource Management (5 credits)
Organisational Processes & Systems (10 credits)
Marketing Management (5 credits)
Project Management Framework (5 credits)
Supply Chain Management (5 credits)
Management Information Systems (5 credits)
Managerial Finance (5 credits)
Integrated Case Study (10 credits)
Business Strategy Simulation (5 credits)

AWARD
Bachelor of Business in Management (Level 7 on the National Framework of Qualifications).

COMMENCEMENT DATES
Year 1 – Monday 10th September 2018 at 6pm.
Year 2 – Tuesday 11th September 2018 at 6pm.

BACHELOR OF BUSINESS (HONOURS) (ACCS)

(LEVEL 8)

COURSE CODE **CR_BBUSN_8**

COURSE FEE

€215 per 5 credit module (inc. exam fee)

ENQUIRIES

John Meyler
T: 021 433 5335
E: john.meyler@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBBUSN8**

DURATION & DELIVERY

One academic year and one semester
Year 1: Monday & Wednesday, 6pm – 10pm
Year 2: (One semester only): Two evenings per week, 6pm – 10pm

This programme has been designed to provide a balanced education through a critical study of business.

ADMISSION REQUIREMENTS

(a) Ordinary Bachelor Degree in Business (with a minimum average mark of 50%); or
(b) Equivalent qualification.

N.B. This programme is designed to be undertaken over one academic year and one semester. A total of 60 credits (12 modules) is required to complete the programme. A maximum of 40 credits (8 modules) can normally be undertaken in the first academic year.

CONTENT

The principle areas of study are:
Mandatory – each module carries 5 credits
Strategic Analysis
Strategic Selection
Financial Management
Investment & Risk Management
Business Ethics
Enterprise & Innovation

Electives (choose 6) – **each module carries 5 credits**
Business to Business Marketing
Sales Strategy Management
Workforce Diversity
International HRM
Business Metrics
IS Strategy and Planning
Strategic Management Accounting
Strategic Performance Evaluation

ACCS

ACCS is an acronym for "Accumulation of Credits and Certification of Subjects". This scheme allows students (for specified courses) – instead of studying an entire course – to study one or more modules of that course. Modules passed, are certified individually, and can be accumulated, leading to an award of Higher Certificate, Degree or Honours Degree.

AWARD

Bachelor of Business (Honours) (Level 8 on the National Framework of Qualifications)

PROGRESSION

Graduates with an Honours Bachelor of Business with a H2.2 award or higher can apply for CIT's Taught Master of Business.

COMMENCEMENT DATES

Year 1 & Year 2: Monday 10th September 2018 at 6.00pm.

SCHOOL OF BUSINESS

DEPARTMENT OF ACCOUNTING & INFORMATION SYSTEMS

HEAD OF DEPARTMENT

Catherine Murphy

DEPARTMENT SECRETARY

Christine Boyle
Location: Room C163
T: 021 433 5920
E: christine.boyle@cit.ie

COURSES

- Bachelor of Business (Honours) in Accounting (Level 8)
- Certification in Designing Innovative Services (Level 8)
- Certificate in Capital Markets (Level 8)

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation, and timetable arrangements will be sent to all applicants via email update.

All part-time courses at CIT will run subject to sufficient student numbers. Where a course cannot proceed, applicants will be contacted and advised on alternative study options.

BACHELOR OF BUSINESS (HONOURS) IN ACCOUNTING (ACCS)

(LEVEL 8)
COURSE CODE **CR_ BACCE_8**

COURSE FEE
€215 per 5 credit module (inc. exam fee)

ENQUIRIES
Noreen Murphy (Year 3)
T: 021 433 5920
E: noreen.murphy@cit.ie
AnnMarie O'Donoghue (Year 4)
T: 021 433 6170
E: annmarie.odonoghue@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBACCE8**

DURATION & DELIVERY
This is two year programme.
Year Three is delivered 3 nights per week from 6pm – 10pm for two semesters.
Year Four is delivered over two semesters and two summers.
Each semester in Year Four involves 2 nights per week 6pm – 10pm. Each summer requires one night per week plus two Saturdays over a ten week period.
The programme will be delivered over 4 semesters and 2 summers commencing in September 2018 and finishing in August 2020.

AIM
The overall aim of the programme is to produce graduates with the specialist education and training necessary to enable them to gain employment in an Accounting/Financial capacity in any business sector.

ADMISSION REQUIREMENTS
A Higher Certificate in Business with sufficient credits in Financial Accounting, Economics, Management Accounting, Business Law and Business Mathematics & Statistics.

Graduates of Accounting Technicians Ireland will require bridging studies in the areas of Economics, Marketing, Maths and Business.

AWARD
Bachelor of Business (Honours) in Accounting (Level 8 on the National Framework of Qualifications).

PROGRESSION
Graduates with a Bachelor of Business in Accounting (Honours), with a H2.2 award or higher, may apply for CIT's Taught Master of Business. Graduates may also use their Exemptions to progress to the Professional Accountancy Bodies.

COMMENCEMENT DATE
Wednesday 12th September 2018 at 6pm.

CONTENT
Year Three Modules will be in the areas of:
Advanced Management Accounting
Financial Management Concepts
Income Tax
Single Entity and Group Accounting
Integrated Accounting Systems
Auditing – Regulation& Control
Financial Management for Accountants
Managing Human Capital
BIS Management and Applications
Management Accounting
Business And IT
Aspects of Employment Law

The principal areas of study are:
Strategic Management
Advanced Financial Management
Strategic Management Accounting
Financial Reporting
Auditing
Taxation
Corporate Governance

ACCS
ACCS is an acronym for "Accumulation of Credits and Certification of Subjects". This scheme allows students (for specified courses) – instead of studying an entire course – to study one or more modules of that course. Modules passed, are certified individually, and can be accumulated, leading to an award of Higher Certificate, Degree or Honours Degree.

CERTIFICATION IN DESIGNING INNOVATIVE SERVICES

PROGRAMME FEE
€1,250

ENQUIRIES
Dr Fred Creedon
T: 021 432 6166
E: fred.creedon@cit.ie

(LEVEL 8) (10 ECTS CREDITS)
COURSE CODE **CR_BDEIS_8**

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBDEIS8**

DURATION AND DELIVERY
4 Full Saturdays on campus
13 Tuesday evenings online
Course commences in September 2018 with another intake likely in February 2019.

ADMISSION REQUIREMENTS
A H2.2 (or equivalent) in an Ordinary Degree in any discipline. Candidates without a Level 7 qualification must be able to demonstrate sufficient relevant experience to be considered for entry. A Personal Statement must be provided by the candidate demonstrating interest or competence in design thinking and or service design. Where required, candidates may be shortlisted and required to attend for interview.

OVERVIEW
The Certificate in Designing Innovative Services is a one semester (three months) part-time programme that is designed to provide the knowledge, skills and confidence required to work in the area of service design. The course will introduce the student to design thinking skills and to the key tools and methodologies for development of services.

The industry-focus of the programme coupled with the applied nature of teaching provides a practical bedrock of knowledge and experience which can be used to immediate effect in designing services in any type of organisation. Participants will develop their analysis and design skills. On completion of this programme they will be attractive as potential designers of services across a range of industries. In particular these skills would be useful for those working within the local government arena where there is established demand.

The programme is structured to support those in full time employment. The first module Seminar Series in Design Thinking will be delivered online weekly. The second module Design Thinking for Services will have lectures with the theory content delivered online and the workshops will be delivered over 4 Saturdays. The workshops will be the more practical element of the course requiring students to use the tools and methodologies. The students will be able to use real world cases from their workplace for the applications of the tools and methodologies.

The programme will balance real world experience from experienced practitioners in the field who will present on the seminar series with supported learning on practical skills during the workshop sessions.

The seminar series module will use reflective journals for assessment. The other module will require students complete a project in service design incorporating information gathering, analysis and prototype development. This project can be from the student's own workplace.

MODULE INFORMATION
Design Thinking for Services
This module aims to provide students with the necessary theoretical knowledge and practical skills to support the execution of a design thinking approach for the design of services. The modules addresses the role of team members, approaches for understanding users, research methods, prototyping, and presentation of findings.

Design Thinking Seminar Series
This module uses an innovative approach to explore the state of the art relating to design thinking from a variety of perspectives. Speakers from diverse organisations will present a series of guest lectures on overarching challenges and students will be tasked with reflecting on integrated problems across societal, environmental and business areas. The module provides students with critical insight into implementing service innovation strategies across a range of service and organisational contexts.

CERTIFICATE IN CAPITAL MARKETS

(LEVEL 8) (20 CREDITS)
COURSE CODE**CR_BCAMA_8**

COURSE FEE
€2,000

ENQUIRIES
Elaine Casey
E: elaine.casey@cit.ie
Kieran O'Reilly
E: kieran.oreilly@cit.ie

SPRINGBOARD+
FUNDING OPTION AVAILABLE
SEE PAGE 8 FOR ELIGIBILITY

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBCAMA8**

DURATION AND DELIVERY
This part time course takes place over two evenings a week for one semester and includes a well-structured curriculum to ensure that participant's time is used wisely. Students will attend lectures for 4 hours, two nights a week. This will include classes, weekly laboratory session and talks by industry experts.

ADMISSION REQUIREMENTS
An Honours Degree (Level 8) in any discipline or a Pass Degree (Level 7) combined with some professional experience. Applications will be assessed on a case by case basis and when required, candidates may be short listed for an interview.

COURSE SUMMARY
This evening course will focus on developing the fundamental and practical knowledge that new or recent graduates will need to work in capital markets, treasury funds and the financial sector. The Irish Government has targeted the expansion of the Financial Services Industry as a key policy objective for the medium term. Cork has established itself as a top class location for Financial Services and CIT's new programme aims to support the location of this industry in Cork.

Whilst the Certificate in Capital Markets is suitable for degree holders of any discipline, applicants should be aware that the numerical and computer based component (spreadsheets) is significant and all project work will involve the use of financial models and techniques and spreadsheet tools.

Participants who successfully complete the course will be attractive as potential employees of fund administration and fund management companies, international banks, and treasury organisations. The skills developed on this course would also be relevant to entry level positions in the finance department of large organisations.

MODULE INFORMATION
The programme comprises 4 modules each worth 5 credits.

Capital Markets
This module covers the important concepts in capital markets i.e. different assets, asset markets and the operations involved in the trading of those assets.

Securitisation & Derivatives
This module covers the important components in the application and management of structured finance and derivatives products in investment finance. The analysis will be quantitative and will require considerable use of spreadsheet tools.

Valuation & Pricing
This module covers the important quantitative techniques used in the valuation and processing of capital markets instruments by investment managers.

Capital Markets Regulation
This module covers the important concepts and applications in the regulation of capital markets.

The module descriptors online will also provide information on average weekly workload, recommended reading material, assessments and exams.

SCHOOL OF BUSINESS

DEPARTMENT OF MARKETING & INTERNATIONAL BUSINESS

HEAD OF DEPARTMENT

Dr Pio Fenton

DEPARTMENT SECRETARY

Shirley O'Driscoll
Location: Room E11
T: 021 433 5939
E: shirley.odriscoll@cit.ie

COURSES

- Certificate in Digital Marketing (Level 8)
- Master of Science in Digital Marketing Strategy (Level 9)
- Higher Diploma in Business in Sales Management (Level 8)
- Master of Science in International Business (Level 9)

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation, and timetable arrangements will be sent to all applicants via email update.

All part-time courses at CIT will run subject to sufficient student numbers. Where a course cannot proceed, applicants will be contacted and advised on alternative study options.

CERTIFICATE IN DIGITAL MARKETING

(LEVEL 8) (20 ECTS CREDITS)
COURSE CODE **CR_BDMRK_8**

COURSE FEE
€1,500

ENQUIRIES
Zahid Aslam
E: zahid.aslam@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBDMRK8**

DURATION & DELIVERY
4 full Saturdays and 12 Tuesday evenings over a 15 week period. Course commences on Saturday 15th September (with likely second intake in February 2019). This programme can be taken as an online programme or by attending classes at CIT's Bishopstown Campus.

ADMISSION REQUIREMENTS
Level 7 or Level 8 degree or relevant experience in an industry role. Candidates may be required to undertake an interview at CIT before admission to the course.

OVERVIEW
This short programme consists of four modules (5 credits each) which will run over one semester. The Certificate in Digital Marketing is a 15 week part-time programme entailing lab work, seminars, and live-case work that is designed to provide the knowledge, skills and confidence required to successfully market business in a digital environment. The programme uses an innovative blend of real-world situations and problems to assist participants in exploring the opportunities of the digital environment.

The industry focus of the programme coupled with the applied nature of teaching provides a practical bedrock of knowledge and experience which can be used to immediate effect in a multitude of business contexts. Participants will explore various social media platforms, website technologies (including mobile), analysis tools and much more in developing a toolbox of skills that is valuable and readily usable in a B2C and B2B environment. The programme is structured to ensure that participant's time is used wisely and entails a wide variety of speakers drawn from the business world. An innovative blend of lectures, seminars, workshops and labs is used to ensure that the programme is relevant, engaging and enjoyable.

AIM
The programme has been developed to ensure that participants are developing sustainable skills and knowledge that underpin digital marketing. Specifically, the programme aims:

1. To develop knowledge of digital marketing tools and technologies in the context of the strategic direction of a business.
2. To integrate traditional marketing principles into marketing activity in online and mobile environments.
3. To apply practical skills to web design to ensure optimised web/mobile platforms using SEO and content management strategies.

CONTENT
- **Digital Marketing Environment** – This module explores the current marketing landscape with emphasis on the challenges posed by the digital context in which many businesses are now operating. This module is delivered using workshops and seminars.
- **Digital Advertising and Social Media** – This practical lab based module will enable students to formulate an integrated digital marketing communications campaign. Students will also learn how to leverage a company's presence on social media platforms to generate more connections and build relationships with customers.
- **Website Optimisation and Analytics** – Many businesses are using inefficient and outdated websites that perform poorly in terms of search engine optimisation. This module will focus on the development of websites using existing technologies such as Wordpress and similar content management systems.
- **Applied Digital Marketing Strategy** – This module acts as a capstone on the certificate and draws together learning from the above areas with a particular focus on developing a strategic context for content, technology and alternative platforms.

PROGRESSION OPPORTUNITIES
The Certificate in Digital Marketing is part of the Master of Science in Digital Marketing Strategy. Completion of this programme may allow entry to Semester 2 of that Masters programme.

MSC IN DIGITAL MARKETING STRATEGY

(90 CREDITS)
COURSE CODE **CR_BDMAS_9**

COURSE FEE
€7,500 payable over 2 years

ENQUIRIES
Dr Pio Fenton
T: 021 433 5922
E: pio.fenton@cit.ie
W: www.cit.ie/mscdigmarketing

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBDMAS9**

OVERVIEW
Digital Marketing allows companies to connect with and understand their customers in the newest and most exciting of ways. It can be thought of as a set of strategies and tools that, due to their reach and measurability, offers a vibrant complement to traditional marketing. Over the last few years, more and more companies have shifted their Marketing budgets towards Digital Marketing. With this trend set to continue, and an ever-widening set of tools available, CIT has launched an innovative Masters in Digital Marketing Strategy programme. CIT has developed a strong track record in providing short Digital Marketing programmes over the last few years and has found the level of expertise and insight developed through such programmes to be unparalleled.

STRUCTURE
The Masters in Digital Marketing Strategy is a part-time, two year Level 9 course (90 ECTS) aimed at those working in traditional and digital marketing or those aspiring towards a senior position that require a solid foundation in multiple aspects of digital marketing. The course will be delivered from CIT's Bishopstown campus during Saturdays and weekday evenings, or online.

All assessment is by project work, reports and similar mechanisms; there are no final terminal exams.

INDICATIVE TIMETABLE
- Stage 1/ Semester 1: 4 Saturdays and 15 Tuesday evenings (those that have completed the Certificate in Digital Marketing have completed Semester 1 already)
- Stage 1/Semester 2: 6 Saturdays and 15 Wednesday evenings
- Stage 2/Semester 1: 6 Saturdays and 15 Wednesday evenings
- Stage 2/Semester 2: Independent Research activity with Supervision support from CIT.

1. Candidates ideally should have attained at least a H2.2 degree in a cognate area (an area related to business, media or visual communications).
2. Degree-holders from non-cognate areas will be considered provided that these candidates can demonstrate significant relevant industrial experience.

DURATION
Part-time: 4 semesters.
Also available as an online programme.

Stage 1/Semester 1	Stage 1/Semester 2	Stage 2/Semester 1	Stage 2/Semester 2
Digital Marketing Environment	Digital Strategy Development	Integrated Strategy & Planning	Applied Digital Marketing Project (Action Research)
Social Media & Digital Advertising	Digital Advertising & Analytics	Search Engine Optimisation & Analytics	
Website Optimisation & Analytics	**Elective:** The Digital Consumer	**Elective:** Digital Brand Development	
	Elective: E-Commerce & Goal Driven Sites	**Elective:** Lead Generation & Enabling Sales	
Strategy for Digital Marketing	Professional Development for Marketing	Action Research Methods	

HIGHER DIPLOMA IN BUSINESS IN SALES MANAGEMENT

(LEVEL 8) (60 ECTS CREDITS)
COURSE CODE **CR_ BSMGT_8**

COURSE FEE
€3,950

ENQUIRIES
Jane Leonard
E: jane.leonard@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBSMGT8**

OVERVIEW
The Higher Diploma in Business in Sales Management is a part-time one-year Level 8 degree 60 credit programme aimed at those working in or aspiring to sales management roles that have a foundation of experience in a sales environment.

Using innovative delivery teaching approaches the programme is a flexible undertaking for those with busy lifestyles. Incorporating online delivery that is supported by traditional residential classroom delivery, participants will have the opportunity to mix with their peers while also developing their knowledge in their own time. An innovative industry based Applied Project is undertaken which adds real value to the practitioner and their work environment while a flexible Seminar Series provides substantial networking exposure.

The programme has a constant practical real-world focus and lecturers will have extensive experience in a sales environment.

AIM
This programme serves two purposes; to enhance the critical thinking abilities, understanding of business and personal development avenues for the candidate, and also contributing value to the organisation of the participant through an injection of new ideas and more strategic thinking. The programme is focused on facilitating the development of the individual and the organisation.

CONTENT
Mandatory
Effective Sales Techniques (10 Credits)
Organisational Sales Strategy (10 Credits)
Sales Seminar Series (5 Credits)
Sales & Marketing Finance (5 Credits)
Applied Sales Project (20 Credits)

Electives
Sales Force Management (5 Credits)
The Digital Environment (5 Credits)
Sales Ethics and Law (5 Credits)
International Selling (5 Credits)

DURATION & DELIVERY
Stage 1/Semester 1 & 2
5 Saturdays 9am – 6pm
12 Wednesdays 6.30pm – 9.30pm

Summer
In-work activity with supervision focused on the Applied Project

ADMISSION REQUIREMENTS
1. Candidates ideally should hold a Level 8 qualification in any discipline. Participants with such a qualification require 2 years' experience in a role cognate to sales.
2. Candidates without a Level 8 qualification must be able to demonstrate sufficient relevant experience. Are you eligible for Recognition of Prior Learning (RPL)? For details, see the information section at the beginning of this Handbook.
3. Candidates will be required to undertake an interview at CIT before admission to the course.

COMMENCEMENT DATE
26th September 2018.

MASTER OF SCIENCE IN INTERNATIONAL BUSINESS

(90 CREDITS)
COURSE CODE **CR_BINTB_9**

COURSE FEE
€5,500 payable over 2 years

ENQUIRIES
Dr Anne Marie Ivers
E: annemarie.ivers@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, **WWW.CIT.IE/MSC-INTERNATIONAL-BUSINESS**

OVERVIEW
This two-year part-time programme is geared at providing non-business graduates with the skills required to develop and promote products and services in an international environment while furthering their business skills and knowledge. Students build upon their own discipline (science, engineering, computing etc) to develop solid understanding of Business Development, Internationalisation and Innovation in an interesting educational environment. Students will expand their business knowledge and skills through simulation, guest speakers and an international trip. Students will also undertake an industry consultancy project which will prepare them for opportunities in the workplace. The programme is an excellent opportunity for students who want to complement their degree with business skills.

AIM
This programme is ideal for anyone with a technical or scientific background who is looking to develop their understanding of business:

- Career advancement – Graduates with complementary skillsets (e.g. Business and Computing) find employment opportunities more easily.
- Internationalisation – The world marketplace is increasingly global – having an understanding of and an appreciation for that is very useful.
- Industry Engagement – This programme exposes students to industry in a very integrated way that corresponds with the student's development over the year.

INTERESTING FEATURES
Field Trip
The international Business Field Trip is an opportunity for immersion in non-Irish culture which serves to enhance and deepen the learning experience for students involved. The five day field trip will entail preparation work, learner activity while on the trip, and subsequent submissions following the trip. The trip focuses on the skills required to develop business opportunities in new markets.

Seminar Series
The Seminar Series module allows students the opportunity to draw upon their learning throughout the programme and to synthesise that in the context of some direct exposure to industry leaders. Speakers, drawn from the private, public and voluntary sectors, will be invited to speak on a weekly basis and to explore concepts relating to leadership, growth, change, people management, the macro environment, and personal & professional development.

Applied Business Project
The Applied Business Project is a capstone module which brings together the learning from the programme which is applied to a business-set project. Students will undertake a significant piece of work tacking a project for a linked company on a consultancy basis. The project will help to develop analysis and research skills but also further a student's understanding of the international environment.

ADMISSION REQUIREMENTS
This programme is geared at non-business students. As applicants will emanate from non-business areas the following entry criteria need to be met:

1. A H2.1 in an Honours Degree from a non-Business area.
2. A Personal Statement must be provided by the applicant.
3. An interview may be held with certain applicants.
4. An IELTS of 6.5 (or equivalent) will be requested of non-EU students where deemed appropriate by the Head of Department.

CONTENT

Part-Time Delivery

Stage 1 **Semester 1** (September to January)	Monday 6pm to 10pm 3 Saturdays (9am to 5pm, Dates TBC)	Strategic Thinking International Selling & BD Innovation Management & Creativiity
Stage 1 **Semester 2** (January to May)	Monday 6pm to 10pm 3 Saturdays (9am to 5pm, Dates TBC) 5 Day International Trip mid-February	Global Marketing Management Financial Mgmt & Systems Economics of Global Markets Field Trip
Stage 2 **Semester 1** (September to December)	Monday 6pm to 10pm Thursday, 6pm-8pm (Project Preparation) 4 Saturdays (9am to 5pm, Dates TBC)	Sustainable Marketing Practice Technology Management People Management Digital Environment
Stage 2 **Semester 2** (January to August)	Project Work (self-directed) Seminar Series (Occasional Dates – TBC) Simulation 4 Week Day Evenings – Once Off, Dates TBC	Action Research Project Seminar Series Simulation

SCHOOL OF HUMANITIES

HEAD OF SCHOOL

PROFESSOR MARGARET LINEHAN

The School consists of the following Departments:

- Applied Social Studies
- Tourism & Hospitality
- Sport, Leisure, and Childhood Studies

Information evening for continuing education courses for the School of Humanities will take place at the CIT Bishopstown Campus on Tuesday, 4th September 2018, 6.00pm to 8.00pm. School of Humanities staff will be in attendance to offer career guidance and assistance.

WWW.CIT.IE

SCHOOL OF HUMANITIES

DEPARTMENT OF APPLIED SOCIAL STUDIES

HEAD OF DEPARTMENT

Jim Walsh

DEPARTMENT SECRETARY

Helen Dillon
Location: Room G2.13
T: 021 433 5310
E: helen.dillon@cit.ie

COURSES

- One Year Certificate in Counselling Skills (Level 6)
- Higher Certificate in Arts in Counselling Skills (Level 6)
- Bachelor of Arts (Honours) in Counselling & Psychotherapy (Level 8)
- Master of Arts in Integrative Psychotherapy (Level 9)
- Master of Arts in Play Therapy (Level 9)
- Certificate in Advanced Clinical Practice with Children and Families (Level 9)

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation, and timetable arrangements will be sent to all applicants via email update.

All part-time courses at CIT will run subject to sufficient student numbers. Where a course cannot proceed, applicants will be contacted and advised on alternative study options.

ONE YEAR CERTIFICATE IN COUNSELLING SKILLS

COURSE CODE **CR_HCOUI_6**

COURSE FEE
€1,990

ENQUIRIES
Úna Coakley
T: 087 6691584 E: una.coakley@cit.ie
Dr Geraldine Sheedy
T: 021 433 5315 E: geraldine.sheedy@cit.ie

COURSE & MODULE INFORMATION, VISIT **WWW.CIT.IE/COURSE/CRHCOUI6**

AIM
This course aims to meet the needs of people who require an introductory training in Counselling for use in their existing work or life situations. Additionally, the course aims to provide a foundational introduction for those students who wish to pursue further training in Counselling.

DUAL RELATIONSHIPS
Due to the personal and experiential nature of the course, it is generally not possible to have staff or students with significant existing personal or professional relationships in the same course group. Where possible, every effort is made to overcome this difficulty by placing them in separate groups. Oftentimes this solution is not possible and in these instances, the dual relationship may prevent the applicant from being offered a place on the course at that time.

PERSONAL THERAPY
Students are required to undertake a minimum of 20 sessions of personal therapy during the One Year Certificate Course. The cost of this is separate to the course and is arranged directly between the student and the therapist. To fulfil this requirement, students may be offered the option to avail of low cost Counselling, if desired.

DURATION & DELIVERY
The course is offered over two semesters from September to May. Each semester has 5 modules. Dates are arranged when the course begins. Attendance at all sessions is a requirement. The course is offered on a part-time basis for the duration of the academic year as follows:

- Theory and Application Programme – one evening per week – Mondays 6.30pm – 9.30pm.
- Counselling Skills Workshops – one additional evening every four to five weeks 6.30pm – 9.30pm.
- Experiential Group Process – Ten Saturdays, 10.00am – 5.00pm spread throughout the year.

ADMISSION REQUIREMENTS
Applicants must:

1. Be over 25 years of age at the date of registration;
2. Be assessed through interview;
3. Submit two written references (see application form for details).

APPLICATION
A special application form is required for this course. It can be downloaded from the College website www.cit.ie/course/CRHCOUI6 and should be returned to Úna Coakley, Department of Applied Social Studies, Cork Institute of Technology, Bishopstown, Cork, on or before 18th May 2018. Please mark envelope One year Certificate application. Interviews will be scheduled as early as possible after the closing date.

AWARD
The One Year Certificate in Counselling Skills is awarded by Cork Institute of Technology on the basis of satisfactory attendance as well as the submission of written work and the satisfactory completion of practical and experiential assignments. The Certificate recognises that the student has successfully completed an introductory training in Counselling Skills which should enable him/her to practice basic counselling skills within his/her existing role.

NB: It is not a professional qualification in Counselling and does not qualify the holder to practice as a professional counsellor.

HIGHER CERTIFICATE IN ARTS IN COUNSELLING SKILLS

(LEVEL 6)

COURSE CODE **CR_ HCOUN_6**

APPLICATION

Request an application form by E: helen.dillon@cit.ie

COURSE FEE

€2,200

ENQUIRIES

Úna Coakley
T: 087 6691584 E: una.coakley@cit.ie
Dr Geraldine Sheedy
T: 021 433 5315 E: geraldine.sheedy@cit.ie

COURSE & MODULE INFORMATION, VISIT **WWW.CIT.IE/COURSE/HCOUN6**

AIM

This course is being offered to students who have successfully completed the One Year Certificate in Counselling Skills or its equivalent. It aims to consolidate and expand upon the One Year Certificate foundational training, thus providing students with an introduction to counselling for use in their existing work or voluntary settings. The course also aims to facilitate interested students to reach the level of training and development required to work with clients during the professional practitioner training programme in the BA in Counselling and Psychotherapy Years 3 and 4.

DUAL RELATIONSHIPS

Due to the personal and experiential nature of the course, it is generally not possible to have staff or students with significant existing personal or professional relationships in the same course group. Where possible, every effort is made to overcome this difficulty by placing them in separate groups. Oftentimes this solution is not possible and in these instances, a dual relationship may prevent the applicant from being offered a place on the course at that time.

PERSONAL THERAPY

Students are required to undertake personal therapy weekly during the Higher Certificate course. The cost of this is separate to the course and is arranged directly between the student and the therapist.

DURATION & DELIVERY

The course is offered on a part-time basis over two semesters from September to May. Each semester has 5 modules. Attendance at all sessions is a requirement. The regular sessions will be held on week evenings – 6.30pm to 9.30pm. Alternatively some of the sessions may be held on Saturday 10.00am to 5.00pm. There will be two weekend workshops in addition to the regular weekly sessions. There will also be five evening skills workshops.

ADMISSION REQUIREMENTS

Applicants must

1. Be over 25 years of age at the date of registration;
2. Have successfully completed the One Year Certificate in Counselling Skills or its equivalent;
3. Be assessed through interview;
4. Submit two written references (for applicants who have not already been on a prior stage of the course). See application form for details.

National Vetting Bureau: CIT uses the National Vetting Bureau (NVB) to help assess the suitability of all applicants on this programme. Visit www.cit.ie/gardavetting

APPLICATION

A special application form is required for this course. It can be downloaded from the College website www.cit.ie/course/HCOUN6 and should be returned to Úna Coakley, Department of Applied Social Studies, Cork Institute of Technology, Bishopstown, Cork. Please mark envelope Higher Certificate application. Closing date for completed application forms is Friday, 4th May 2018.

AWARD

The Higher Certificate in Counselling Skills is awarded on the basis of satisfactory attendance as well as the submission of written work and the satisfactory completion of practical and experiential assignments. The Higher Certificate recognises that the student has undertaken a comprehensive training in Counselling Skills which should enable him/her to practice a full range of counselling skills within a pre-existing role. It is not a professional qualification in Counselling and does not qualify the holder to practice as a Professional Counsellor.

NB: To achieve a professional qualification, it is necessary to complete Bachelor of Arts (Honours) in Counselling and Psychotherapy, years 3 and 4.

BACHELOR OF ARTS (HONOURS) IN COUNSELLING & PSYCHOTHERAPY (YEARS 3 & 4)

(LEVEL 8)
COURSE CODE **CR_HCOUN_8**

COURSE FEE
Year 3: €2,975
Year 4: €2,975

ENQUIRIES
Úna Coakley
T: 087 6691584
E: una.coakley@cit.ie
Dr Geraldine Sheedy
T: 021 433 5315
E: geraldine.sheedy@cit.ie

COURSE & MODULE INFORMATION, VISIT **WWW.CIT.IE/COURSE/CRHCOUN8**

The Bachelor of Arts (Honours) in Counselling & Psychotherapy is a four year course comprising the following:

Year 1: The One Year Certificate in Counselling Skills
Year 2: The Higher Certificate in Arts in Counselling Skills
Year 3: Bachelor of Arts (Honours) in Counselling & Psychotherapy – Year 3
Year 4: Bachelor of Arts (Honours) in Counselling & Psychotherapy – Year 4

AIM
This course is a professional practitioner training in Counselling and Psychotherapy. Its aim is to develop reflective and skilled practitioners who will have attained the requisite knowledge, personal development and competence to provide Counselling and Psychotherapy in a professional manner. The core theoretical orientation of the course is integrative. The core humanistic elements are Person Centred, Gestalt and Transactional Analysis. The course also draws substantially from the relational end of Psychoanalysis. Some elements from the Cognitive and Behavioural traditions are also included.

WORK WITH CLIENTS
Students will be required to carry out 100 hours of Counselling work with clients during the training. They will be required to obtain supervision for this work from a supervisor nominated by CIT. Payment for supervision will be made directly by students and is not included in the course fee.

PERSONAL THERAPY
Students will be required to have undertaken at least 100 sessions of personal therapy before the completion of their training. The cost of this is separate to the course and is arranged directly between the student and the therapist.

DUAL RELATIONSHIPS
Due to the personal and experiential nature of the course, it is generally not possible to have staff or students with significant existing personal or professional relationships in the same course group. Where possible, every effort is made to overcome this difficulty by placing them in separate groups. Oftentimes this solution is not possible and in these instances, a dual relationship may prevent the applicant from being offered a place on the course at that time.

DURATION & DELIVERY
The course is offered over two semesters from September to May each year. Each semester has 5 modules. The regular sessions will be held on two evenings per week 6.30pm to 9.30pm. Alternatively, some of the evening sessions could be transferred to Saturday. When a Saturday is involved it would replace two evening sessions. During Year 3, there will be two weekend workshops in addition to the regular weekly sessions. There will be occasional evening skills workshops in Year 3.

The course has five key elements which are integrated in the training, using a strong experiential and practical focus. These are

1. Counselling and Psychotherapy Theory and Application
2. Practitioner Development
3. Experiential Group Process/personal process integration
4. Supervised Counselling and Psychotherapy Practice
5. Counselling and Psychotherapy integration

ADMISSION REQUIREMENTS

Applicants must

1. Be over 25 years of age at the date of registration;
2. Have successfully completed the Higher Certificate in Arts in Counselling Skills or its equivalent through alternative prior learning;
3. Be assessed through interview or progression assessment for internal students;
4. Submit two written references (for applicants who have not already been on a prior stage of the course). See application form for details.

National Vetting Bureau: CIT uses the National Vetting Bureau (NVB) to help assess the suitability of all applicants on this programme. It is important to note that participation in or completion of this programme may be affected by subsequent disclosure/discovery. Visit www.cit.ie/gardavetting

APPLICATION

A special application form is required for this course. It can be downloaded from the Institute's website www.cit.ie/course/HCOUN8 and should be returned to Úna Coakley, Department of Applied Social Studies, Cork Institute of Technology, Bishopstown, Cork. Please mark envelope BA Degree application. Closing date for completed application forms is Friday, 4th May 2018.

AWARD

On successful completion of the full programme, students will be awarded a Bachelor of Arts (Honours) in Counselling and Psychotherapy. On achieving the honours degree, graduates will be equipped to carry out Counselling and Psychotherapy in a structured setting with the support of supervision. The BA honours degree is a fully validated professional Counselling and Psychotherapy training programme which satisfies the accreditation requirements of the Irish Association for Counselling and Psychotherapy.

MASTER OF ARTS IN INTEGRATIVE PSYCHOTHERAPY

(LEVEL 9)
COURSE CODE **CR_HINTP_9**

COURSE FEE

€3,500.
Fee for dissertation and Mental Health placement year: €1,200

ENQUIRIES

Úna Coakley
M: 087 669 1584 E: una.coakley@cit.ie

COURSE & MODULE INFORMATION, VISIT **WWW.CIT.IE/COURSE/CRHINTP9**

Students should note that Fees quoted relate to the academic year 2018 and are subject to change on an annual basis.

Closing date for applicants is 3rd May 2019.

AIM

The programme aims to equip practitioners with advanced knowledge and increased clinical capability.

Client work and supervision: Students will be required to carry out 100 hours of Counselling work with clients during each year of the course. They will be required to obtain supervision for this work from their own Supervisor. Additionally, during Year 1 they will participate in monthly group supervision arranged by the course coordinator. Payment for individual and group supervision will be made directly by students and is not included in the course fee.

Personal Therapy: Students will be in weekly personal therapy throughout the course. The cost of this is separate to the course and is arranged directly between the student and the therapist.

DURATION & DELIVERY

The programme has 90 credits and will be offered as follows:

Year 1 (60 Credits) is a taught year where students will attend at College and supervision, thus completing the taught modules of the course. The regular sessions will be held on a combination of weekday evenings (generally 6.30pm to 9.30pm) and on Saturdays and Sundays.

Year 2 (30 Credits) will involve a programme of directed/ supervised learning where students will research and write the Reflective Practitioning dissertation. During this year they will also carry out their Mental Health Placement.

ADMISSION REQUIREMENTS

Applicants must

- Have successfully completed the Bachelor of Art (Honours) in Counselling or Psychotherapy (minimum H2.2) or an equivalent* professional training in Counselling and Psychotherapy that satisfies the training requirements for professional accreditation.
- Have competed two years post-qualifying supervised clinical practice with a minimum of 150 hours of clinical practice which is verified by an accredited supervisor.
- Be assessed through interview.
- Submit two written references (for applicants who have not already been on a prior stage of the course).

*Where an applicant has not completed the Bachelor of Arts (Honours) in Counselling or Psychotherapy, equivalence is assessed through the formal Recognition of Prior Learning (RPL) process used in CIT (www.cit.ie/rpl). This involves applicants preparing a portfolio in which they would demonstrate how they have achieved the learning outcome of the modules in the BA (Honours) in Counselling and Psychotherapy as well as the two years post-qualifying supervised clinical practice.

National Vetting Bureau: CIT uses the National Vetting Bureau (NVB) to help assess the suitability of all applicants on this programme. It is important to note that participation in or completion of this programme may be affected by subsequent disclosure/discovery. Visit www.cit.ie/gardavetting

ACCREDITATION

The process of establishing training standards to prepare for the statutory registration of Psychotherapists in Ireland is continuing.

The present overall training programme at CIT combining the Bachelor of Arts (Honours) in Counselling and Psychotherapy, two years post-qualifying supervised clinical practice, and the MA in Integrative Psychotherapy, represents the best interpretation of the requirements as they currently prevail.

AWARD

Master of Arts in Integrative Psychotherapy (Level 9 on the National Framework of Qualifications).

MASTER OF ARTS IN PLAY THERAPY

(LEVEL 9)
COURSE CODE **CR_HPLTH_9**

COURSE FEE
€2,300 per year or €6,900 in total for three year MA

ENQUIRIES
Myriam Clancy
T: 021 4326155
E: myriam.clancy@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRHPLTH9**

Students should note that Fees quoted relate to the academic year 2018 and are subject to change on an annual basis.

The course commences on 6th October 2018. Closing date for applicants is 1st September 2018.

AIM
This programme is a postgraduate clinical training in Play Therapy. It aims to equip practitioners with the advanced knowledge and clinical capability that would match international standards of best practice within the Play Therapy profession. Key area is in personal therapy and personal development

On successful completion of the programme students may be eligible for membership of the Irish representative organisations for Play Therapists. These include the Irish Play Therapy Association, the Irish Association for Play Therapy and Psychotherapy, and Play Therapy Ireland.

DURATION & DELIVERY
The programme is offered on a part-time basis over three years.

Years 1 and 2 (60 credits) will include a clinical training in Play Therapy. Students will study modules which will be experiential and theoretical. They will undertake placements in both years and will require external supervision from approved supervisors.

On successful completion of the taught elements, students will be awarded a Postgraduate Diploma in Play Therapy, unless they proceed to Year 3.

Year 3 (30 credits) The MA in Play Therapy is awarded to candidates who successfully complete a module in research skills and a dissertation.

CONTENT
www.cit.ie/course/CRHPLTH9
The website gives information on modules, recommended textbooks, average weekly workload, assessments and exams.

ADMISSION REQUIREMENTS
Applicants must hold a Level 8 Honours degree (H2.2) or higher, in one of the following areas: Counselling/ Psychotherapy, Early Years Education, Occupational Therapy, Primary Education, Psychiatry, Psychology, Psychiatric Nursing, Social Care, Social Work, Special Needs Education or a cognate discipline.

Applicants must be 23 years old at the time of entry to the programme and have at least two years post qualifying experience of working with children. Applicants will be required to attend an interview.

National Vetting Bureau: CIT uses the National Vetting Bureau (NVB) to help assess the suitability of all applicants on this programme. It is important to note that participation in or completion of this programme may be affected by subsequent disclosure/discovery. Visit www.cit.ie/gardavetting

AWARD
Master of Arts in Play Therapy (Level 9 on the National Framework of Qualifications).

CERTIFICATE IN ADVANCED CLINICAL PRACTICE WITH CHILDREN AND FAMILIES

SPECIAL PURPOSE AWARD (LEVEL 9)
COURSE CODE **CR_HCPCF_9**

COURSE FEE
€1,980

ENQUIRIES
Mary Cooney
T: 021 433 5320
E: mary.cooney@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRHCPCF9**

DURATION AND DELIVERY
The programme, will be delivered on a part-time basis over one semester. Weekly lectures will take place on Monday evenings approximately 4.30pm – 9.30pm and on Friday afternoon for three hours. Some weekend lectures are anticipated. Successful applicants will have notice of dates and confirmed location prior to starting. Student class contact time will be 8.5 hours per week. Please note the timetable is subject to minor changes and successful applicants will be provided with all course documentation on acceptance of an offer of a place on the programme.

The duration of the programme is one Semester (15 weeks) ending in January.

AIM
This special purpose 30 credits award develops advanced professional competency in working with Children and Families in complex clinical settings.

The course is being offered by CIT in partnership with the Bessborough Centre, Cork and Tavistock and Portman NHS Foundation Trust. It will be delivered by Institute staff alongside practitioners from the Bessborough Centre. The programme is designed to enable practitioners to stay in close touch with practice, whilst also developing the leadership and educational competencies of practitioner staff. It also facilitates practitioners from a wide range of specialisms to learn together and learn from each other's service specific experience in pursuit of integrated cross-service and cross sector practice and management competence.

ADMISSION REQUIREMENTS
This specialist programme will be of interest to practitioners with 2 years prior experience working with children and/or families in a professional capacity. Practitioners should be at least one-year post qualified and actively engaged in work with children and families at the time of application and for the duration of the programme. An honours degree (Level 8) in Social Care, Social Work, Youth and Community Work, Early Years Education, Occupational Therapy or similar cognate fields of study is required to apply.

National Vetting Bureau (NVB): CIT uses the NVB to help assess the suitability of all applicants on this programme. It is important to note that participation in or completion of this programme may be affected by subsequent disclosure/discovery. Evidence of supporting documentation will be required on offer of a place on the programme.
Supervision: attendance at work based supervision is highly desirable.

APPLICATION PROCESS
Applications will be accepted by submitting the relevant application form to the Department of Applied Social Studies, CIT. Selection will be based on application form, references and interview.

CONTENT
PSYC9016 Working in Complex Contexts
PSYC9017 Psychoanalytic/Systemic Theory
PSYC9018 Work Discussion Group
PSYC9019 Attachment and Affective Neuroscience

AWARD
The Certificate in Advanced Clinical Practice with Children and Families will be awarded on completion of this programme. The Certificate in Advanced Clinical Practice with Children and Families within the Department of Applied Social Studies is a 30-credit special purpose award at Level 9.

VALIDATING BODY
Cork Institute of Technology

FURTHER STUDIES AT CIT
The Department of Applied Social Studies, a partner in devising this programme, plans to afford students further opportunities to progress to Diploma and Masters Level in the near future.

SCHOOL OF HUMANITIES

DEPARTMENT OF TOURISM & HOSPITALITY

HEAD OF DEPARTMENT

Dr Noel Murray

DEPARTMENT SECRETARY

Geraldine McCarthy
Location: Room T200
T: 021 433 5820
E: geraldine.mccarthy@cit.ie

COURSES

- Bachelor of Arts in Culinary Arts (Level 7)
- Advanced Certificate in Professional Cookery – Total Immersion Programme (Level 6)
- Certificate in Culinary Skills (Level 6)
- Bakery, Breads & Pastry (Level 6)
- Pastry, Tarts & Gateaux (Level 6)
- Management Principles for Services (Level 6)
- Professional Bar Operations (Level 6)
- The Art of Mixology & Cocktail Making (Level 6)
- Food, Photography & Styling (Level 7)

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation, and timetable arrangements will be sent to all applicants via email update.

WWW.CIT.IE/TH

green hospitality award

BACHELOR OF ARTS IN CULINARY ARTS

(LEVEL 7)
COURSE CODE **CR_OCULP_7_Y3**

COURSE FEE

Due to funding changes, please contact Geraldine McCarthy for details regarding course fees.

ENQUIRIES

Geraldine McCarthy
T: 021 433 5820 E: geraldine.mccarthy@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CROCULP7Y3**

ADMISSION REQUIREMENTS

- A recognised Culinary Arts or Professional Cookery qualification or equivalent
- Minimum of 1 year's post qualification industry experience in a professional kitchen environment
- Currently working as a Chef in a recognised catering establishment
- Selection for this course will also be based on an interview to be held in Cork Institute of Technology
- Mature students will be considered on an individual basis and in accordance with CIT regulations for part-time enrolment
- Participants with significant industry experience but without previous formal qualifications may be considered through the Recognition of Prior Learning (RPL) process, visit www.cit.ie/rpl

AIM

The aim of this course is to develop advanced Culinary Art skills of a specialised nature. The emphasis is on extending culinary knowledge and ability in a flexible and imaginative manner towards excellence, innovation and artistic merit.

DURATION & DELIVERY

- Part-time basis one day per week
- Students should expect to take 2 to 3 years to complete the Bachelor of Arts in Culinary Arts
- Students are required to have completed Part 1 of any module prior to commencing Part 2

AWARD

Bachelor of Arts in Culinary Arts (Level 7 on the National Framework of Qualifications).

Note: Modules are offered subject to demand and mode of delivery is in consultation with the student group.
Modules may be taken as stand-alone modules, subject to availability.
Modifications to the configuration of the course may take place in accordance with changing requirements.

CONTENT

12 Modules

Advanced Pastry 1	Advanced Pastry 2	Advanced Culinary Skills 1
Advanced Culinary Skills 2	Culinary Leadership & Training	Cost Management
Research Methods & Styles	Food Product Development Techniques	Synoptic Study
Service Business Environment	Gastronomy in the Modern World	Food Product Development Concepts

ADVANCED CERTIFICATE IN PROFESSIONAL COOKERY

TOTAL IMMERSION PROGRAMME

(LEVEL 6)
COURSE CODE **CR_FALPR_6_Y1**

COURSE FEE

Due to funding changes, please contact Geraldine McCarthy for details regarding course fees.

ENQUIRIES

Geraldine McCarthy
T: 021433 5820
E: geraldine.mccarthy@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRFALPR6Y1**

Note: Places are limited to 16 participants per year

ADMISSION REQUIREMENTS

Selection for this course is based on an interview to be held in Cork Institute of Technology. Online application for this programme opens annually in February for commencement in September.

AIM

This course is aimed at mature participants, with a passion for cookery, who wish to pursue a career as a professional chef in the hospitality sector. The course covers the key skills required in professional cookery and is delivered in 3 stages of learning:

1. Learning the Fundamentals
2. Exploring the Techniques
3. Refining Culinary Service

The course provides participants with the benefits of personnel attention, instant feedback, hands-on experience and reinforcement, so that each carefully planned class provides participants with the tools for working in the catering sector. Participants will truly immerse themselves in the world of professional cookery.

The course offers high quality, hands-on education where both theory and practical elements are delivered in state-of-the-art professional culinary facilities. As part of the course, participants work in industry in a professional kitchen and enhance their practical cookery skills.

BENEFITS OF THIS COURSE

- Gain an internationally recognised qualification in 12 months
- Avail of valuable college education and intensive industry experience in a structured manner
- As a participant, you will develop a broad base of knowledge, a confidence in your skills and the fluency to move successfully into a career that is right for you

DURATION & DELIVERY

The course is 12 months in duration structured as follows:
9 months of 3 days in college and 2 days working in industry with an employer of choice, followed by 3 months intensive structured industry training with an employer of choice.

AWARD

Advanced Certificate in Professional Cookery (Level 6 on the National Framework of Qualifications).

CONTENT

12 Modules

Culinary Skills & Standards	European, Mediterranean, & Global Cuisine	Menu Planning & Cost Control
Pastry	Larder	Restaurant Service & Communication
Classical Cuisine	Food Safety	Nutrition
Gastronomy	Culinary Science	Technology

CERTIFICATE IN CULINARY SKILLS

(LEVEL 6)

COURSE FEE

See page 8 for Springboard+ eligibility criteria

SPRINGBOARD+
FUNDING OPTION AVAILABLE
SEE PAGE 8 FOR ELIGIBILITY

ENQUIRIES

Geraldine McCarthy
T: 021433 5820
E: geraldine.mccarthy@cit.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.SPRINGBOARDCOURSES.IE/DETAILS/6241**

ADMISSION REQUIREMENTS

Leaving Certificate or FETAC Level 5. Mature applicants by Interview

This course is aimed at participants with a passion for cookery, who wish to pursue a career as a professional chef. The aim of this programme is to provide learners with the knowledge, skills and competence necessary for a career in a professional cookery environment. The course provides participants with the benefits of personal attention, instant feedback, hands-on experience and reinforcement, so that each carefully planned class provides participants with the tools for working in the catering sector.

BAKERY, BREADS & PASTRY

(LEVEL 6)
COURSE CODE **CR_FTCXXB6**

COURSE FEE

€550 (includes exam fee).
In addition, a €60 fee for the necessary work uniform is required.

ENQUIRIES

Geraldine McCarthy
T: 021 433 5820
E: hospitality@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRFTCXXB6**

MODULE CODE

HOSP6084

AIM

This course provides skills and knowledge in the areas associated with modern pastries and breads. It is suitable as a foundation course or to build on existing skills. This is a hands-on course where the student will gain practical experience in class.

CONTENT

- Yeast Breads
- Bagels
- Soda Bread Extensions
- Bun Doughs
- Croissants
- Danish Pastries
- Puff Pastry
- Brioche

DURATION & DELIVERY

This course commences in September and will operate one evening per week per semester, consisting of a 4 hour practical class each evening from 6pm to 10pm.

APPLY

Apply online or by application form (available by email hospitality@cit.ie). Online application for this programme opens annually in February for commencement in September. Closing date for applications is in August. Places are limited on this course and interviews may be held for participation.

AWARD

CIT: Single Module Certification (5 ECTS credits at Level 6 on the National Framework of Qualifications).

Note: Modifications to the configuration of the course may take place in accordance with changing requirements.

PASTRY, TARTS AND GATEAUX

(LEVEL 6)
COURSE CODE **CR_FTCXX_E6**

COURSE FEE

€550 (includes exam fee).
In addition, a €60 fee for the necessary work uniform is required.

ENQUIRIES

Geraldine McCarthy
T: 021 433 5820
E: hospitality@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRFTCXXE6**

MODULE CODE

HOSP6085

AIM

This course provides skills and knowledge in the areas of modern pastries. This is a hands-on course where the student will gain practical experience in class.

CONTENT

Modern Gateaux and small pastries made using the following

- Macaroons
- Choux Pastry
- Sweet Pastry
- Puff Pastry
- Chocolate Techniques
- Fillings – glacage, mousse, frangipane, caramel, pastry cream, praline, etc.

Note: Modifications to the configuration of the course may take place in accordance with changing requirements.

DURATION & DELIVERY

The course commences in January and will operate one evening per week each Thursday over the semester, consisting of a 4 hour practical class each evening from 6pm to 10pm.

APPLY

Apply online or by application form (available by email hospitality@cit.ie). Online application opens in September and closes in December. Places are limited on this course and interviews may be held for places.

AWARD

CIT: Single Module Certification (5 ECTS credits at Level 6 on the National Framework of Qualifications).

MANAGEMENT PRINCIPLES FOR SERVICES

(LEVEL 6)

COURSE CODE **CR_FTCXX_6**

COURSE FEE

€450

ENQUIRIES

Geraldine McCarthy
T: 021 433 5820
E: geraldine.mccarthy@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRFTCXX6**

MODULE CODE

HOSP6013

Many organisations are in a position where their supervisors have excellent technical skills, but they often lack management skills which are essential to be an effective supervisor. There is increasing evidence that people management is positively related to superior organisational performance.

ADMISSION REQUIREMENTS

This course is suitable to learners who have previously undertaken courses in culinary, tourism or hospitality operations. Applicants with sufficient industry experience may be considered.

AIM

This course is designed specifically with the needs of the hospitality and tourism sector in mind. It is ideally suited to existing supervisors who have not previously had the opportunity to formally develop their supervisory and management skills. Equally, the course will meet the needs of persons who have ambitions to become supervisors.

CONTENT

- Management Roles, Skills and Functions
- Business Ethics and Corporate Responsibility
- Law and Technology as drivers of change
- Planning and Decision Making
- Organisation Structure and Design
- Motivation and Leadership – Theory and Practice
- Human Resources Management
- Marketing and Customer Care
- Production Planning, Styles and Control

DURATION & DELIVERY

This course commences in September and will operate one evening per week over the semester.

APPLY

Apply online or by application form (available by email hospitality@cit.ie). Places are limited on this course.

AWARD

CIT: Single Module Certification (5 ECTS credits at Level 6 on the National Framework of Qualifications).

Note: Modifications to the configuration of the course may take place in accordance with changing requirements.

PROFESSIONAL BAR OPERATIONS

(LEVEL 6)
COURSE CODE **FTCXXC6_Y0**

COURSE FEE
€400

ENQUIRIES
Geraldine McCarthy
T: 021 433 5820
E: geraldine.mccarthy@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CROBARR6**

MODULE CODE
HOSP6012

AIM
This course aims to give participants an introduction to the knowledge, skills and aptitude necessary to become competent bartenders.

This is a hands-on course where the student will gain practical experience in class

CONTENT
- Responsible Service of Alcohol
- Attributes of the Professional Bartender
- Customer Care
- Basic Bar Legislation
- Service of Beverages: both alcoholic and non-alcoholic
- Product Knowledge
- Cellar and Cold Room Equipment
- Cocktails and Wines and Wine Service
- Use of Specialised Equipment
- Hygiene and Safety Procedures
- Beer: Types, Service and Sales

DURATION & DELIVERY
The course commences in September and is operated on one evening per week over the semester and consists of a 3 hour class each Tuesday evening from 6.30pm to 9.30pm.

APPLY
Apply online or by application form (available by email hospitality@cit.ie). Places are limited on this course.

AWARD
CIT: Single Module Certification (5 ECTS credits at Level 6 on the National Framework of Qualifications).

Note: Modifications to the configuration of the course may take place in accordance with changing requirements.

THE ART OF MIXOLOGY & COCKTAIL MAKING

(LEVEL 6)
COURSE CODE **FTCXXD6_Y0**

COURSE FEE
€450

ENQUIRIES
Geraldine McCarthy
T: 021 433 5820
E: geraldine.mccarthy@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRFAMCM6**

MODULE CODE
HOSP6044

AIM
An introduction to the world of cocktails, establishing a practical base in the methods of cocktail preparation and service. This is a hands-on course where the student will gain practical experience in class.

CONTENT
- Product knowledge
- History of Cocktails
- The structure of the Cocktail
- Methods of Cocktail making
- Use of equipment
- Production of Traditional and Contemporary Cocktails
- Use of garnishes
- Developing Cocktail and mixed drink menus
- Introduction to Molecular Mixology

DURATION & DELIVERY
The course commences in February and is operated on one evening per week over the semester and consists of a 3 hour class each Tuesday evening from 6.30pm to 9.30pm.

APPLY
Apply online or by application form (available by email hospitality@cit.ie). Places are limited on this course.

AWARD
CIT: Single Module Certification (5 ECTS credits at Level 6 on the National Framework of Qualifications).

Note: Modifications to the configuration of the course may take place in accordance with changing requirements.

FOOD, PHOTOGRAPHY & STYLING

(LEVEL 7)
COURSE CODE **CR_FTCXX_7**

COURSE FEE
€450

ENQUIRIES
Geraldine McCarthy
T: 021 433 5820
E: geraldine.mccarthy@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRFTCXX7**

MODULE CODE
HOSP7007

AIM
An introduction into the field of food photography and styling to enhance culinary artistic skills.

This course is suitable for those with a knowledge of food, and basic camera skills. Students are required to bring their own digital camera to class and will need access to a camera tripod.

Students will have access to photoshop, and a photographic studio with a studio lighting session during their studies. Students will be expected to develop their projects outside of class-time for analysis and discussion within contact hours. Final assessment is by way of a portfolio of images with accompanying evidence of learning.

CONTENT
- Basic Photographic Techniques of the Trade
- Food Styling and Design Concepts
- Choosing and Treating Ingredients
- Required Tools of the Trade
- Product Presentation
- Advertising, Marketing and the Promotion of Food within a Media Context
- Public Relations and writing styles for PR

DURATION & DELIVERY
This course operates one evening per week over a semester and consists of 3 hour classes.

APPLY
Apply online or by application form (available by email hospitality@cit.ie). Places are limited on this course.

Delivery of this course is subject to sufficient number of applicants.

AWARD
CIT: Single Module Certification (5 ECTS credits at Level 7 on the National Framework of Qualifications).

Note: Modifications to the configuration of the course may take place in accordance with changing requirements.

SCHOOL OF BUILDING & CIVIL ENGINEERING

HEAD OF SCHOOL

DR JOSEPH HARRINGTON

The School consists of the following Departments:

- Architecture
- Civil, Structural & Environmental Engineering
- Construction

Information evening for continuing education courses for the School of Building & Civil Engineering will take place at the CIT Bishopstown Campus on Wednesday 5th September 2018, 6.00pm to 8.00pm. Staff will be in attendance to offer career guidance and assistance.

WWW.CIT.IE

SCHOOL OF BUILDING & CIVIL ENGINEERING

DEPARTMENT OF ARCHITECTURE

HEAD OF DEPARTMENT

Katherine Keane

DEPARTMENT SECRETARY

Carmel Collins
Location: Room A223aL
T: 021 433 5950
E: carmel.collins@cit.ie

COURSES

- Master of Science in Interior Architecture (Level 9)
- Master of Science in Architectural Technical Design (Level 9)

HTTP://ARCHITECTURE.CIT.IE

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation, and timetable arrangements will be sent to all applicants via email update.

All part-time courses at CIT will run subject to sufficient student numbers. Where a course cannot proceed, applicants will be contacted and advised on alternative study options.

MASTER OF SCIENCE IN INTERIOR ARCHITECTURE

(LEVEL 9)
COURSE CODE **CR_DINAR_9**

COURSE FEE
€5,000

ENQUIRIES
Katherine Keane
T: 021 433 5970 E: katherine.keane@cit.ie
Marc Ó Riain
T: 021 433 5970 E: marc.oriain@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRDINAR9**

AIM
The intention of this programme is to develop advanced design, aesthetic, analytical, technical, assessment, appraisal and research skills in Interior Architecture. The structure of the programme facilitates the development of a self-directed specialist design focus with expertise in the discipline developed through studio explorations and research investigations. A minor focus in interdisciplinary themes can be integrated through the availability of elective modules.

The full-time programme is composed of 90 credits completed over 12 consecutive months. The programme includes theoretical and practical content aimed to predict future best-practice in environmental responsibility.

Graduates of this programme will be well equipped to meet the challenges of contemporary sustainable retrofit and interior architecture practice and provide leadership through innovative expertise in design with advanced conceptual understanding, detailed factual knowledge, specialist skills and an overall holistic approach.

The Department is currently completing the process for recognition by the European Council of Interior Architects.

ADMISSION REQUIREMENTS
Option 1: BSc (Honours) in Interior Architecture 50% average pass
Option 2: BSc (Honours) in Architecture, BSc (Honours) in Architectural Technology, 50% average pass

Please note: portfolio review and interview, additional credits beyond the 90 credit programme may be required for option 2.

PART-TIME DELIVERY
Part-time students may take modules on a phased basis and complete the programme over a number of years; 45 credits per year approximately over 2 years or 30 credits per year approximately over 3 years. All module delivery is scheduled **between 9am – 6pm Monday to Friday.**

CONTENT
Stage 1/Semester 1
Research Skills and Practice
Interior Arch Strategy Studio (15 ECTS)
Elective (choose 2)
Adaptation and Reuse 1
Contract Admin/Dispute Resolve
Const. Project Management
Commercial BER
Strategic Management 1
Multimedia Production
Free Choice Module

Stage 1/Semester 2
Research Project Development
Interior Arch Development Studio (20 ECTS)
Elective (choose 1)
Adaptation and Reuse 2
New Media Production
Eng. Project Management
Global Project Management
Intl Strategies & Organisation
Managing Innovation
Free Choice Module

Stage 1/ Semester 3
Interior Architecture Documentation and Dissemination Studio (10 ECTS)
Research Documentation and Dissemination (20 ECTS)

AWARD
Master of Science in Interior Architecture (Level 9 on the National Framework of Qualifications).

MASTER OF SCIENCE IN ARCHITECTURAL TECHNICAL DESIGN

(LEVEL 9)

COURSE CODE **CR_CARCT_9**

COURSE FEE

€5,000

ENQUIRIES

Katherine Keane
T: 021 433 5970 E: katherine.keane@cit.ie
Deirdre Ryan
T: 021 433 5970 E: deirdre.ryan@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRCARCT9**

AIM

The full-time programme is composed of 90 credits completed over 12 consecutive months. The intention of this programme is to develop advanced technical, analytical, assessment, appraisal and research skills in architectural technical design. The structure of the programme facilitates the development of a self-directed technical specialist focus with expertise in the specific areas of sustainable, performance-based, energy-efficient technical design developed through studio exploration and research investigations supported by elective modules.

The programme includes theoretical and practical content aimed to predict future best-practice in environmental responsibility.

A minor focus in interdisciplinary themes can be integrated through elective modules.

Graduates of this programme will be well equipped to meet the challenges of contemporary sustainable, performance-based, energy-efficient architectural technology practice and provide leadership through innovative expertise in technical design with advanced understanding, detailed factual knowledge and specialist skills.

ADMISSION REQUIREMENTS

Option 1: BSc (Honours) in Architectural Technology 50% average pass
Option 2: BSc (Honours) in Architecture, BSc (Honours) in Interior Architecture, 50% average pass

Please note: portfolio review and interview, additional credits beyond the 90 credit programme may be required for option 2.

PART-TIME DELIVERY

Part-time students may take modules on a phased basis and complete the programme over a number of years;
45 credits per year approximately over 2 years or 30 credits per year approximately over 3 years. All module delivery is scheduled **between 9am – 6pm Monday to Friday.**

CONTENT

Stage 1/Semester 1
Research Skills and Practice
Technical Design Strategy (15 credits)
Elective (choose 2)
M&E Cost Planning
Building Services Evaluation
Energy Systems Modelling
Building Thermal Dynamic Analysis
Adaptation and Reuse 1
Contract Admin/Dispute Resolve
Const. Project Management
Commercial BER
Strategic Management 1
Multimedia Production
Free Choice Module

Stage 1/Semester 2
Research Project Development
Technical Design Development (20 ECTS)
Elective (choose 1)
M&E Measurement
Building Energy Calculations
Adaptation and Reuse 2
New Media Production
Eng. Project Management
Global Project Management
Intl Strategies & Org
Managing Innovation
Free Choice Module

Stage 1/Semester 3
Research Documentation & Dissemination (20 ECTS)
Technical Design Dissemination (10 ECTS)

AWARD

Master of Science in Architectural Technical Design (Level 9 on the National Framework of Qualifications).

SCHOOL OF BUILDING & CIVIL ENGINEERING

DEPARTMENT OF CIVIL, STRUCTURAL & ENVIRONMENTAL ENGINEERING

HEAD OF DEPARTMENT

Des Walsh

DEPARTMENT SECRETARY

Carmel Collins
Location: Room A223aL
T: 021 433 5950
E: carmel.collins@cit.ie

COURSES

- Higher Certificate in Engineering in Civil Engineering (Level 6)
- Bachelor of Engineering in Civil Engineering (Level 7)
- Bachelor of Engineering in Environmental Engineering (Level 7)
- Certificate in Building Information Modelling Technologies (Level 7)
- Certificate in Environmental and Energy Engineering (Level 7)
- Certificate in Environmental and Energy Engineering (Level 8)
- Postgraduate Diploma in Structural Engineering (Level 9)
- Postgraduate Diploma in Civil Engineering (Environment & Energy) (Level 9)
- Master of Engineering in Structural Engineering (Level 9)
- Master of Engineering in Civil Engineering (Environment and Energy) (Level 9)

SHORT CPD COURSES

- Building Regulatory Engineering
- Fire Safety Certification
- Practical Land Surveying
- Digital Land Surveying and GPS

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation and timetable arrangements will be sent to all applicants via email update.

For further information on entry standards to the Civil Engineering profession please refer to the Engineers Ireland website at www.engineersireland.ie

WWW.CIT.IE/CSE

HIGHER CERTIFICATE IN ENGINEERING IN CIVIL ENGINEERING

(LEVEL 6)
COURSE CODE **CR_CCIVE_6**

COURSE FEE
€300 per 5 credit module (inc. exam fee)

ENQUIRIES
Des Walsh
E: des.walsh@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRCCIVE6**

Part-time students who are in a position to attend by day may take modules on the programme at any time.

DELIVERY
Part-time by day attendance – shared delivery with full-time students, timetabled within the usual 9am – 6pm working day.

ADMISSION REQUIREMENTS
Leaving Certificate Grade O6/H7 (pre. 2017, D3 Ordinary Level) in five subjects to include Mathematics and either English or Irish. Special category students (e.g. mature students) will be considered on an individual basis.

CONTENT
Stage 1
Module topic areas include Mathematics, Applied Mechanics, Engineering Science, Linear Surveying & Levelling, CAD, Construction, Health & Safety.

Stage 2
Module topic areas include Mathematics, Civil Engineering Materials, Structural Design, Structural Engineering, Land Surveying, Hydraulics and Hydrology, Planning & Development, Civil & Structural Engineering Construction, and Professional Studies.

STRUCTURE
The course is offered under the ACCS scheme. The accumulation of sufficient credits for the award of the Higher Certificate is expected to involve an average of three years part-time study and the course modules are offered on that basis as follows:

CCIVE_6 Year 1
Modules from Stage 1:
Topics typically include Mathematics, Engineering Science, Engineering Communication, Land Surveying, and Construction.

CCIVE_6 Year 2
Modules from Stage 1 and modules from Stage 2:
Topics typically include Applied Mechanics, Health & Safety (Stage 1), Mathematics, Civil Engineering Materials, Land Surveying Control, Structural Design, Civil & Structural Engineering Construction, Professional Studies (Stage 2).

CCIVE_6 Year 3
Modules from Stage 2:
Topics typically include Practical Land Surveying, Structural Engineering, Structural Design, and Hydraulics and Hydrology.

AWARD
Higher Certificate in Engineering in Civil Engineering (Level 6 on the National Framework of Qualifications).

FURTHER STUDIES AT CIT
Higher Certificate graduates are eligible to apply for the BEng in Civil Engineering (Level 7 on the National Framework of Qualifications).

BACHELOR OF ENGINEERING IN CIVIL ENGINEERING

(LEVEL 7)
COURSE CODE **CR_CCIVE_7**

APPLICATION
Apply online at www.cit.ie/course/CRCCIVE_7

COURSE FEE
€300 per 5 credit module (inc. exam fee)

ENQUIRIES
Des Walsh E: des.walsh@cit.ie

BACHELOR OF ENGINEERING IN ENVIRONMENTAL ENGINEERING

(LEVEL 7)
COURSE CODE **CR_CENVI_7**

APPLICATION
Apply online at www.cit.ie/course/CRCENVI_7

COURSE FEE
€300 per 5 credit module (inc. exam fee)

ENQUIRIES
Des Walsh E: des.walsh@cit.ie

Part-time students who are in a position to attend by day may take modules on the programme at any time.

DELIVERY
Part-time by day attendance – shared delivery with full-time students, timetabled within the usual 9am – 6pm working day.

The below websites have information on recommended textbooks, average weekly workload, assessments, and exams.

1) Civil Engineering: www.cit.ie/course/CRCCIVE7
2) Environmental Engineering: www.cit.ie/course/CRCENVI7

ADMISSION REQUIREMENTS
Higher Certificate in Engineering in Civil Engineering (NFQ Level 6). Holders of other relevant qualifications will be considered for admission on an individual basis.

STRUCTURE
This course is offered under the ACCS scheme. ACCS is an acronym for "Accumulation of Credits and Certification of Modules". This scheme allows students instead of studying an entire course – to study one or more modules of that course. Modules passed, are certified individually, and can be accumulated, leading to an award of a Degree. The accumulation of sufficient credits for the award of the BEng is expected to involve a minimum of two years part-time study and the course modules are offered on that basis.

FURTHER STUDIES
BEng (Ord.) graduates may be eligible to apply for Honours Civil and Structural Engineering Degree courses (NFQ Level 8). The Engineers Ireland Graduate Diploma is also a possible route of progression to full membership of Engineers Ireland for those holding the appropriate minimum entry requirements.

AWARD
1) Bachelor of Engineering in Civil Engineering (Level 7 on the National Framework of Qualifications) or
2) Bachelor of Engineering in Environmental Engineering (Level 7 on the National Framework of Qualifications).

CERTIFICATE IN BUILDING INFORMATION MODELLING TECHNOLOGIES

(LEVEL 7)
COURSE CODE **CR_CBIMG_7**

COURSE FEE

€1,500 (Multiple applications from the same company will be eligible for a 10% discount for 2 attendees, 15% for 3 attendees or more)

ENQUIRIES

Ted McKenna
T: 021 433 5950
E: ted.mckenna@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRCBIMG7**

DURATION & DELIVERY

September – December
Provisional timetable: Tuesdays 5.30pm – 9.30pm and Fridays 2.30pm – 8.30pm

ADMISSION REQUIREMENTS

Applicants should have a minimum of a Level 6 architectural technology or engineering or construction related qualification. Equivalent recognition may be given through the Recognition of Prior Learning (RPL) process on an individual case-by-case basis to candidates who have not achieved this academic standard but who can demonstrate significant relevant professional experience in the Built Environment discipline, visit www.cit.ie/rpl.

AIM

The undergraduate/postgraduate Certificate in Building Information Modelling Technologies (BIM) is a three module 15 credit part-time programme. This programme provides an opportunity for architectural, engineering and construction degree graduates, or qualifying students, to acquire effective skills and knowledge in the application of Building Information Modelling (BIM) methodologies and technologies within a multi-disciplinary and collaborative approach to building design and construction.

Participants will gain experience in using industry standard technology such as Autodesk Revit, Navisworks, Recap 360, BIM 360 Glue and BIM 360 Field or other equivalent software. The option of an insight into GIS, which is an effective BIM tool, is also provided by this programme if selected as the preferred elective. The programme is delivered by academic staff involved in BIM research combined with industry professionals charged with the delivery of BIM projects in Ireland and abroad.

Overall, this award will enhance employment prospects where there is an ever increasing identified skills need both nationally and internationally. The programme will build on participants existing experience of the Architecture, Engineering and Construction (AEC) sector and introduce experience in working within a collaborative environment and enabled by the latest technological advances which support industry.

CONTENT

The programme comprises two mandatory modules and one elective module, all modules are taken over a single semester.

Mandatory Modules
INTR7018 Collaborative BIM 1
INTR7019 Collaborative BIM 2

Elective Modules (choose one, only INTR6021 was offered in 2017/18)
INTR6016 Introduction to Geographic Information Science
INTR6021 3D Built Environment Modelling

WHAT THE COURSE STUDENTS SAY:

"The certificate course on BIM at CIT is an excellent course. It is very intensive and covers every aspect of BIM, from design, software, process and standards. Anyone who is in the process of heading down the road of BIM would definitely benefit from doing this course. Having outside lecturers who are currently involved in delivering BIM projects was a huge bonus. An excellent course, well organised and extremely well delivered."
John O'Connell, **Architectural & Metal Systems (AMS) Ltd.**

AWARD

Special Purpose Award – Certificate in Building Information Modelling Technologies (Level 7 on the National Framework of Qualifications).

CERTIFICATE IN ENVIRONMENTAL AND ENERGY ENGINEERING

(LEVEL 7)

COURSE CODE **CR_EENEN_7**

COURSE FEE

Please email fees@cit.ie

ENQUIRIES

Denise Barnett
T: 021 432 6766 E: denise.barnett@cit.ie
Carmel Collins
T: 021 433 5950 E: carmel.collins@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREENEN7**

Environmental & Energy Engineering is the application of scientific and engineering principles to activities which protect, enhance and improve the environment. Energy engineering focuses on hydrology, water resource management, and water and wastewater treatment design. Energy Engineering focuses on wind, wave, tidal, biomass and energy sustainability issues. Energy Engineering and its inextricable relationship to the environment is an increasingly important aspect of global sustainability.

DURATION & DELIVERY

One academic year, requiring attendance on a number of days per week in each semester, usual working hours of 9am – 6pm. The learning experience involves a variety of modes, including classroom based lectures, individual and group project work and tutorials. The flexibility in relation to elective choices facilitates a learner centred approach, allowing the learner to direct the focus of his/her own programme of study.

ADMISSION REQUIREMENTS

A minimum of a Level 6 qualification in engineering or a Level 7 in construction/architecture/architectural technology related qualification. Equivalent recognition may be given through the Recognition of Prior Learning (RPL) process on an individual case-by-case basis to candidates who have not achieved this academic standard but who can demonstrate significant relevant professional experience in the discipline of Environmental & Energy Engineering, visit www.cit.ie/rpl.

AIM

The Certificate in Environmental & Energy Engineering programme aims to provide an opportunity for Level 6 engineering or Level 7 construction/architecture/architectural technology graduates to acquire skills and knowledge in the specific disciplines of environmental and energy engineering. The environmental stream concentrates primarily on the water industry; the energy stream includes modules on Wind Energy, Building Energy Rating and Energy and the Environment.

The programme aims to up-skill and re-skill construction industry personnel including those in the target cohort with Level 6 and Level 7 qualifications in the construction disciplines including architectural technology, architecture and construction.

This programme offers two complementary streams; the environmental stream, and the energy stream.

The **environmental stream** covers a wide range of relevant topics including water supply and treatment, wastewater treatment, hydrology and hydraulics, waste management, water quality, and environmental impact assessment.

The **energy stream** incorporates building energy, a range of renewable energies including wind energy, and environmental & energy policy.

FURTHER STUDIES

A mathematics module is included as an elective option providing learners with the opportunity to ultimately potentially progress to the Level 7 BEng in Civil Engineering programme or the Level 8 Certificate in Environmental & Energy Engineering. Learner choice is provided in each semester through the range of module elective options available.

AWARD

Special Purpose Award – Certificate in Environmental and Energy Engineering (Level 7 on the National Framework of Qualifications).

CERTIFICATE IN ENVIRONMENTAL AND ENERGY ENGINEERING

(LEVEL 8)

COURSE CODE **CR_EENEN_8**

COURSE FEE

Please email fees@cit.ie

ENQUIRIES

Niamh Power
T: 021 433 5959 E: niamh.power@cit.ie
Carmel Collins
T: 021 433 5950 E: carmel.collins@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREENEN8**

Environmental & Energy Engineering is the application of scientific and engineering principles to activities which protect, enhance and improve the environment. Energy engineering focuses on hydrology, water resource management, and water and wastewater treatment design. Energy Engineering focuses on wind, wave, tidal, biomass and energy sustainability issues. Energy Engineering and its inextricable relationship to the environment is an increasingly important aspect of global sustainability.

DURATION & DELIVERY

One academic year, requiring attendance on a number of days per week in each semester, usual working hours of 9am – 6pm. The learning experience involves a variety of modes, including classroom based lectures, individual and group project work and tutorials. The flexibility in relation to elective choices facilitates a learner centred approach, allowing the learner to direct the focus of his/her own programme of study.

ADMISSION REQUIREMENTS

Applicants should hold a minimum of a Level 7 or Level 8 engineering qualification, preferably in Civil Engineering or a cognate discipline. Equivalent recognition may be given through the Recognition of Prior learning (RPL) process on an individual case-by- case basis to candidates who have not achieved this academic standard but who can demonstrate significant relevant professional experience in the discipline of Environmental and Energy Engineering, visit www.cit.ie/rpl.

AIM

The Certificate in Environmental & Energy Engineering programme aims to provide an opportunity for engineering degree graduates to acquire advanced skills and knowledge in the specific disciplines of Environmental & Energy Engineering thus enhancing their employment prospects. The programme covers both the theoretical background and the practical considerations of Environmental & Energy Engineering practices. The content seeks to reflect current and future practice in a broad range of areas including water, wastewater, wind, biomass, and ocean energy. It aims to provide the graduate with high level design skills in the environmental and energy areas. The elective options afford the opportunity for the development of skills and competences in areas of the graduate's choosing. The programme is targeted at engineering graduates wishing to up-skill in the environmental and sustainable energy areas.

FURTHER STUDIES

Having successfully completed this programme the graduate may have the opportunity to progress to a Level 8 BEng (Hons) programme or a Level 9 MEng programme within the Faculty. Such opportunities will be dependent on previous qualifications, experience and programme specific entry requirements. Alternatively, suitable qualified graduates may proceed to a programme of research leading to a MEng or PhD award.

AWARD

Special Purpose Award – Certificate in Environmental and Energy Engineering (Level 8 on the National Framework of Qualifications).

POSTGRADUATE DIPLOMA IN STRUCTURAL ENGINEERING

(LEVEL 9)
COURSE CODE **CR_STRE_9_Y5**

COURSE FEE
€5,400

ENQUIRIES
John Justin Murphy
T: 021 432 6741
E: johnjustin.murphy@cit.ie

POSTGRADUATE DIPLOMA IN CIVIL ENGINEERING (ENVIRONMENT & ENERGY)

(LEVEL 9)
COURSE CODE **CR_CENVE_9**

COURSE FEE
€5,400

ENQUIRIES
Leonard O'Driscoll
T: 021 432 6563
E: leonard.odriscoll@cit.ie

The Department offers two taught Postgraduate Diploma in Engineering programmes specialising in the fields of
1) Structural or
2) Civil Engineering (Environment and Energy).

DURATION & DELIVERY
These programmes are delivered on a part-time basis, i.e. two academic years, requiring attendance on two evenings, and a Friday afternoon per week, in each semester.

The below websites have information on online application timetable arrangements for 2018/19 and 2019/20, recommended textbooks, average weekly workload, assessments, and exams.

1) Structural: www.cit.ie/course/CRCENEN9
2) Civil Engineering (Environment and Energy): www.cit.ie/course/CRCENEN9

ADMISSION REQUIREMENTS
Applicants should hold a minimum of a Second Class Honours Grade 2 in a professionally accredited Level 8 Honours Degree programme in Civil or Structural Engineering. Equivalent recognition may be given through the Recognition of Prior Learning (RPL) process on an individual case-by-case basis to candidates who have not achieved this academic standard but who can demonstrate significant relevant professional experience in the discipline of Structural Engineering or Civil/Environmental/Energy Engineering for the respective programmes, visit www.cit.ie/rpl.

AIM
The taught Postgraduate in Engineering programmes are designed to:
- deepen the postgraduate student's technical knowledge, skillsand competences in the field of specialisation
- broaden knowledge in other areas such as Sustainability, Management, and Business

Additionally, the MEng in Structural Engineering programme will provide preparation for the Institute of Structural Engineers Professional Practice Examinations by developing structural analysis and design skills.

COURSE STRUCTURE
The courses are offered to part-time students under the ACCS scheme. The accumulation of sufficient credits for the award of the Postgraduate Diploma requires the accumulation of 60 credits.

On successful completion of the relevant 60 credits a student may opt to transfer to the taught MEng in Structural Engineering/ MEng in Civil Engineering (Environment and Energy) programme – the successful completion of an additional 30 credit thesis module will qualify the student for the MEng award.

MASTER OF ENGINEERING IN STRUCTURAL ENGINEERING

(LEVEL 9)
COURSE CODE **CR_CSTRU_9**

COURSE FEE
€7,000
APPLICATION
Apply online at www.cit.ie/course/CRCSTRU9
ENQUIRIES
John Justin Murphy
T: 021 432 6741 E: johnjustin.murphy@cit.ie

MASTER OF ENGINEERING IN CIVIL ENGINEERING (ENVIRONMENT & ENERGY)

(LEVEL 9)
COURSE CODE **CR_CENEN_9**

COURSE FEE
€7,000
APPLICATION
Apply online at www.cit.ie/course/CRCENEN9
ENQUIRIES
Leonard O'Driscoll
T: 021 432 6563 E: leonard.odriscoll@cit.ie

The Department offers two taught MEng programmes specialising in the fields of
1) Structural or
2) Civil Engineering (Environment and Energy).

The programmes are fully accredited by Engineers Ireland as satisfying the new educational standard for the title Chartered Engineer.

DURATION & DELIVERY
These programmes are delivered on a part-time basis, i.e. two academic years, requiring attendance on two evenings, and a Friday afternoon per week, in each semester.

The below websites have information on timetable arrangements 2018/19 and 2019/20, recommended textbooks, average weekly workload, assessments, and exams.

1) Structural: www.cit.ie/course/CRCENEN9
2) Civil Engineering (Environment and Energy): www.cit.ie/course/CRCENEN9

ADMISSION REQUIREMENTS
Applicants should hold a minimum of a Second Class Honours Grade 2 in a professionally accredited Level 8 Honours Degree programme in Civil or Structural Engineering. Equivalent recognition may be given through the Recognition of Prior Learning (RPL) process on an individual case-by-case basis to candidates who have not achieved this academic standard but who can demonstrate significant relevant professional experience in the discipline of Structural Engineering or Civil/Environmental/Energy Engineering for the respective programmes, visit www.cit.ie/rpl.

AIM
The taught Master of Engineering programmes are designed to:
- deepen the postgraduate student's technical knowledge, skills and competences in the field of specialisation
- develop an ability to carry out in depth research in a chosen field of Engineering, to draw conclusions from the research and present research findings
- broaden knowledge in other areas such as Sustainability, Management, and Business

Additionally, the MEng in Structural Engineering programme will provide preparation for the Institute of Structural Engineers Professional Practice Examinations by developing structural analysis and design skills.

COURSE STRUCTURE
The courses are offered to part-time students under the ACCS scheme. The accumulation of sufficient credits for the award of the MEng requires the accumulation of 90 credits; 50 credits are associated with taught modules, 40 credits associated with the thesis work (2x5 credits preparatory modules and the 30 credit thesis). A student may opt to exit the course with a Postgraduate Diploma award should he/she accumulate 60 credits and not wish to complete the final 30 credit thesis module.

BUILDING REGULATORY ENGINEERING

(ONLINE DELIVERY AVAILABLE)
(LEVEL 8)
COURSE CODE **CR_CBREG_8**

COURSE FEE

€595
(includes course notes/exam and assessment fees)

ENQUIRIES

Andrew Macilwriath
T: 021 433 5950
E: andrew.macwriath@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRFAMCM6**

The course is based on the Module Descriptor CIVL8004 Building Regulatory Engineering.

This newly updated course, will cover the recently enacted Building Control Amendment Regulations 2014, together with its associated Code of Practice. This SI 9 has significantly changed the way buildings are inspected and certified, and will hopefully in turn bring more work to construction professionals. Part of the inspection procedure will include CE marking of materials in accordance with the Construction Products Regulations which came into effect July 2014. A third area that has been added to this short course is the Energy Performance of Buildings Regulations 2012. This course also addresses all key aspects of the building regulations, provides a brief introduction to the Eurocodes, and should be invaluable to both new users of the building regulation guidance documents, and those that may enjoy a refresher course. All those involved in the construction industry will find this short course useful, particularly those involved in design, detailing, construction overseeing & inspection, and certification of building projects.

DURATION & DELIVERY

Delivery Mode A – On-Campus Attendance:
Typically, the hours will be 6pm – 9pm Friday evenings and 9am – 4pm Saturdays for a total of four weekends, exact dates are published on the programme webpage. Information updates may be obtained by contacting the Department of Civil, Structural & Environmental Engineering; the Course Coordinator is Mr Andrew Macilwraith, contact details as above.

Delivery Mode B – Online Delivery: Subject to demand, the Department will also offer a web based distance learning delivery of this programme available for part-time students; the course can be completed in one semester (13 weeks). Attendance at CIT will be required for the final assessment.

ADMISSION REQUIREMENTS

Applicants should hold a minimum of a NFQ Level 7 qualification in Civil/Structural Engineering or Architecture or Architectural Technology or in a cognate discipline.

AWARD

Single Module Certification (5 ECTS credits at Level 8 on the National Framework of Qualifications).

FIRE SAFETY CERTIFICATION

(LEVEL 8)
COURSE CODE **CR_CCSXXC_8 (SEM 1)**
CR_CCSXXD_8 (SEM2)

COURSE FEE
€595

ENQUIRIES
Andrew Macilwriath
T: 021 433 5950
E: andrew.macwriath@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CCSXXD8Y0**

The course is based on the Module Descriptor INTR8029 Fire Safety Certification.

This newly developed module addresses fire safety certification legislation and guidance documents for all of the main building types, it should be invaluable to both new users of the relevant fire safety codes, and those that may enjoy a refresher course. All building designers and many contractors will find this short course useful, particularly those involved in fire safety design, and certification of building projects.

DURATION & DELIVERY
Delivery – On-Campus Attendance:
Typically, the hours will be 6pm – 9pm Friday evenings and 9am – 4pm Saturdays for a total of four weekends, exact dates are published on the programme webpage. Information updates may be obtained by contacting the Department of Civil, Structural & Environmental Engineering; the Course Coordinator is Mr Andrew Macilwraith, contact details as above.

ADMISSION REQUIREMENTS
Applicants should hold a minimum of a NFQ Level 7 qualification in Civil/Structural Engineering or Architecture or Architectural Technology or in a cognate discipline.

AWARD
Single Module Certification (5 ECTS credits at Level 8 on the National Framework of Qualifications).

PRACTICAL LAND SURVEYING

(LEVEL 7)
COURSE CODE **CR_CPLSU_7**

COURSE FEE
€600

ENQUIRIES
Jim O'Byrne
T: 021 432 6761
E: jim.obyrne@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRCPLSU7**

The course is based on the Module Descriptor CIVL7025 Practical Land Surveying.

This is a short CPD course for those who have certified competence in Land surveying, linear surveying and levelling. It is particularly suited to construction personnel who are involved with the organisation of surveying and setting out on construction sites. Please note that a delivery of this programme occurs when sufficient demand exists. Applications are held on file and contact is made with interested applicants when the minimum number of students required to deliver the course has been attained.

Having completed this module, an individual would expect to be able to:

- Organise resources, record and process survey data using specialised equipment (e.g. Total Station, GPS, Digital Level)
- Use computer applications to process and manipulate survey data
- Use specialised equipment (e.g. Total Station, GPS, Digital Level) to set out construction works
- Process and present in an appropriate format the outcomes of survey or setting out exercises
- Work as the leader in a team carrying out surveying exercises

CONTENT

Electromagnetic Distance Measurement
Construction and use of equipment. Sources of error and accuracy. Checking adjustment. Field procedures.

Total Stations
Data capture. Setup data. Feature codes, strings and digital ground modelling. Coordinate systems. Software and hardware requirements.

Setting out
Accuracy specification. Stages in setting out. Generation of setting out data. Methods of marking and referencing.

Data Processing
Data formats. Software systems. Digital Terrain Modelling. Data presentation, plans, sections and models. Calculation of volumes.

Global Positioning Systems
Introduction to practical Applications of Global Positioning Systems. Principles of operation. Space, control and user segments. Differential GPS.

DURATION & DELIVERY

The course is typically offered over a number of days, including Saturdays. Exact dates and timetable arrangements are available on the programme webpage. Typically, the hours may be 6pm – 9pm Friday evenings and 9am – 4pm Saturdays for a total of four weekends. Information updates may be obtained by contacting the Department of Civil, Structural & Environmental Engineering. The Course Coordinator is Mr Jim O'Byrne, contact details as above.

AWARD

CIT Single Module Certification in Practical Land Surveying (5 ECTS credits at Level 7 on the National Framework of Qualifications).

DIGITAL LAND SURVEYING AND GPS

(LEVEL 7)
COURSE CODE **CR_CDLSU_7**

COURSE FEE
€600

ENQUIRIES
Jim O'Byrne
T: 021 432 6761
E: jim.obyrne@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRCDLSU7**

The course is based on the Module Descriptor CIVL7005 Digital Land Surveying and GPS.

This is a short CPD course for those who have certified competence in Practical Land Surveying. It is particularly suited to construction personnel who are involved with the organisation of surveying and setting out on construction sites. Please note that a delivery of this programme occurs when sufficient demand exists. Applications are held on file and contact is made with interested applicants when the minimum number of students required to deliver the course has been attained.

Having completed this module,, an individual would expect to be able to:
- establish survey control of determined accuracy using GPS equipment and OSI reference
- compute setting out data from survey and design information
- manipulate field survey data and incorporate design data using specialised software
- critically evaluate the use of advanced positioning instrumentation for setting out

CONTENT
Ordnance Survey
Coordinate systems: Irish National Grid, Irish Transverse Mercator. Heights & Elevations, Geoid Models, Site Adjustments. OSI services.

Global Positioning Systems
Fundamentals of operation for surveying. Correction and sources of error. Radio regulations. Real time kinematic (RTK), Static and Faststatic operation. Field techniques, RTK and Setting Out.

Data Processing
Data capture. Setup data. Feature codes, strings and digital ground modelling. Software and hardware requirements. Data formats. Software systems. Data transfer, Real time and Post processing systems. Adjustments, data export and reports.

Setting Out
Principles of setting out. Coordinate positioning, total stations and GPS. Controlling verticality. Laser instruments. Machine Control. Quality assurance and accuracy.

DURATION & DELIVERY
The course is typically offered over a number of days, including Saturdays. Exact dates and timetable arrangements are available on the programme webpage. Typically, the hours may be 6pm - 9pm Friday evenings and 9am – 4pm Saturdays for a total of four weekends. Information updates may be obtained by contacting the Department of Civil, Structural & Environmental Engineering. The Course Coordinator is Mr Jim O'Byrne, contact details as above.

AWARD
CIT Single Module Certification in Digital Land Surveying and GPS (5 ECTS credits at Level 7 on the National Framework of Qualifications).

SCHOOL OF BUILDING & CIVIL ENGINEERING

DEPARTMENT OF CONSTRUCTION

HEAD OF DEPARTMENT

Dr Daniel Cahill

DEPARTMENT SECRETARY

Carmel Collins
Location: Room A223aL
T: 021 433 5950
E: carmel.collins@cit.ie

COURSES

- Master of Science in Construction Project Management (Level 9)
- Certificate in Mechanical & Electrical Quantity Surveying (Level 8)
- Higher Certificate in Science in Construction (Level 6)
- Bachelor of Science in Construction Management (Level 7)
- Bachelor of Science in Quantity Surveying (Level 7)

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation and timetable arrangements will be sent to all applicants via email update.

MASTER OF SCIENCE IN CONSTRUCTION PROJECT MANAGEMENT

(LEVEL 9)
COURSE CODE **CR_CCOPM_9**

COURSE FEE
€5,000

ENQUIRIES
Colin Donoghue
T: 021 433 5412
E: cpmenquiries@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRCCOPM9**

DURATION & DELIVERY
Part-time students may take modules on a phased basis and achieve the programme qualification over a number of academic years, typically 2 years.

ADMISSION REQUIREMENTS
Applicants must have successfully completed a Level 8 Built Environment Programme or equivalent* with a minimum Second Class Honours Grade 2.

*Equivalence: Where an applicant has not completed a relevant Level 8 programme equivalence is assessed through the formal Recognition of Prior Learning (RPL) process used in CIT (www.cit.ie/rpl).

AIM
A unique programme, developed following Industry demand and Government calls for upskilling, which will provide students with advanced managerial skills in Construction Project Management.

Graduates will be equipped to meet the challenges of managing the design and construction of modern complex developments in a diverse business environment.

The comprehensive module range offers the student extensive choice, facilitating individual areas of expertise.

The learning experience involves a variety of modes, including classroom based lectures, individual and group project work, tutorials, seminars and presentations by visiting experts.

A research dissertation is completed by each student during Stage 2/ Semester 1.

CAREER OPPORTUNITIES
The programme has been designed to suit the distinctive needs of the construction industry and offers excellent career opportunities for graduates as project managers or contract managers with design and construction companies, project management consultants, and government agencies.

CONTENT
Stage 1/Semester 1
Contract Administration/Dispute Resolve
Sustainability in Engineering
Research Skills and Practice
Construction Project Management
Org Management & Knowledge Management

Electives (choose 1)
Corporate Construction Finance
Mechanical & Electrical Services Cost Planning
Strategic Construction
Development Appraisal
Advanced Measurement
Entrepreneurship
New Venture Management & Growth
Strategic Business Management

Stage 1/Semester 2
Eng. Project Management
Global Project Management
Research Project Development
Construction Value & Risk Management

Electives (choose 2)
M&E Measurement
Site Management and Technology
Construction Psychology
Construction Project Controls
Commercial Management
Infrastructure Asset Management
Adaptation and Reuse 2
Environmental Management
Intl Strategies & Organisation
Leadership & Change Management
Managing Innovation

Stage 2/Semester 1
Research Project Realisation (30 ECTS)

Note: Delivery of this programme is subject to sufficient number of applicants.

CERTIFICATE IN MECHANICAL & ELECTRICAL QUANTITY SURVEYING

(LEVEL 8)

COURSE CODE **CR_CMEQS_8**

COURSE FEE

€1,500 or €600 per module

ENQUIRIES

Mark Higgins
T: 021 433 6198
E: meqs@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRCMEQS8**

DURATION & DELIVERY

The course is delivered in one semester. All three modules are undertaken in Semester 1 between September and January.

ADMISSION REQUIREMENTS

Applicants must have achieved a minimum Level 7 Quantity Surveying qualification or equivalent. Where an applicant has not completed a relevant Level 7 programme, equivalence is assessed through the formal Recognition of Prior Learning (RPL) process used in CIT (www.cit.ie/rpl).

AIM

This Certificate programme will provide academically qualified Quantity Surveying graduates with the technical skills and capability in the area of Mechanical and Electrical Quantity Surveying. It enhances their abilities as highly effective practitioners in this specialised area once they have a number of years of practical work experience. It develops the core technical skills of a Mechanical and Electrical Quantity Surveyor in the specific areas of services technology, cost planning and measurement of mechanical and electrical services.

CAREER OPPORTUNITIES

It is anticipated that undertaking this programme will enable practitioners, both in Quantity Surveying and Services, to develop their careers in this specialised area of Mechanical and Electrical Quantity Surveying.

CONTENT

Building Services Technology Evaluation
Identification of, characteristics and selection criteria for cost-effective and sustainable environmental, public health, power supply, security and operational services in residential, commercial and industrial buildings.

M&E Cost Planning
This module will enable the student to understand and use cost data and resource information for the purpose of cost planning and control of Mechanical and Electrical Services.

M&E Measurement
This module will enable the student to measure Mechanical and Electrical Services and build up corresponding rates.

Note: Delivery of this programme is subject to sufficient number of applicants.

AWARD

Certificate in Mechanical and Electrical Quantity Surveying (Level 8 on the National Framework of Qualifications).

HIGHER CERTIFICATE IN SCIENCE IN CONSTRUCTION

(LEVEL 6)
COURSE CODE **CR_CCONE_6**

COURSE FEE
€220 per 5 credit module (inc. exam fee)

ENQUIRIES
Carmel Collins
T: 021 433 5950
E: carmel.collins@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRCCONE6**

DELIVERY
2 evenings per week 6pm – 10pm, depending on modules.

ADMISSION REQUIREMENTS
Leaving Certificate Grade D3 (Ordinary level) in five subjects to include Mathematics and either English or Irish. Special category applicants (e.g. mature students) will be considered on an individual basis.

STRUCTURE
This course is offered under the ACCS Scheme. ACCS is an acronym for "Accumulation of Credits and Certification of Modules". This scheme allows students instead of studying the entire course – to study one or more modules of the course.

Modules passed, are certified individually, and can be accumulated, leading to an award of the Higher Certificate in Science in Construction. The modules to be offered in any year will be decided in consultation with the students. The accumulation of sufficient credits for the award currently involves an average of three years study for the Higher Certificate in Construction.

MODULE INFORMATION
www.cit.ie/course/CRCCONE6
CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments and exams.

CONTENT
Among the areas you would be required to study are:

Stage 1
Construction Technology, Building & Environmental, Measurement and Procedures, Organisation and Management, Construction Mathematics, Construction Graphics and Communications, Construction Industry and Procedures, and Materials and Structures.

Stage 2
Construction Technology, Building and Environmental, Measurement and Estimating, Management, Construction Economics, Construction Law, Cost Planning, and Land Surveying.

AWARD
Higher Certificate in Construction (Level 6 on the National Framework of Qualifications).

FURTHER STUDIES AT CIT
Qualified students are eligible to apply for the BSc in Quantity Surveying and the BSc in Construction Management.

Note: Delivery of this programme is subject to sufficient number of applicants.

BACHELOR OF SCIENCE IN CONSTRUCTION MANAGEMENT

(LEVEL 7)

COURSE CODE **CR_CCMNE_7**

COURSE FEE

€220 per 5 credit module (inc. exam fee)

ENQUIRIES

Carmel Collins
T: 021 433 5950
E: carmel.collins@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRCCMNE7**

DELIVERY

2 evenings per week 6pm – 10pm, depending on modules

ADMISSION REQUIREMENTS

Higher Certificate in Construction. Holders of other relevant qualifications will be considered for admission on an individual basis.

COURSE STRUCTURE

This course is offered under the ACCS Scheme. ACCS is an acronym for "Accumulation of Credits and Certification of Modules". This scheme allows students instead of studying the entire course – to study one or more modules of the course.

Modules passed, are certified individually, and can be accumulated, leading to an award of the Bachelor of Science in Construction Management. The modules to be offered in any year will be decided in consultation with the students. The accumulation of sufficient credits for the award currently involves an average of two years study for the Bachelor of Science in Construction Management.

MODULE INFORMATION

www.cit.ie/course/CRCCMNE7
CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments, and exams.

CONTENT

Among the areas you would be required to study are:

Stage 3
Construction Technology
Management
Development Economics
Construction Finance
Construction Procurement
Construction Contracts
Building and Land Surveying
Construction Resource

AWARD

Bachelor of Science in Construction Management (Level 7 on the National Framework of Qualifications).

Note: Delivery of this programme is subject to sufficient number of applicants.

BACHELOR OF SCIENCE IN QUANTITY SURVEYING

(LEVEL 7)
COURSE CODE **CR_CCECE_7**

COURSE FEE
€220 per 5 credit module (inc. exam fee)

ENQUIRIES
Carmel Collins
T: 021 433 5950
E: carmel.collins@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CECCECE7**

DELIVERY
2 evenings per week 6pm – 10pm, depending on modules

ADMISSION REQUIREMENTS
Higher Certificate in Construction. Holders of other relevant qualifications will be considered for admission on an individual basis.

STRUCTURE
This course is offered under the ACCS Scheme. ACCS is an acronym for "Accumulation of Credits and Certification of Modules". This scheme allows students instead of studying the entire course – to study one or more modules of the course.

Modules passed, are certified individually, and can be accumulated, leading to an award of the Bachelor of Science in Quantity Surveying. The modules to be offered in any year will be decided in consultation with the students. The accumulation of sufficient credits for the award currently involves an average of two years study for the Bachelor of Science in Quantity Surveying.

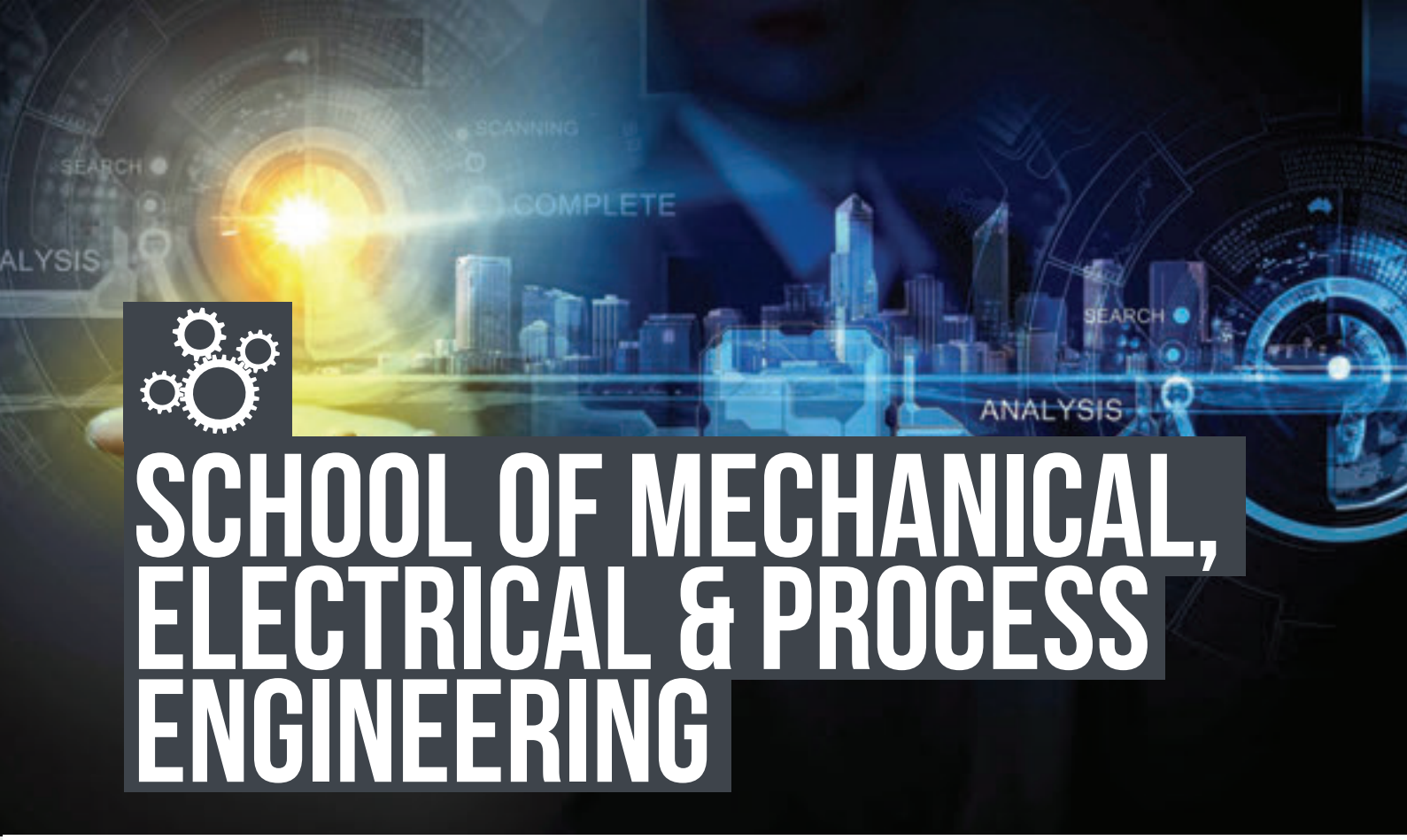
MODULE INFORMATION
www.cit.ie/course/CRCCECE7
CIT has developed a website which gives full details of all modules for all courses. The website also has information on recommended textbooks, average weekly workload, assessments, and exams.

CONTENT
Among the areas you would be required to study are:

Stage 3
Construction Technology
Measurement
Cost Planning
Development Economics
Construction Procurement
Construction Contracts
Construction Finance
Project

AWARD
Bachelor of Science in Quantity Surveying (Level 7 on the National Framework of Qualifications).

Note: Delivery of this programme is subject to sufficient number of applicants.



SCHOOL OF MECHANICAL, ELECTRICAL & PROCESS ENGINEERING

HEAD OF SCHOOL

MATT COTTERELL

The School consists of the following Departments & Centres:

- Mechanical, Biomedical and Manufacturing Engineering
- Centre for Advanced Manufacturing and Management Systems (CAMMS)
- Electrical and Electronic Engineering
- Process, Energy and Transport Engineering
- Centre of Craft Studies

Information evening for continuing education courses for the School of Mechanical, Electrical & Process Engineering will take place at the CIT Bishopstown Campus on Wednesday 5th September 2018, 6.00pm to 8.00pm. Staff will be in attendance to offer career guidance and assistance.

WWW.CIT.IE

SCHOOL OF MECHANICAL, ELECTRICAL & PROCESS ENGINEERING

DEPARTMENT OF MECHANICAL, BIOMEDICAL & MANUFACTURING ENGINEERING

HEAD OF DEPARTMENT

Professor Gerard Kelly

DEPARTMENT SECRETARY

Deirdre Burke
Location: Room A285L
T: 021 432 6505
E: deirdre.burke@cit.ie

COURSES

- Master of Engineering in Mechanical Engineering (Level 9)
- Bachelor of Engineering in Mechanical Engineering (Level 7)
- Mechanical Engineering Science
- Certificate in 3D CAD and Solid Modelling
- Centre for Advanced Manufacturing and Management Systems (CAMMS) See Page 89

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation and timetable arrangements will be sent to all applicants via email update.

MASTER OF ENGINEERING IN MECHANICAL ENGINEERING

(LEVEL 9)
COURSE CODE **CR_EMENG_9**

COURSE FEE
€7,000

ENQUIRIES
Prof. Gerard Kelly
T: 021 433 5438
E: ger.kelly@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREMENG9**

AIM
The programme has been developed to address the need for both new graduates and existing engineers to acquired advanced competencies in computational methods, analytical methods, and design.

Specifically this programme of study is designed to progress your qualifications in the following ways:
- Deepen your technical knowledge, skills and competencies in the core field of Mechanical Engineering through modules in computational methods in solids and fluids, control engineering, and industrial heat and power.
- Deliver specialist knowledge in areas such as integrated design and process modelling and lean sigma.
- Enhance your knowledge and entrepreneurship through strategic business management and managing innovation.
- Enable you to carry out in depth research in an industrially focused sector of Mechanical Engineering through specialist modules in research skills, project realisation, and thesis preparation.

DURATION
It is envisaged that students could complete the programme over 3 years on a part-time basis.

ADMISSION REQUIREMENTS
Applicants must have achieved a minimum of Second Class Honours in a Level 8 Honours Bachelor Degree programme in Mechanical Engineering or equivalent.

CONTENT
Stage 1/Semester 1
Computational Solid Modelling
Engineering Research Skills
Lean Sigma - Advanced Stats
Industrial Heat and Power
Integrated Design & Manufacture
Electives
Sustainability in Engineering
Strategic Business Management

Stage 1/Semester 2
Computational Fluid Dynamics
Modelling of Manufacturing Processes
Research Project Preparation
Group Elective 1
Automatic Process Control
Industrial Control Systems
Electives
Control System Design
Engineering Project Management
Managing Innovation
Free Choice Module

Stage 1/Semester 3 (over the summer months)
Project Realisation (30 ECTS)

AWARD
Master of Engineering in Mechanical Engineering (Level 9 on the National Framework of Qualifications).

BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING (STAGE 3)

(LEVEL 7)
COURSE CODE **CR_EMECN_7**

COURSE FEE
€540 per 5 credit module (inc exam fee)

ENQUIRIES
Tony Kelly
T: 021 433 5436
E: tony.kelly@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREMECN7**

This is 60 credits of the Level 7 degree course, equating to Stage 3 in the full-time programme. It comprises 8 mandatory modules, one free choice 5 credit module, and two project modules (totalling 15 credits) It is envisaged that students could complete the programme over 3 years on a part-time basis.

ADMISSION REQUIREMENTS
Higher Certificate in Mechanical Engineering (NFQ Level 6) or equivalent.

CONTENT
The following four modules are likely to be offered in the 2018/2019 academic year:

Semester 1
Modules (September to December 2018)
• **Technological Maths 301 – Math7020** (5 Credits)

On successful completion of this module the learner will be able to
1. Formulate and identify differential equations.
2. Solve first and second order differential equations using classical methods and interpret the solutions.
3. Solve first and second order differential equations using Laplace transforms and interpret the solutions.

• **Mechatronics 3 PLC Control– Mech7014** (5 Credits)

On successful completion of this module the learner will be able to
1. Analyse, simplify and solve logic circuits.
2. Discuss the concepts of open-loop and closed loop systems and the resulting effects on system gain, stability and sensitivity to parameter variation and external disturbances on control systems.
3. Select suitable feedback and final control elements for pneumatic control systems.
4. Design PLC controlled systems, to performance specifications, using standard software for electro-pneumatic systems.
5. Use an HMI to interact with a control system.

Semester 2
Modules (January to May 2018)
• **Technological Maths 302 – STAT 7003** (5 Credits)

On successful completion of this module the learner will be able to
1. Graphically display and numerically summarise data using methods of descriptive statistics
2. Apply the rules of probability and use probability models for data analysis
3. Compute and interpret point and interval estimates of population parameters
4. Describe the structure of a statistical test of hypothesis
5. Use mathematical and statistical techniques for fitting curves to data
6. Construct and interpret control charts for the sample mean and sample range

• **CAE & Mechanical Design MECH7010** (5 Credits)

On successful completion of this module the learner will be able to
1. Manipulate electronic CAD data for use with Computer Aided Engineering software and systems in design.
2. Analyse digital prototypes using industry standard software.
3. Complete a team design project by applying systematic design principles.
4. Design for fatigue a range of mechanical components.
5. Integrate major international standards (DIN, ISO, BS, Machinery Directive) and hazard analysis techniques into the mechanical design, operation and safety of components and machines

MECHANICAL ENGINEERING SCIENCE

COURSE CODE **CR_EMSCI_6**

COURSE FEE
€1,200 for the academic year (incl. exam fee)

ENQUIRIES
Dan O'Brien
T: 021 433 5425
E: dan.obrien@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREMSCI6**

This course provides candidates with the necessary mechanical engineering science knowledge to progress to degree level studies in mechanical engineering on a part time or full time basis. It is offered on a part-time basis and requires attendance of two evenings per week for the academic year.

ADMISSION REQUIREMENTS
Applicants should have a recognised craft/technician qualification in Mechanical Engineering (or cognate discipline).

CONTENT
Semester 1

- **Mechanical Science (Statics, Stress and Strain) – MECH 6035**

On successful completion of this module the learner will be able to

1. Determine resultants and apply conditions of static equilibrium to plane force systems.
2. Identify and quantify all forces associated with a static framework using either the method of joints or the method of sections.
3. Construct shear force and bending moment diagrams for beams under various loading conditions.
4. Determine the stresses and strains in prismatic structures due to direct/shear and thermal loads.
5. Manipulate the Simple Bending and Simple Torsion equations to solve basic problems in beams and shafts having symmetrical cross sections.

- **Technological Mathematics101 – MATH6012**

On successful completion of this module the learner will be able to

1. Formulate and solve various equations including those involving the laws of indices and logs.
2. Reduce equations to linear form and interpret constants from graphs.
3. Use trigonometry to solve triangles, graph periodic functions and solve trigonometric equations.
4. Apply differentiation to various functions, rates of change, and optimisation.
5. Evaluate definite integrals, apply integration techniques to problems in Science & Engineering, and formulate differential equations.

Semester 2

- **Mechanical Science (Dynamics and Fluids) – MECH 6036**

On successful completion of this module the learner will be able to

1. Manipulate equations of linear and angular motion.
2. Apply momentum, work and energy to linear and angular systems.
3. Apply the laws of friction to objects on the flat and inclined planes.
4. Determine the forces associated with circular motion.
5. Use Bernoulli's equation and the continuity equation to solve problems in fluid dynamic systems.

- **Technological Mathematics201 – MATH6040**

On successful completion of this module the learner will be able to

1. Differentiate parametrically, implicitly, partially and solve related rates of change problems.
2. Apply vector algebra methods to problems involving forces and moments of forces.
3. Integrate by parts and by inverse trigonometric substitution; and apply integration methods to various applied problems.
4. Solve and analyse simultaneous equations using matrix algebra methods.

AWARD
Certificate in Mechanical Engineering Science (Level 6 on the National Framework of Qualifications).

CERTIFICATE IN 3D CAD AND SOLID MODELLING

(LEVEL 6)
COURSE CODE **CR_ECADM_6**

COURSE FEE
€840 for the academic year (incl. exam fee)

ENQUIRIES
Prof. Gerard Kelly
T: 021 4326505
E: ger.kelly@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRECADM6**

This is a general course suited to those with a background in engineering. It is offered on a part-time basis and requires attendance of one evening per week for the academic year.

ADMISSION REQUIREMENTS
The applicant should be competent in two-dimensional CAD.

CONTENT
This programme consists of two modules:

Semester 1
- **Three Dimensional Design using AutoCAD – MECH6041**

On successful completion of this module the learner will be able to
1. Use the World and User systems and define 3D co-ordinates in the construction of 3D drawings.
2. Use multiple viewports and views to construct 3D drawings.
3. Create and edit polygon meshes for surface modelling.
4. Construct and render 3D models in the solid model state and generate 2D views from same.
5. Plot multiple views from finished drawings.

Semester 2
- **Introductory 3D Parametric Modelling – MECH6040**

On successful completion of this module the learner will be able to
1. Use industry specific 3-D parametric modelling software.
2. Develop 3-D models/assemblies.
3. Produce 2-D working drawings from 3-D models.
4. Illustrate the benefits of parametric modelling for design intent.

AWARD
Certificate in 3D CAD and Solid Modelling (Level 6 on the National Framework of Qualifications).

SCHOOL OF MECHANICAL, ELECTRICAL & PROCESS ENGINEERING

CENTRE FOR ADVANCED MANUFACTURING AND MANAGEMENT SYSTEMS (CAMMS)

T: 021 432 6264
E: camms@cit.ie | www.camms.ie

CAMMS HEAD
Daithí Fallon

CAMMS MANAGER
Mike McGrath

The Centre for Advanced Manufacturing & Management Systems (CAMMS) is attached to the Department of Mechanical, Biomedical and Manufacturing Engineering at CIT. CAMMS is a Continuing Professional Development Centre (CPD) within CIT dedicated to providing opportunities for workforce development anad personal upskilling. The centre capitalises on the extensive expertise within CIT together with external professionals to deliver up to date education and training programs in Automation and Control, Lean Sigma, Project Management and Manufacturing Engineering. CAMMS aims to provide career-focused education for the benefit of the personal, intellectual and professional development of students and to solve problems directly related to skills required by industry.

Many CAMMS programmes are validated awards by CIT under delegated authority of Quality Qualifications Ireland (QQI) leading to European Credit Transfer and Accumulation System (ECTS) credits on the National Framework of Qualifications (NFQ). The Centre offers preparatory courses for the Society of Manufacturing Engineers(SME) professional exams and also serves as an Offical exam site.

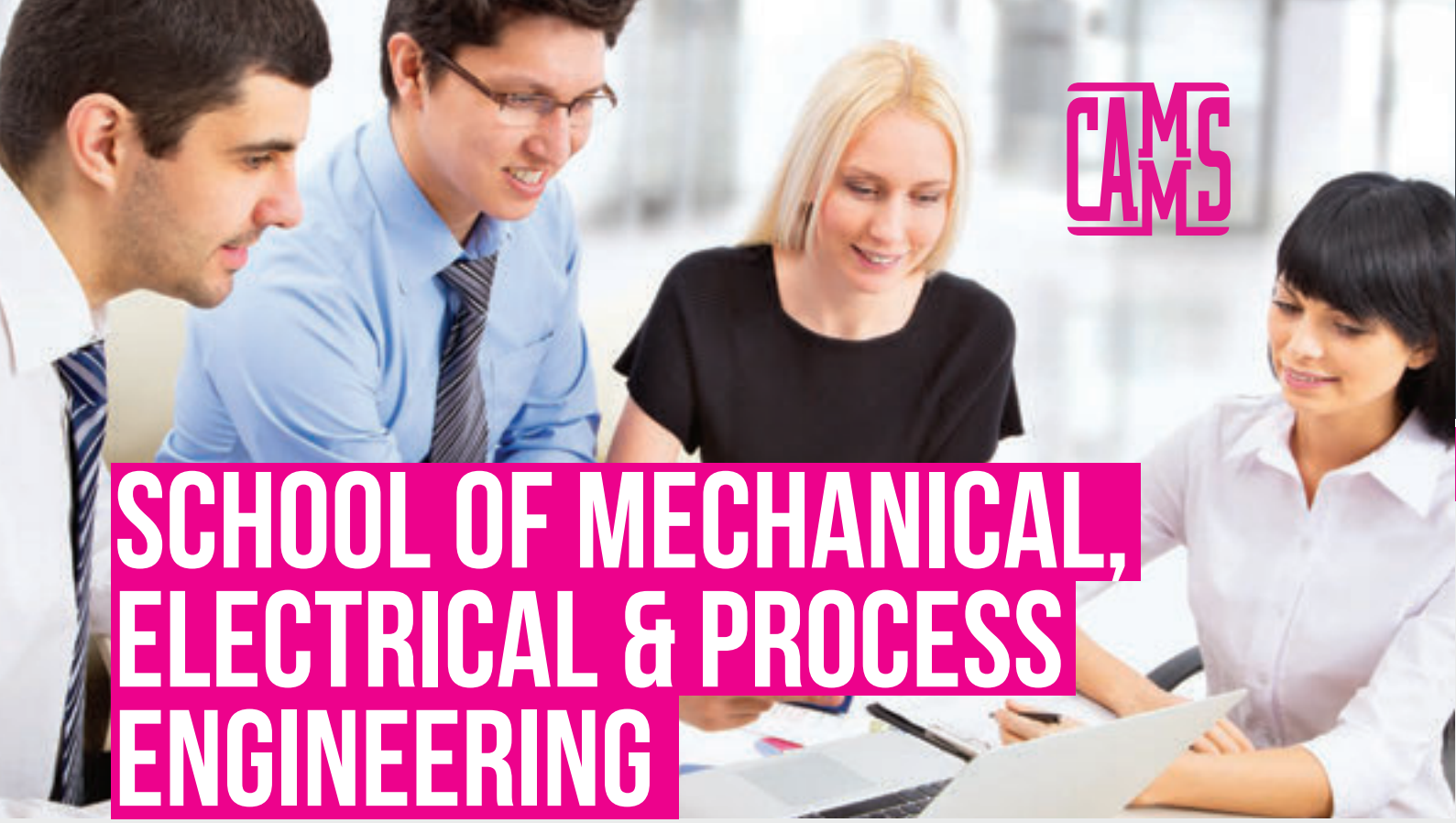
CAMMS is currently delivering thematic knowledge areas that reflect the strengths of the Faculty.

COURSE THEMES INCLUDE:

- Quality, Lean Sigma
- Project Management
- Automation & Control
- Advanced Mechatronics (Part II)
- Manufacturing Engineering
- Biomedical Engineering

Please refer to www.camms.ie for further details.

The Centre is a recognised training provider for Continuing Professional Development (CPD) to Engineers Ireland. Tailored courses can be delivered at your place of work or at CIT across a wide range of disciplines (e.g. Lean Sigma, Biomedical Engineering etc.) through consultation with the Centre's multi-disciplined staff.



SCHOOL OF MECHANICAL, ELECTRICAL & PROCESS ENGINEERING

COURSES

- 1.0 Future Offerings
  - Master Black Belt
  - Certificate in Supervisory Management
  - Lean Sigma Yellow Belt for Operations & Service
  - Revit and Building Information Modelling
- 2.0 Lean & Six Sigma Programmes
  - 2.1 Introduction to Lean & Six Sigma
  - 2.2 Lean Sigma Practitioner, Yellow Belt
  - 2.3 Lean Sigma Green Belt
  - 2.4 Lean Sigma Black Belt
  - 2.5 Continuous Improvement for Production Teams
- 3.0 Project Management Programmes
  - 3.1 Diploma in Project Management
  - 3.2 Project Management Techniques
- 4.0 Automation & Control Systems Programmes (Level 7)
  - 4.1 Certificate in Automation & Control Systems
    - 4.1.1 Mechatronics
    - 4.1.2 SCADA and Automation Systems
    - 4.1.3 Robotics
  - 4.2 Certificate in Advanced Mechatronics (Level 8)
    - 4.2.1 Advanced Mechatronics Part 1
    - 4.2.2 Advanced Mechatronics Part 2
- 5.0 Certified Manufacturing Engineer (CMfgE)
- 6.0 Certificate in Maintenance Technology Fundamentals
- 7.0 Biomedical Engineering Programmes
  - 7.1 Certificate in Biomedical Device Manufacture
  - 7.2 Anatomy of Biomechanics
- 8.0 Bachelor of Engineering Degrees
  - 8.1 Bachelor of Engineering (Honours) in Process Plant Technology
  - 8.2 Bachelor of Engineering (Honours) in Advanced Manufacturing Technology

2.0 LEAN & SIX SIGMA PROGRAMMES

2.1 INTRODUCTION TO LEAN & SIX SIGMA

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE CODE **CR_EILSS_X**

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREILSSX**

Lean is a generic process management term referring to the identification and steady elimination of waste. It is closely linked with Six Sigma because of the methodology's emphasis on reduction of process variation. Lean Sigma introduces the methods and tools used in both techniques.

Note: Introduction to Lean/Lean Sigma is not a pre-requisite to attending the Lean Sigma Yellow Belt, Lean Sigma Green Belt.

CONTENT

- **Day 1:** Introduction to Lean: Introduce the participants to the background to Lean and the concepts behind reducing waste.
- **Day 2:** Introduction to Six Sigma: Explains how Six Sigma targets variation and introduces the concepts.

ADMISSION REQUIREMENTS

This programme requires no prior knowledge or experience of Lean or Lean Sigma. The programme is suitable for all personnel working within the design, manufacturing, transactional, sales or support environment. It is suitable for management and team leaders through to shop floor personnel and employees directly involved in the process.

DURATION

Two full-time days.

CERTIFICATION

CAMMS, CIT. Please contact CAMMS directly for more details.

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.
Note: Delivery of this programme is subject to sufficient number of applicants.

Lean Sigma Black Belt
CR_ESSBB_8

Lean Sigma Green Belt
CR_ESSGS_7

Lean Sigma Practitioner
Yellow Belt
CR_ELEAP_6

Lean Sigma Introduction
CR_EILSS_X

2.2 LEAN SIGMA PRACTITIONER, YELLOW BELT

COURSE CODE **CR_ELEAP_6**

COURSE FEE
€995* (includes course notes and exam fees)

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRELEAP6**

Lean Sigma is a very successful methodology for Service Design and Operational Productivity Improvement. Lean Sigma is based on the elimination of waste and the reduction of variability in processing through engagement and respect for all staff. The Lean Sigma Yellow Belt course introduces the methods and tools for interpretation of customer requirements for service design and operations in all industry sectors. These include Public Service, Healthcare, Biopharma, Insurance, Hospitality, Charities, Software, Call Centre Service, and Manufacturing.

A certified ***Lean Sigma Yellow Belt*** is a professional who will be capable of applying Lean and basic Six Sigma principles and tools as part of a team to drive improvements and show measurable results. The programme consists of assessment of theory by examination, as well as assessment of practice by portfolio. The portfolio is based on the achievement of class project assignments by candidates. The course draws on both the basic problem solving tools and waste identification in processes.

CONTENT
- Introduction to Lean principles
- Lean Sigma Concepts
- Improve service processes
- Understand Voice of the customer
- DMAIC Methodology
- Continuous Improvement Tools
- Tools for eliminating waste
- In class project work

ADMISSION REQUIREMENTS
Candidates must have a total of at least four years combined academic and industrial experience in a suitable working environment with proven ability. It is suitable for all staff.

DURATION
Five days over three months.

AWARDING BODY
Single Module Award
5 ECTS Credits at Level 6 on the National Framework of Qualifications, awarded by Cork Institute of Technology.

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

* Discounts for groups of three or more and Corporate discounts are available. Please contact CAMMS to enquire. External support funding may also be available for this course.

2.3 LEAN SIGMA GREEN BELT

SPECIAL PURPOSE AWARD
15 ECTS CREDITS AT LEVEL 7
COURSE CODE **CR_ELSGB_7**

COURSE FEE

€2,250* (includes course notes and CIT exam fees)

ENQUIRIES

T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRELSGB7**

Lean Sigma is a very successful methodology for Service Design and Operational Productivity Improvement. Lean Sigma is based on the elimination of waste and the reduction of variability in processing through engagement and respect for all staff.

A certified ***Lean Sigma Green Belt*** is a professional who has expertise in Lean Sigma principles, including supporting systems and tools. A Green Belt will demonstrate project team leadership ability. Green Belts understand the application of DMAIC/DMADV models for Service Design and Operational Management in accordance with Lean Sigma principles. They are able to identify non-value added elements and activities and are able to use specific tools. The course draws on both the basic problem-solving tools and basic statistical principles.

CONTENT

- Introduction to Lean and Lean Sigma, DMAIC Methodology
- Coordinating Project Teams
- Defining the Project and setting goals
- Variation and Measurement Techniques
- Analysis of Process Data, Introduction to Statistical Tools
- Cause and Effect, FMEA (Failure Mode & Effect Analysis)
- Process Capability using SPC
- Lean Concepts and Tools
- Project Control, Measuring Success Factors

ADMISSION REQUIREMENTS

Level 6 qualification preferred. At least three years' experience in a suitable working environment with proven ability. It is suitable for management and team leaders, shop floor personnel and employees directly involved in the office or service process.

DURATION & DELIVERY

Nine full days over three months. CIT Awarded Lean Sigma Green Belt (includes course notes and CIT exam fees). Optional two additional days for ASQ Exam preparation.

AWARDING BODY

15 ECTS Credits at Level 7 on the National Framework of Qualifications, awarded by Cork Institute of Technology.

Candidates who complete the Lean Sigma Green Belt Programme will be encouraged to sit the American Society for Quality (ASQ) Lean Sigma Green Belt exam. (Examination fees payable directly to the ASQ).

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

* Discounts for groups of three or more and Corporate discounts are available. Please contact CAMMS to enquire. External support funding may also be available for this course.

2.4 LEAN SIGMA BLACK BELT

30 ECTS CREDITS AT LEVEL 8
COURSE CODE **CR_ESSBB_8**

COURSE FEE
€6,375* (includes course notes and exam fees)

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRESSBB8**

Lean Sigma is a very successful methodology for Service Design and Operational Productivity Improvement. Lean Sigma is based on the elimination of waste and the reduction of variability in processing through engagement and respect for all staff.

A certified ***Lean Sigma Black Belt*** is a professional who is an expert in Lean Sigma philosophies and principles, including supporting systems and tools. A Black Belt will demonstrate team leadership, understand team dynamics, and assign team member roles and responsibilities. Black Belts have a thorough understanding of all aspects of the DMAIC/DMADV models for Service Design and Operational Management in accordance with Lean Sigma principles. They have a thorough knowledge of Lean enterprise concepts, are able to identify non-value added elements and activities and are able to use specific tools. The course draws on both the basic problem-solving tools and advanced statistical principles.

CONTENT
- Introduction to Lean and Lean Sigma, DMAIC Methodology
- Change Management, Team Building, Facilitation, Conflict Resolution
- Project Control, Return on Investment, Critical Success Factors
- Statistical Techniques
- Measurement System Analysis
- Hypothesis Testing, Regression, Control Charts, Process Capability
- Design of Experiments
- Lean Sigma Supply Chain

MENTORING
A work-based project is undertaken as part of the course. Students will receive project support and mentoring from their tutors. Student projects can deliver savings of more than €100,000 per project. As part of the course online support data is provided for all students.

ADMISSION REQUIREMENTS
Level 6/7 qualification preferred. Green Belt qualified or a demonstration of several years of work experience in a supervision role in service or manufacturing industry is required. Experience in Lean or Six Sigma principles is desirable.

DURATION & DELIVERY
21 full days over six months.

AWARDING BODY
30 ECTS Credits at Level 8 on the National Framework of Qualifications, awarded by Cork Institute of Technology.

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

* Discounts for groups of three or more and corporate discounts are available. Please contact CAMMS to enquire. External Support funding may also be available for this course.

2.5 CONTINUOUS IMPROVEMENT FOR PRODUCTION TEAMS

COMPANY BASED GROUP TRAINING
COURSE CODE **CR_ECIPT_X**

APPLICATION
Please email camms@cit.ie for further information.

COURSE FEE
Price will vary on specific company needs.

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE INFORMATION, VISIT **WWW.CIT.IE/COURSE/CRECIPTX**

Continuous improvement is an on-going effort to improve products, services or processes. These efforts can seek "incremental" improvement over time or "breakthrough" improvement all at once. Continuous improvement for production teams involves company based training, concentrating on the forming and development of teams, selecting projects, and then mentoring the operators and facilitators to the completion of these projects.

CONTENT
In general, the course content and delivery is tailored to suit the company's needs. The course content is a combination of delivered lecture material and actual project focused work. Participants will be introduced to continuous improvement practice using basic quality analysis tools and how to apply them in a team environment on company targeted improvement areas. The sessions will include:

TEAM MEMBERS AND FACILITATORS
- Quality concepts and basic quality tools
- Small team project management process
- Project focused work

FACILITATORS ONLY
- Mentoring and Facilitation techniques for Facilitators

Having completed the course, candidates will be able to apply quality tools and to interpret information and data. In addition, they should be able to apply team concepts both as a member and leader. The Facilitators should be able to understand their role in the process and experience being a Facilitator on a given project.

DURATION & DELIVERY
Two or four days delivery, four or six weeks mentoring.

CERTIFICATION
CAMMS, CIT. Please contact CAMMS directly for more details.

3.0 PROJECT MANAGEMENT PROGRAMMES
3.1 DIPLOMA IN PROJECT MANAGEMENT

COURSE CODE **CR_EPMAN_8**

COURSE FEE

€3,850* (includes CIT exam fees and PMI exam preparation)

ENQUIRIES

T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREPMAN8**

With the emergence of Project Management as a standalone profession, international accreditation that is accepted across industries is becoming increasingly important. The course is suitable for individuals who may have practical experience of **either being involved in projects or managing and leading project**s but need to supplement this with the necessary education. This course is aimed at those who seek to employ professional project management methodologies in the Initiation, Planning, Execution, Control and Close-Out of their Projects.

This CIT accredited Special Purpose Award in Project Management uses a combination of external experts and in-house lecturers to provide a broad scope of industrial and academic expertise. Our panel of lecturers and experts includes those with PMI® (Project Management Institute), 'Registered Education Provider' (REP®) Approval. The content and delivery is applicable to all industrial sectors (not just technical projects).

The Program covers all knowledge areas of the internationally recognised professional standard for the practice of Project Management, the PMBOK© (Project Management Body of Knowledge) which is administered by the PMI (Project Management Institute). CIT's Award includes a detailed 2-day preparatory 'boot-camp' course for those candidates who intend to sit for the PMI credentials, the PMP® or CAPM®.

The Special Purpose Award combines advanced Project Management techniques and methodologies with the real-life experiences of an expert panel of leading project management lecturers from a wide range of industrial sectors. The course consists of a combination of lectures, seminars, case studies, guest speakers, simulations and practical projects. Course delegates complete various assignments in the class, as project teams and individual assignments.

The course is designed for those involved in a wide range of projects. Participants come from a broad range of sectors and backgrounds and are typically involved in the planning, control and execution of project work in the broadest sense.

DURATION & DELIVERY

Attendance is 15 full-time days, consisting of one weekend per month (Friday and Saturday), delivered over 8 months. The Award also contains a 2 day 'boot camp' preparation course for the Project Management Institute (PMI) credentials (PMP Project Management Professional or CAPM – Certified Associate of Project Management).

CERTIFICATION

Students who complete all three modules, will be entitled to an accredited Diploma in Project Management (Special Purpose Award– 15 ECTS Credits at Level 8 on the National Framework of Qualifications, awarded by Cork Institute of Technology.

Project Management Institute (PMI): Candidates who complete the SPA in Project Management will be encouraged to sit the Project Management Institute (PMI) exams. PMI exam fees are not included.

To maintain your PMI credential, you must earn 60 PDUs (Professional Development Units) over 3 years. If a student successfully passes their PMI exam prior to the last 2 sessions on the Diploma, that student will earn 36PDUs whilst simultaneously completing their Diploma qualification.

*€3,850, includes CIT exam fees, and PMI exam preparation (PMI exam fee **not** included). Course price includes manuals, soft copies of PMBOK® Compliant Templates and lunch each day. A discount structure is available for groups: 5% for 2 people, 10% for 3 or more.

Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

Please note: Delivery of this programme is subject to sufficient number of applicants.

PM Techniques Graduates are exempt from day 1 – 3

MODULE 1
Project Management Principles

DAY 1
PMBOK Introduction

DAY 2
PMBOK Introduction

DAY 3
PMBOK Introduction

DAY 4
Scope, Time

DAY 5
Cost Communications

Project Management Principles
5 ECTS Credits, Level 8

MODULE 2
Project Management Context

DAY 6
Quality

DAY 7
Risk, HR

DAY 8
Procurement, Integration, Ethics

DAY 9
PMP Preparation

DAY 10
PMP Preparation

Project Management Context
5 ECTS Credits, Level 8

MODULE 3
PM Advanced Concepts

DAY 11
Presentation Skills, PM/EPM

DAY 12
Project Governance, SCM

DAY 13
Legal, Appraising Performance

DAY 14
Strategic PM

Project Management
Advanced Concepts
5 ECTS Credits, Level 9

Diploma in Project Management
15 ECTS Credits, Level 8

3.2 PROJECT MANAGEMENT TECHNIQUES

COURSE CODE **CR_EMBXX_7**

COURSE FEE
€925*

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREMBXX7**

This course is a comprehensive and practical introduction to Project Management. **The content and delivery is applicable to all industrial sectors (not just technical projects).** The content is based on the Project Management Body of Knowledge (PMBOK©) which is administered by the Project Management Institute (PMI) in the USA. The PMBOK is a worldwide recognised professional standard for the practice of Project Management.

The course is aimed at those involved in a wide range of projects. Participants come from a broad range of sectors and backgrounds and are typically involved in the planning, control and execution of project work in the broadest sense. The course is applicable to all industrial sectors (not just technical projects). Lectures are combined with case studies, workshops, simulations and practical projects. Course delegates complete various assignments in the class, as project teams and individual assignments. There are also hands-on computer practical sessions which will be used to instruct participants in the key areas of project planning and control. Candidates should have basic computer skills.

The course focuses on two main areas, primarily learning new tools and techniques to manage projects more effectively. Secondly, to gain increased awareness and learning in the area of 'soft skills' (e.g. leadership, team management, motivation, communication, negotiation, etc.) that are essential to effective project management.

CONTENT
Participants are expected to work on a project of their own choosing. Some short course assignments to be submitted to achieve certification.

- Introduction to Project Management and the fundamentals
- Project selection & initiation. Defining the Project Charter and Project Scope
- Project Planning and defining the Work Breakdown Structure (WBS)
- Managing Project Scope and Change in projects
- Project Time Management – Activity Definition, Activity Duration Estimating, Activity Sequencing, Schedule Development, Schedule Control
- Project Scheduling Software – MS Project version to 2016
- Progress measurement and reporting
- Managing Project Quality and Risk management
- Managing Project Finance and Resources
- Managing People – Team development and the Project Managers Role
- Improving personal effectiveness as a project manager
- Leadership Styles, Communication, Negotiating
- Project Closeout and Evaluation

DURATION & DELIVERY
One evening per week for 12 weeks, Thursday, 6.30pm – 9.30pm.

AWARDING BODY
5 ECTS Credits at Level 8 on the National Framework of Qualifications, awarded by Cork Institute of Technology.

Note: Successful participants from the evening class will be eligible to two days exemption from the Diploma in Project Management and a reduced price from €3,850 to €3,250.

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

* A discount structure is available for groups: 5% for 2 people, 10% for 3 or more.

4.0 AUTOMATION AND CONTROL SYSTEMS PROGRAMME
4.1 CERTIFICATE IN AUTOMATION & CONTROL SYSTEMS

SPECIAL PURPOSE AWARD – 20 ECTS CREDITS AT LEVEL 7
COURSE CODE **CR_EACSY_7**

Students who successfully complete the modules Mechatronics; SCADA & Automation Systems; and Robotics will be entitled to a Certificate in Automation & Control Systems (Special Purpose Award).

COURSE FEE
Overall Fee: €3,100 (Only applicable when ALL three modules are taken in one academic year)

SPRINGBOARD+
FUNDING OPTION AVAILABLE
SEE PAGE 8 FOR ELIGIBILITY

ENQUIRIES
T: 021 432 6264 E: camms@cit.ie W: www.camms.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREACSY7**

These modules can also be taken and certified individually. Please see course code, fee, and online application for each module.

4.1.1 MECHATRONICS

COURSE CODE **CR_EACSY_7**

COURSE FEE
€1,950*

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREACSY7**

CONTENT
Practical
- Pneumatic design and implementation
- Electro-pneumatic design and implementation
- PLC design and implementation
- Mechatronic design and implementation

THEORY
- Principles of the "Total Engineering Approach" to production systems
- Principles of typical sensors
- Principles of pneumatic, mechanical and electrical actuation systems
- Principles of embedded control (PLCs, controllers)
- Design, build and fault find on mechatronic systems

This course covers the practical and theoretical requirements for certification by CIT. Certification requires that a candidate provides evidence of competence in the construction, operation and maintenance of pneumatic and electro-pneumatic systems through practical tasks and by meeting knowledge criteria.

The course also covers PLC programming to a high standard of achievement allowing students to programme training rigs and develop knowledge of industrial Mechatronic installations.

ADMISSION REQUIREMENTS
Candidates must have at least two years relevant industrial experience and should have obtained their Leaving Certificate or an appropriate craft/technician qualification.

DURATION & DELIVERY
One evening per week for one academic year, one module per semester.

AWARDING BODY
10 ECTS Credits at Level 7 on the National Framework of Qualifications, awarded by Cork Institute of Technology.

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

* Discounts available for groups of three or more.

4.1.2 SCADA & AUTOMATION SYSTEMS

COURSE CODE **CR_EACSY_7**

COURSE FEE
€925*

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREACSY7**

Automation has been an essential tool in enhancing productivity and competitiveness for manufacturing industries. Automation is used to improve manufacturing performance, reduce operational costs and improve quality. Most industrial plants now have some form of automation, which is controlled and monitored by SCADA systems. This course enables participants to adjust, service, maintain, and design modern equipment, and to design and develop SCADA control systems.

During the course, real data from a process control rig and flexible assembly line will be utilised in the design of applications.

CONTENT
- Computer based automation systems
- Control systems
- Connection and circuit technology for transducers
- PLC configuration and control
- Safety systems
- SCADA (Supervisory Control and Data Acquisition)

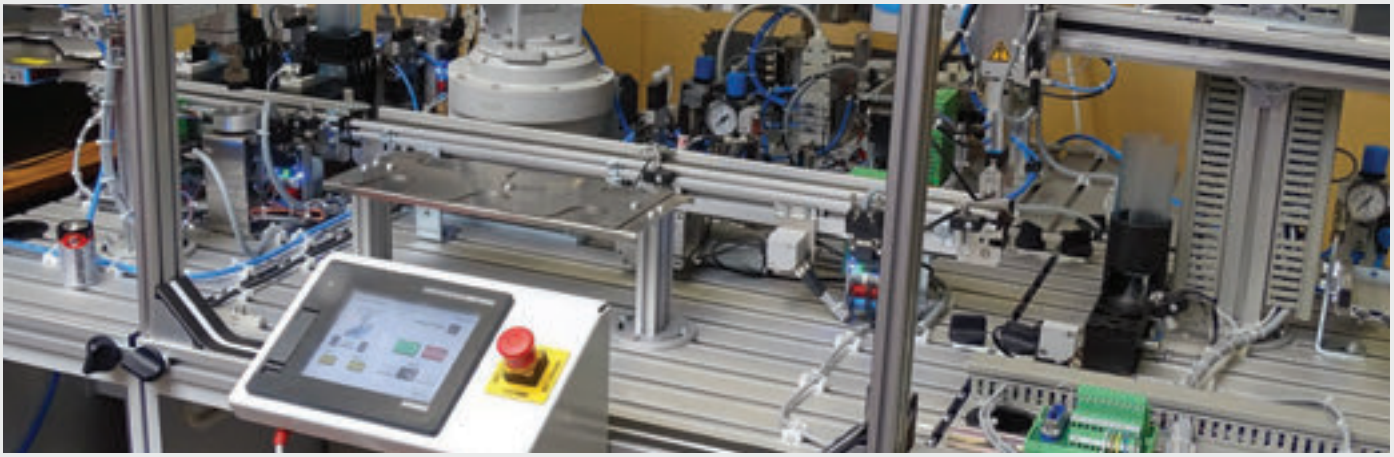
ADMISSION REQUIREMENTS
Candidates must have at least two years relevant industrial experience and should have obtained their Leaving Certificate or an appropriate craft/technician qualification.

DURATION & DELIVERY
One evening per week for 12 weeks in Semester 1.

AWARDING BODY
5 ECTS Credits at Level 7 on the National Framework of Qualifications, awarded by Cork Institute of Technology.

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

* Discounts available for groups of three or more.



4.1.3 ROBOTICS

COURSE FEE
€925*

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE CODE **CR_EACSY_7**

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREACSY7**

An industrial robot is defined as “an automatically controlled, reprogrammable, multipurpose device, for use in industrial automation applications”.

This course gives participants an understanding in Industrial Robotics programming and design, and an indepth knowledge of Robotic Sensors.

CONTENT
- Robotic cell design
- End effectors
- Robotics programming
- External sensors

ADMISSION REQUIREMENTS
Candidates must have at least two years relevant industrial experience and should have obtained their Leaving Certificate or an appropriate craft/technician qualification.

DURATION & DELIVERY
One evening per week for 12 weeks in Semester 2.

AWARDING BODY
5 ECTS Credits at Level 7 on the National Framework of Qualifications, awarded by Cork Institute of Technology.

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

* Discounts available for groups of three or more.

4.2 CERTIFICATE IN ADVANCED MECHATRONICS

SPECIAL PURPOSE AWARD – 10 ECTS CREDITS AT LEVEL 8
COURSE CODE **CR_EAMEC_8**

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREAMEC8**

Students who successfully complete the modules Advanced Mechatronics Part 1; and Advanced Mechatronics Part 2 will be entitled to a Certificate in Advanced Mechatronics (Special Purpose Award).

COURSE FEE

Overall Fee: €1,850* (Only applicable when BOTH modules are taken in one academic year).

ENQUIRIES

T: 021 432 6264 E: camms@cit.ie W: www.camms.ie

These modules can also be taken and certified individually. Please see course code, fee, and online application for each module.

We have seen a dramatic change in the complexity of programming and control of modern day machines, where for example controllers use languages like C++ now instead of Ladder Diagram and Soft Motion for more complex machine movements and faster changeovers.

With the integration of Mechanical, Electrical and Electronic equipment in modern day industry, there is a need for an integrated approach to the training requirements for personnel to be able to adjust, service, maintain, programme and design modern equipment. This would include the advanced programming of PLCs, servo drives, machine safety systems, networking, mechanical setup and adjustment of sensors.

The aim of this Special Purpose Award is to address the short fall in the needs of training at this level of automation.

4.2.1 ADVANCED MECHATRONICS PART 1

COURSE CODE **CR_EAMEC_8**

COURSE FEE

€980* (Includes course notes and exam fees)

ENQUIRIES

T: 021 432 6264 E: camms@cit.ie
W: www.camms.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREAMEC8**

MODULE CONTENT

- Principles of the five IEC languages, Ladder, Instruction List, Sequential Function Chart, Function Block & Structured Text.
- Principles surrounding BUS systems, including CAN, Profibus, ProfiNet, Ethernet, describing addressing, PLC settings, Tag names etc.
- Principles of Analogue sensors, showing resolution, scaling, wiring, types of input 0-10V 4-20MA etc.
- Principles of safety systems up to category 4 machine safety, Safety Relays, Safety PLC's, interlocking devices.
- Principles of Servo Drive systems, Homing methods, signaling methods i.e. Digital or Bus signalling. Speeds, acceleration etc.

ADMISSION REQUIREMENTS

Candidates must have successfully completed the CIT Level 7 Mechatronics Module or equivalent and some relevant work experience working in in the area of Mechatronics.

DURATION & DELIVERY

One evening per week for 12 weeks in Semester 1.

AWARDING BODY

5 ECTS Credits at Level 8 on the National Framework of Qualifications, awarded by Cork Institute of Technology.

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

* Discounts available for groups of two or more.

4.2.2 ADVANCED MECHATRONICS PART 2

COURSE CODE **CR_EAMEC_8**

COURSE FEE
€980* (Includes course notes and exam fees)

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREAMEC8**

MODULE CONTENT

- **Industrial Networking**
  Programme PLCs to control Servo Drives, Vision systems & Robotic interaction with mechatronic systems across CAN Open, ProfiBus, ProfiNet and Ethernet.
- **Integration of PLCs and Servo Drive systems**
  Programme Servo Drive Controllers to communicate with a PLC in a discrete manner. Programme the PLC to give positional control data to the Servo Drive controller.
- **Vision systems**
  Programme Vision Systems to determine location, shape and orientation of objects. Programme PLCs and Robotic systems to use the information from the vision system.
- **Soft Motion Control**
  Introduce Soft Motion Control for the control of Servo Drive positioning, demonstrating the use of CNC code embedded within a PLC function block.

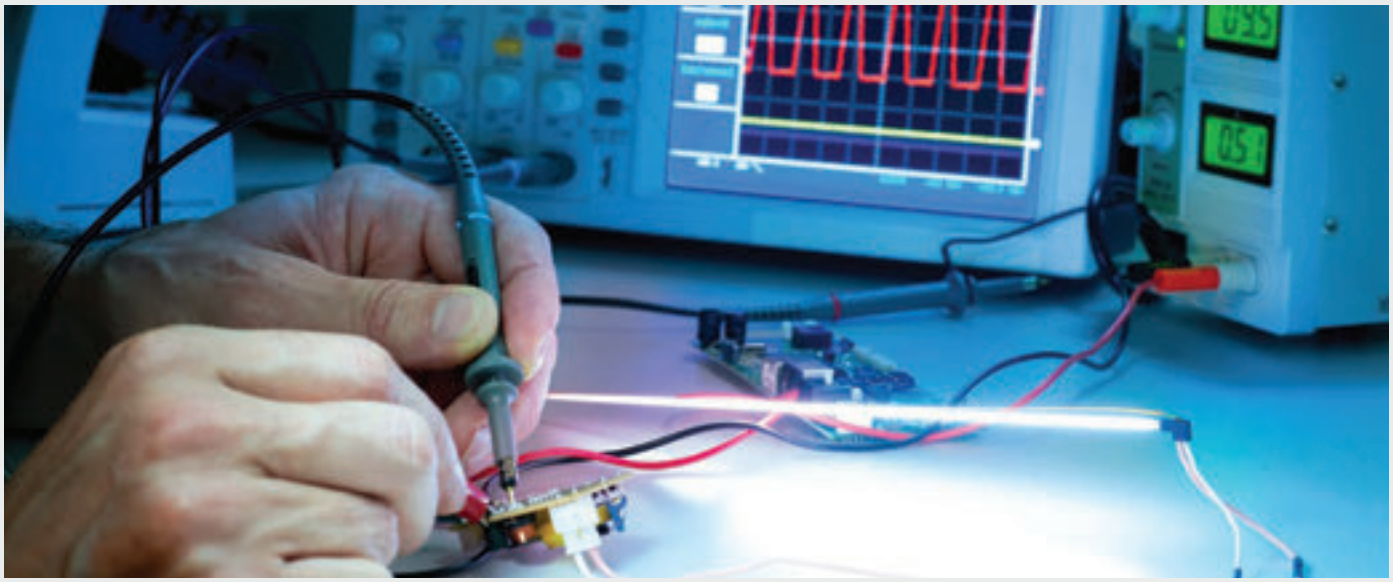
ADMISSION REQUIREMENTS
Candidates must have successfully completed the CIT Level 7 Mechatronics Module or equivalent and some relevant work experience working in in the area of Mechatronics.

DURATION & DELIVERY
One evening per week for 12 weeks in Semester 1.

AWARDING BODY
5 ECTS Credits at Level 8 on the National Framework of Qualifications, awarded by Cork Institute of Technology.

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

* Discounts available for groups of two or more.



5.0 CERTIFIED MANUFACTURING ENGINEER (CMfgE)

COURSE CODE **CR_ECMEN_6**

COURSE FEE

€975 includes course textbook.
(Course Fee does not include exam fee, payable to the SME).

ENQUIRIES

T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

CAMMS

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRECMEN6**

The course is based on a body of knowledge specified for certification by the Society of Manufacturing Engineers (SME) which is based in the USA. Its prime aim is to provide recognition for candidates who have several years manufacturing experience but no qualification to show for their work-based expertise.

CONTENT

- Manufacturing Planning and Control
- Quality Management and Quality Tools
- Analysis of Manufacturing Processes
- Facility Layout and Planning
- Computer Integrated Manufacturing
- Occupational Health and Safety

ADMISSION REQUIREMENTS

Candidates must have a minimum of eight years manufacturing-related work experience and/or education (a maximum of five years of education may be applied toward the eight years experience/education requirement).

DURATION & DELIVERY

One evening per week for the academic year.

AWARDING BODY

Society of Manufacturing Engineers (SME).

Note: CIT is not the examining body for this programme but acts as an official exam site.

Delivery of this programme is subject to sufficient numbers of applicants.

6.0 CERTIFICATE IN MAINTENANCE TECHNOLOGY FUNDAMENTALS

20 ECTS CREDITS AT LEVEL 6
COURSE CODE **CR_EMTEF_6**

COURSE FEE
€3,300* (€825 per module)

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREMTEF6**

This programme in 'Maintenance Technology Fundamentals' aims to provide participants with an understanding of mechanical and electrical plant along with various control systems including electronic and pneumatic systems including programmable controllers as they relate to industry. The programme addresses fault finding, isolation and repair techniques along with routine maintenance of the various components in production systems.

At the end of the programme, delegates should be able to demonstrate:

- A knowledge of the technology and practice relating to production processes
- The ability to fault find, isolate and repair equipment in the production industry
- The application of technical knowledge and skills to fault find and repair process equipment and systems
- The knowledge and skills relevant to the problem solving of systems and system components in a production, process and industrial environment
- The ability to identify and solve common mechanical, electrical and control malfunctions

CONTENT

Semester 1
Electrical Power Systems
Mechatronics 1

Semester 2
PLC Application
Mechatronics 2

ADMISSION REQUIREMENTS

Leaving Certificate is desirable but not essential. Relevant work experience, skills gained through experiential learning and other qualifications will be considered when assessing applications for the programme.

DURATION & DELIVERY

2 semesters of 13 weeks, 2 Modules per Semester.

AWARDING BODY

20 ECTS Credits at Level 6 on the National Framework of Qualifications, awarded by Cork Institute of Technology.

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

* Discounts available for Skillnet Companies.

7.0 BIOMEDICAL ENGINEERING PROGRAMMES

7.1 CERTIFICATE IN BIOMEDICAL DEVICE MANUFACTURE

10 ECTS CREDITS AT LEVEL 7
COURSE CODE **CR_EBMDM_7**

COURSE FEE

€1,450* (includes course notes and exam fees)

ENQUIRIES

T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

CAMS

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREBMDM7**

This programme was developed for anyone seeking employment in or transferring into the Biomedical Devices Sector as well as anyone wishing to enhance their general knowledge of the industry. The programme is structured around common medical disorders which are treated by biomedical devices manufactured in Ireland. On completion, participants will be familiar with a range of disorders, the anatomy and physiology associated with these disorders, the devices used in their treatment, and the processes involved in the manufacture of these devices.

The programme also familiarises participants with the engineering requirements and standards that apply to cleanrooms employed in the manufacture of medical devices. The programme looks at the specification of appropriate cleaning, packaging and sterilisation operations for medical devices, the assessment of the safety risks associated with manufacturing operations and the requirements for guaranteeing a safe working environment.

The programme also examines the detailed requirements of a Good Manufacturing Practice (GMP) system and the operation of regulatory bodies such as FDA/IMB.

CONTENT

- **Anatomy**
  General anatomy, Neuro Anatomy, Cariovascular anatomy, Orthopaedics.
- **Medical Devices**
  Devices used in the treatment of neurovascular, cardiovascular, orthopaedic disorders and product development history.
- **Manufacturing Processes**
  Introduction to manufacturing processes; injection moulding, extrusion, wiredrawing; catheter coating process, embolic coil manufacturing.
- **Cleanroom Technology**
  Cleanroom classification; particle size and counting; filter design and performance, cleanroom layout, materials & standards, cleanroom commissioning and qualification.
- **Cleaning and Sterilisation Technology**
  Requirements for cleaning, soil types, cleaning systems organic/aqueous/semiaqueous), cleaning equipment. Ethylene oxide. Gamma sterilisation, electron beam. Saturated steam – gravity displacement, porous load, ballasted cycles. Dry heat sterilisation/depyrogenation. Microbial inactivation/endotoxin inactivation.
- **Packaging**
  Functions of packaging, packaging requirements for sterilisation, physical & chemical properties of packaging, labelling and packaging control, distribution hazards, production of packages, forming materials and methods, lidding, sealing.
- **GMP**
  Introduction to GMP, GMP documentation – SOPs/regulatory documentation/submissions, Role and requirements of the FDA/IMB/Notified Bodies, introduction to 21 CFR820/Medical Devices Directive, planning for audits. Classification of devices. FDA/IMB submissions – 510k/PMA applications.
- **Validation**
  Validation protocols – Installation, operational and performance qualification. Process validation, design qualification, validation of sterilisation system, design verification, design validation. URS/FDS/FAT/SAT master validation plans. Change control.

ADMISSION REQUIREMENTS

This course is open to anyone with a minimum of two years industrial experience

DURATION & DELIVERY

One evening per week for 13 weeks.

AWARDING BODY

CIT: Certificate in Biomedical Device Manufacture, Special Purpose Award 10 ECTS credits at Level 7 on the National Framework of Qualifications.

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

* Discounts available for groups of three or more.

7.2 ANATOMY OF BIOMECHANICS

COURSE FEE
€1,300* (includes course notes and exam fees)

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE CODE **CR_EBMEC_8**

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREBMEC8**

This programme covers the anatomical basis of the biomechanics of selected major body systems: the musculoskeletal, nervous and circulatory. The main emphasis is on living, functional anatomy. There will be continual reference to clinical conditions. Course delivery will be through interactive lectures and tutorials, combined with study of anatomical models.

CONTENT
- Introduction: Anatomical terminology and organisation of skeletal, muscular, nervous and cardiovascular tissues.
- Joints: Classification by form; relationships of form to function; examples from limb joints.
- Muscles: Muscle types; skeletal muscle types; structure function relationships; innervation.
- Nervous system: Organisation of brain and spinal cord; somatotopic organisation in the central nervous system; the production of movement.
- Limbs: Muscle groups and patterns of muscle organisation; functional anatomy of the principal joints (hip, knee, ankle, shoulder, elbow, wrist).
- Trunk, head and neck: Basic body plan; body wall skeleton, muscles, innervation; organisation and distribution of cardiovascular components; blood supply to heart and brain; heart – morphology and function; coronary circulation; anatomy of stroke.
- Vertebral column and pelvis: structure – function relationships, including force transmission.

DURATION
Three days

Note: This course is ONLY available to Groups of 10 or more.

CERTIFICATION
CAMMS, CIT. Please contact CAMMS directly for more details.

Note: Places are limited for this course. Eligible candidates will be considered on a first come first served basis.

8.0 BACHELOR OF ENGINEERING DEGREES
8.1 BACHELOR OF ENGINEERING (HONOURS) IN PROCESS PLANT TECHNOLOGY

COURSE CODE **CR_EPPTN_8**

COURSE FEE
See module listing

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREPPTN8**

This course aims to produce graduates who can make a significant contribution to the design, operation, maintenance and management of process plant. The course concentrates on the mechanical aspects of process engineering design and selection, plant construction, condition monitoring, productive maintenance, plant safety, automation and control systems, project management and investment appraisal. This honours degree programme will help participants to develop the skills and knowledge to implement change and to undertake key operational management roles.

ADMISSION REQUIREMENTS
Merit or better in a relevant Diploma course or equivalent. Are you eligible for Recognition of Prior Learning (RPL)? For details, see the information section at the beginning of this Handbook.

DURATION & DELIVERY
Three evenings per week, 7pm – 10pm, and one Saturday per month, 10am – 5pm. The course can be completed in two academic years.

AWARD
Bachelor of Engineering (Honours) in Process Plant Technology (Level 8 on the National Framework of Qualifications).

MODULES	ANNUAL FEE PER MODULE
Mandatory	
Project	€1350
Quality Engineering	€510
Engineering Project Management	€510
Process Automation & Control	€510
Mathematics and Statistics	€510
Process Plant Services	€510
Process Plant Equipment	€510
Maintenance & Reliability	€510
Facilities	€510
Electives (choose 1)	
Automation Systems	€510
Advanced Materials and Processes	€510

8.2 BACHELOR OF ENGINEERING (HONOURS) IN ADVANCED MANUFACTURING TECHNOLOGY

COURSE CODE **CR_EAMTN_8**

COURSE FEE
See module listing

ENQUIRIES
T: 021 432 6264
E: camms@cit.ie
W: www.camms.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREAMTN8**

All industries involved in the production of goods, whether biomedical, pharmaceutical, chemical, process, electronic or aeronautical require manufacturing engineers. These industries invest heavily in the most up to date automation, software and process control equipment as well as utilising the most modern of training and management techniques.

This honours degree programme aims to produce graduates who can make a significant contribution to the design, operation, and management of manufacturing systems, as well as to the quality and reliability of manufactured products, parts and equipment.

ADMISSION REQUIREMENTS
Merit or better in a relevant Diploma course or equivalent. Are you eligible for Recognition of Prior Learning (RPL)? For details, see the information section at the beginning of this Handbook.

DURATION & DELIVERY
Three evenings per week, 7pm – 10pm, and one Saturday per month, 10am – 5pm. The course can be completed in two academic years.

AWARD
Bachelor of Engineering (Honours) in Advanced Manufacturing Technology (Level 8 on the National Framework of Qualifications).

MODULES	ANNUAL FEE PER MODULE
Mandatory	
Project	€1350
Quality Engineering	€510
Engineering Project Management	€510
Automation Systems	€510
Mathematics and Statistics	€510
Product Development	€510
Manufacturing Systems	€510
Maintenance & Reliability	€510
Facilities	€510
Electives (choose 1)	
Process Automation & Control	€510
Advanced Materials and Processes	€510

SCHOOL OF MECHANICAL, ELECTRICAL & PROCESS ENGINEERING

CENTRE OF CRAFT STUDIES

HEAD OF CENTRE
Michael Hourihan
T: 021 433 5912
E: michael.hourihan@cit.ie

DEPARTMENT SECRETARY
Geraldine Mahon
Location: Room B160L
T: 021 433 5910
E: geraldine.mahon@cit.ie

COURSES

WELDING COURSES
- Welding (Basic)
- Coded Welding Course – Mags Welding
- Coded Welding Course – Tags Welding
- Coded Welding Course – Arc Welding

AUTOMOTIVE COURSES
- Certificate in Automotive Technology (Level 6)
- Certificate in Automotive Powertrain Technology (Level 7)
- Engine Management Diagnostics (Level 7)

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All courses offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation, and timetable arrangements will be sent to all applicants via email update.

WELDING COURSE (BASIC)

COURSE FEE
€450

ENQUIRIES
Geraldine Mahon
T: 021 433 5910
E: geraldine.mahon@cit.ie

COURSE CODE **CR_BASIC_4_1**

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBASIC4**

This course provides a practical introduction to three common welding processes which are used in industry.

DURATION & DELIVERY
7 x 3.5 hour evenings, practical training classes

CONTENT
Candidates may take any or all of the following Welding Processes:
- Manual Metal-Arc Welding (MMA) rutile electrodes;
- Metal-Arc Gas Shielded welding (MAGS) solid wire;
- Tungsten Arc Gas Shielded welding (TAGS) carbon steel/stainless steel.

AWARD
A Certificate of attendance for candidates on successful completion of the course.

CODED WELDING COURSE – MAGS WELDING

(LEVEL 6)
COURSE CODE **CR_MAGS_6_1**

COURSE FEE
€450 (excl. test fee €65 per specimen sent for NDT)

ENQUIRIES
Geraldine Mahon
T: 021 433 5910
E: geraldine.mahon@cit.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRMAGS6**

This course is geared towards Craft persons/welders and other suitable candidates working in general steel fabrication plate/pipe and construction industry who wish to gain a coded welding qualification in the MAGS Welding process to EN ISO 9606 (EN 287) & ASME IX, standard.

DURATION & DELIVERY
7 x 3.5 hour evenings, practical training classes and one night for testing.

ADMISSION REQUIREMENTS
A good working knowledge of the appropriate welding process is necessary.

CONTENT
Candidates may take any or all of the following Welder Qualification tests:
- Metal-Arc Gas Shielded welding (MAGS) solid wire, butt and fillet welds in plate, horizontal/vertical position;
- Metal-Arc Gas Shielded welding (MAGS) flux cored wire, fillet welds in plate horizontal/vertical position.
- Metal-Arc Gas Shielded welding (MAGS) solid wire, butt and fillet welds in plate, vertical up position.

AWARD
A Welder Qualification Certificate to EN ISO 9606 (EN 287) & ASME IX will be awarded to candidates on successful completion of any of the listed tests to the required standard.

CODED WELDING COURSE – TAGS WELDING

(LEVEL 6)
COURSE CODE **CR_TAGS_6_1**

COURSE FEE
€450 (excl. test fee €65 per specimen sent for NDT)

ENQUIRIES
Geraldine Mahon
T: 021 433 5910
E: geraldine.mahon@cit.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRTAGS6**

This course is geared towards Craft persons/welders and other suitable candidates working in general steel fabrication plate/pipe and construction industry who wish to gain a coded welding qualification in the TAGS Welding process to EN ISO 9606 (EN 287) & ASME IX, standard.

DURATION & DELIVERY
7 x 3.5 hour evenings, practical training classes and one night for testing.

ADMISSION REQUIREMENTS
A good working knowledge of the TAGS welding process is necessary.

CONTENT
Candidates may take any or all of the following Welder Qualification tests:

- Tungsten Arc Gas Shielded welding (TAGS) stainless steel pipe Ø 48 mm x 2.77 mm wall thickness in Positions PA,PF,PC & H-L045;
- Tungsten Arc Gas Shielded welding (TAGS) carbon steel pipe Ø 89 mm x 5.5 mm wall thickness in Positions PA,PF,PC & H-L045.

AWARD
A Welder Qualification Certificate to ISO 9606 (EN 287) & ASME IX will be awarded to candidates on successful completion of any of the listed tests to the required standard.

CODED WELDING COURSE – ARC WELDING

(LEVEL 6)
COURSE CODE **CR_ARC_6_1**

COURSE FEE
€450 (excl. test fee €65 per specimen sent for NDT)

ENQUIRIES
Geraldine Mahon
T: 021 433 5910
E: geraldine.mahon@cit.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRARC6**

This course is geared towards Craft persons/welders and other suitable candidates working in general steel fabrication plate/pipe and construction industry who wish to gain a coded welding qualification in the MMA Welding process to ISO 9606 (EN 287) & ASME IX, standard.

DURATION & DELIVERY
7 x 3.5 hour evenings, practical training classes and one night for testing.

ADMISSION REQUIREMENTS
A good working knowledge of the appropriate welding process is necessary.

CONTENT
Candidates may take any or all of the following Welder Qualification tests:

- Manual Metal-Arc Welding (MMA) rutile electrodes, butt and fillet welds in plate, vertical up position
- Manual Metal-Arc Welding (MMA) basic electrodes, butt and fillet welds in plate, vertical up position

AWARD
A Welder Qualification Certificate to ISO 9606 (EN 287) & ASME IX will be awarded to candidates on successful completion of any of the listed tests to the required standard.

CERTIFICATE IN AUTOMOTIVE TECHNOLOGY

(LEVEL 6)
COURSE CODE **CR_EAUTE_6**

COURSE FEE
€650 (incl. exam fee)

ENQUIRIES
JJ Buttimer
T: 021 432 6737
E: jj.buttimer@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREAUTE6**

DELIVERY
One night per week for one academic year.

ADMISSION REQUIREMENTS
Leaving Certificate or relevant craft qualification.

CONTENT
The course will consist of two modules:
- Mechanical Automotive Technology AUTO6028
- Electrical Automotive Technology AUTO6029

The course covers the fundamentals of automotive technology and automotive electricity. The areas covered will include engines, transmissions, brakes, suspension, steering and automobile electrical components, circuits and systems. This is a classroom-based course.

Mechanical Automotive Technology
On successful completion of this module the learner will be able to
- List primary engine components and associated subsystems.
- Explain the operation of a spark and compression ignition internal combustion engine.
- Define the internal components of a transmission and final drive arrangements and explain their operating principles.
- Describe the layout and operating principles of the steering and suspension systems as fitted to light vehicles.
- Explain the fundamental operating principles of a vehicle's hydraulic braking system.

Electrical Automotive Technology
On successful completion of this module the learner will be able to
- Explain the fundamental operating principles of electricity.
- Calculate automotive electrical circuit operations using Ohms law.
- Discuss the operation of automotive electrical consumers and loads.
- Evaluate the operation of automotive electrical circuits and systems using automotive electrical test equipment.

AWARD
Special Purpose Award (10 ECTS credits at Level 6 on the National Framework of Qualifications).

AWARDING BODY
Cork Institute of Technology

CERTIFICATE IN AUTOMOTIVE POWERTRAIN TECHNOLOGY

(LEVEL 7)
COURSE CODE **CR_EAUPT_7**

COURSE FEE
€650 (incl. exam fee)

ENQUIRIES
Gary O'Neill
T: 021 432 6711
E: gary.oneill@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREAUPT7**

DURATION & DELIVERY
One night per week for one academic year.

ADMISSION REQUIREMENTS
Automotive Technology 1 or equivalent.

CONTENT
The course will consist of two modules:
- Automotive Powertrain Electronics AUTO7015
- Automotive Mechanical and Electrical Systems AUTO7014

The course covers more advanced aspects of automotive electrical components and systems. The course will include coverage of engine construction, timing diagrams diesel and petrol systems, transmission systems, gearboxes, drive layouts, steering, suspension and brake systems. It will also cover electrical circuit principles, sensors, actuators displays, fault-finding ignition/injection systems, lighting and cooling systems, ABS Braking and SRS Systems. This is a classroom based course.

1. Automotive Powertrain Electronics
On successful completion of this module the learner will be able to
- Interpret technical information linked to automotive electrical schematics and diagrams.
- Describe low voltage automotive electrical circuits and vehicle sub-systems.
- Describe automotive heavy duty rotating electrical components and systems.
- Describe automotive electronic fuel injection systems and after treatment emission control devices.
- Explain how to repair automotive mechanical, hydraulic, electrical and electronic unit assemblies and systems.
- Make repair decisions based on economic factors.

2. Automotive Mechanical and Electrical Systems
On successful completion of this module the learner will be able to
- Explain and apply occupational health and safety in automotive settings.
- Solve problems using electrical quantities of voltage, electrical current, electrical resistance and power.
- Execute practical use of core automotive diagnostic test equipment.
- Diagnose electrical and electronic vehicle sub-system concerns, using vehicular network system live data transmission and diagnostic trouble codes.
- Explain the role of electricity in modern motor vehicles as it relates to engine, chassis, safety, and accessory systems.

AWARD
Special Purpose Award (10 ECTS credits at Level 7 on the National Framework of Qualifications).

AWARDING BODY
Cork Institute of Technology

ENGINE MANAGEMENT DIAGNOSTICS

(LEVEL 7)
COURSE CODE **CR_ECRXX_7**

COURSE FEE
€480 (incl. exam fee)

ENQUIRIES
Noel O'Halloran
T: 021 432 6711
E: noel.ohalloran@cit.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRECRXX7**

DURATION & DELIVERY
One night per week for one semester.

ADMISSION REQUIREMENTS
Qualified automotive mechanic or technician.

CONTENT
The course will review recent advances in automotive electronics and controls and the use of modern diagnostic and fault-finding equipment. The course will feature practical activities including diagnostic procedures on electrical circuits, sensors, actuators, displays, ignition/injection systems and engine management control systems.

AWARD
Single Module Certification (5 ECTS credits at Level 7 on the National Framework of Qualifications).

SCHOOL OF MECHANICAL, ELECTRICAL & PROCESS ENGINEERING

DEPARTMENT OF PROCESS, ENERGY & TRANSPORT ENGINEERING

HEAD OF DEPARTMENT

Dr Michael J O'Mahony
T: 021 433 5943
E: michael.jomahony@cit.ie

DEPARTMENT SECRETARY

Elaine McCarthy
Location: Room A283L
T: 021 433 5150
E: elaine.mccarthy@cit.ie

COURSES

- MEng in Chemical & Biopharmaceutical Engineering (Level 9)
- Certificate in Biopharmaceutical Processing (Level 7)
- Certificate in Biopharmaceutical Supply Chain Management (Level 8)
- Certificate in Validation Science
- Bachelor of Science in Good Manufacturing Practice & Technology (Level 7)

SHORT COURSES – SPECIAL PURPOSE AWARDS

- Science of Biotechnological Manufacturing Operations (Level 6)
- Cleanroom Manufacturing Practices (Level 6)
- Brewing & Distilling Operations (Level 6)
- Motor Dealer Organisation (Level 6)

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation and timetable arrangements will be sent to all applicants via email update.

MASTER OF ENGINEERING IN CHEMICAL & BIOPHARMACEUTICAL ENGINEERING

(LEVEL 9)
COURSE CODE **CR_ECHBI_9**

COURSE FEE
€7,000

ENQUIRIES
Dr Roisin Foley
T: 021 433 5150
E: roisin.foley@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRECHBI9**

This is a 90 credit Level 9 taught programme comprising eight mandatory modules, two free choice 5 credit module and two project modules (totalling 15 credits).

AIM
This programme aims to develop advanced analytical, design and research skills in Chemical Engineering with an industrial focus. Postgraduate students will undertake the final research element of this Masters programme in a host company or with their current employer. This will provide the researcher with an insight into the commercial aspects of engineering research and innovation and the opportunity to contribute to the development of the latest products and techniques.

Graduates of the programme will be well equipped to respond to the needs of the high technology industries particularly those with a focus on Research & Development, and product or process innovation.

ADMISSION REQUIREMENTS
Applicants must have achieved a minimum of Second Class Honours in a Level 8 BEng (Honours) in Chemical and Biopharmaceutical Engineering or equivalent.

CONTENT
All modules are worth 5 credits (ECTS) unless otherwise noted. The elective modules afford the learner the opportunity to broaden his/her skills set in other disciplines or to deepen his/her skills set in a selected area or focus. The elective modules offered in any given year are delivered subject to demand and resource availability.

Stage 1/Semester 1
Emerging Technologies
Engineering Research Skills
Environment, Health & Safety
Lean Sigma – Advanced Stats
Industrial Heat and Power
Elective
Sustainability in Engineering
Strategic Business Management

Stage 1/Semester 2
Computational Fluid Dynamics
Process Technology Transfer
Industrial Control Systems
Research Project Preparation (10 ECTS)
Elective
Engineering Project Management
Environmental Management
Managing Innovation

Stage 2/Semester 1
Project Realisation (30 ECTS)

DURATION
It is envisaged that students should complete the programme over 3 years on a part-time basis.

AWARD
Master of Engineering in Chemical & Biopharmaceutical Engineering (Level 9 on the National Framework of Qualifications).

CERTIFICATE IN BIOPHARMACEUTICAL PROCESSING

(LEVEL 7)
COURSE CODE **CR_EBIPR_7**

COURSE FEE
€1,650

ENQUIRIES
Elaine McCarthy
T: 021 433 5150
E: elaine.mccarthy@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREBIPR7**

DELIVERY
Practicals are delivered both at CIT and at the National Institute for Bioprocessing Research & Training (NIBRT) in Dublin. One module per semester, 6.30pm – 9.30pm, one evening per week. The programme is delivered in one year.

AIM
This Special Purpose Award is designed to meet the education and training needs of scientists and engineers, to equip them with the knowledge and skills to operate effectively in the biopharmaceutical industry.

On successful completion of the **Biopharmaceutical Upstream Processing** module you will be able to:
- Evaluate the significance of biotechnology as a method for the production of pharmaceutically active substances.
- Examine the key aspects of bioreactor design and contrast the various types of reactors including application, operation and limitations.
- Evaluate options for media design, control and feeding regimes of cell culture systems.
- Compare and contrast the key aspects of mammalian and microbial cell culture systems and their ability to express biopharmaceutical products.
- Conduct, write and critically evaluate biopharmaceutical upstream based practicals.

On successful completion of the B**iopharmaceutical Downstream Processing** module you will be able to:
- Explain the properties of proteins that are exploited in their separation and purification.
- Elaborate on the theoretical principles of a range of capture, concentration and purification unit operations, including any limitations in their use.
- Justify the key quality/purity requirements for Biopharmaceuticals products.
- Evaluate the issues associated with the scale up of downstream unit operations and apply appropriate problem solving approaches.
- Conduct and critically report on a range of practical experiments on downstream processing unit operations.

ADMISSION REQUIREMENTS
Candidates are required to have a Higher Certificate Level 6 in Engineering or Science.

COURSE CONTENT
To commence September 2018
Biopharmaceutical Upstream (Elective)

To commence February 2019
Biopharmaceutical Downstream Processing (Elective)

Note: The running of individual modules will be dependent on a sufficient number of students enrolling on the course.

CERTIFICATE IN BIOPHARMACEUTICAL SUPPLY CHAIN MANAGEMENT

(LEVEL 8)
COURSE CODE **CR_EBSCM_8**

COURSE FEE
See page 8 for Springboard+ eligibility criteria

ENQUIRIES
Dr Jane O'Keeffe
E: jane.okeeffe@cit.ie

SPRINGBOARD+
FUNDING OPTION AVAILABLE
SEE PAGE 8 FOR ELIGIBILITY

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.SPRINGBOARDCOURSES.IE/DETAILS/6033**

ADMISSION REQUIREMENTS

Applicants must have achieved a minimum of a Level 7 Bachelor degree in Supply Chain Management, or equivalent. (Examples of equivalence: a degree holder in business or engineering disciplines with substantial experience in logistics/supply chain management in the Biopharmaceutical and Pharmaceutical sector).

Suitably qualified applicants who have been out of the work environment for a number of years due to childcare or other caring obligations and have a previous history of employment but may require up-skilling, re-skilling or cross-skilling to transition back to the workforce are most welcome.

This Special Purpose Award in Supply Chain Management is designed to broaden and deepen the knowledge and skill base of graduates of a Level 7 degree in Supply Chain Management or Business and Engineering disciplines who already have experience of Logistics and Supply Chain Management. Supply Chain graduates have shown particular interest in enhancing their knowledge of issues such as the strategic management of global logistics and supply chain management.

This one-year programme is an industrially focused Level 8 programme where students gain valuable knowledge and skills in key subject area, which are pertinent to working in highly regulated and automated manufacturing and distribution environments such as GMP, QA, QC, Lean Manufacturing, Operations Management, Lean Supply Chains. Integral elements of this one-year Springboard programme are the blended delivery involving online delivery of two modules, continuing professional development (CPD), and a two-day training course.

CERTIFICATE IN VALIDATION SCIENCE

COURSE FEE
See page 8 for Springboard+ eligibility criteria

ENQUIRIES
Ann Toebes
T: 021433 5341
E: ann.toebes@cit.ie

SPRINGBOARD+
FUNDING OPTION AVAILABLE
SEE PAGE 8 FOR ELIGIBILITY

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.SPRINGBOARDCOURSES.IE/DETAILS/6033**

ADMISSION REQUIREMENTS
All qualified candidates are required to have a minimum of a Level 6 qualification (120 credits), or equivalent, in an engineering or science discipline. Candidates may also be interviewed for positions on the programme.

This Special Purpose Award in Validation Science provides an accredited level 7 qualification in Validation Science over one year for individuals who are seeking to up-skill or cross-skill in order to gain suitable employment in sectors such as biopharmaceutical, pharmaceutical and medical device industries.

This Special Purpose Award in Validation Science has been developed in response to the requests from the industrial participants in the South Western Skills Forum.

This programme targets employment roles in production/ manufacturing, quality assurance, regulatory affairs, commissioning, qualification, validation and operation roles within pharmaceutical/biotechnology/medical device manufacturing companies.

BACHELOR OF SCIENCE IN GOOD MANUFACTURING PRACTICE & TECHNOLOGY

(LEVEL 7)
COURSE CODE **CR_SGMPE_7**

COURSE FEE
€500 per module

ENQUIRIES
Elaine McCarthy
T: 021 433 5150
E: elaine.mccarthy@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRSGMPE7Y1**

DELIVERY
One module per night from 6.30pm – 9.30pm

ADMISSION REQUIREMENTS
Candidates are required to have a Higher Certificate or higher in an engineering or science discipline. It is required that all qualifying candidates have completed modules in basic chemistry and biology and have a knowledge of GMP, to undertake the complete programme.

CONTENT
To Commence September 2018
Technology Transfer (Mandatory)
Chemical Applications (Mandatory
Biopharmaceutical Upstream (Elective)
Free Choice Elective

To commence February 2019
Validation Science (Mandatory)
Maintenance and Utilities (Mandatory)
Biopharmaceutical Downstream (Elective)
Biomedical Device Manufacture (Elective)
Free Choice Elective

Project (Mandatory)*

A nationally accredited degree designed to meet the education and training needs of supervisors and higher technicians in the areas of Production, Quality Assurance and Validation in the Pharmaceutical, Biopharmaceutical, Chemical and Medical Device Industries. The programme comprises of 11 modules and a Project. To complete the programme, each student must take the 7 mandatory modules and 3 elective modules, as well as the project. A maximum of one free choice elective may be chosen.

The project is undertaken towards the end of the degree programme, when the student has successfully completed at least seven of the modules. The programme can be taken over 2 years or spread out over 3 or more years.

There is a considerable element of continuous assessment. Laboratory experiments are included in appropriate modules.

INDICATIVE CONTENT
Validation Science
Manufacturing Operations
Chemical Applications
Technology Transfer
Maintenance, Utilities and Facilities
People Management
Process Improvement
Biopharmaceutical Upstream
Biopharmaceutical Downstream
Energy Management
Formulation
Food Processing Technology
Biomedical Manufacture
Project

Note: The running of individual modules will be dependent on a sufficient number of students enrolling on the course.

The student acquires credits until 60 credits have been accumulated. Each module contributes 5 credits except for the Project (10 credits) and Biomedical Device Manufacture (10 credits).

Advanced Entry details to this programme overleaf

ADVANCED ENTRY TO THE BSC IN GOOD MANUFACTURING PRACTICE & TECHNOLOGY

The entry requirements for the BSc in GMP and Technology at Cork Institute of Technology are the Higher Certificate in Science in GMP & Technology or equivalent.

A combination of the following three requirements will be accepted by the Institute as the equivalent of the Higher Certificate in Science in GMP & Technology for advanced entry to the BSc in GMP & Technology

1. Leaving Certificate, 5 subjects at Grade D at ordinary level, including English or Irish, and Maths.

2. 5 years or more relevant work experience in the pharmaceutical, biopharmaceutical, medical device or food industry. To prove the relevance of their application the candidate will need to show that they are familiar with the topics covered in the following modules of the Higher Certificate:
   a. MANU6011 Calibration Science
   b. STAT6008 Lean Manufacturing
   c. MANU6013 Manufacturing Technology
   d. BIOM6003 Cleanroom Management
   e. MGMT6021 GMP1/Quality Assurance
   f. INFO6017 Information Technology
   g. BIOM6004 Contamination Control
   h. MATH6000 Essential Maths Skills

DETAILS OF THESE MODULES CAN BE FOUND ON THE CIT WEBSITE: WWW.CIT.IE/COURSE/CRSGMPE7Y1

3. The following modules of the Higher Cert in Science in GMP and Technology or their equivalent:
   CHEM6002 Chemical Principles
   BIOT6003 Introduction to Industrial Biotechnology

These modules will be offered at night this academic year (Sept 2018 to June 2019) in CIT Bishopstown Campus.

Note: The running of individual modules will be dependent on a sufficient number of students enrolling on the course. The module may be withdrawn if this requirement is not fulfilled.

SPECIAL PURPOSE AWARD CERTIFICATE COURSES (LEVEL 6)

The Special Purpose Award certificate courses (Level 6) are industry relevant short courses and includes a Certificate in Cleanroom Manufacturing Practices and a Certificate in Biotechnological Manufacturing Operations. These special purpose award certificates encompass one module per semester (13 weeks) for an evening a week over 1 academic year and starts in September and January.

€450 per 5 credit module, total cost of Special Purpose Award Certificate is €900 (2 modules).

One evening a week per module over 13 weeks in semester 1 and 2 (one academic year).

SCIENCE OF BIOTECHNOLOGICAL MANUFACTURING OPERATIONS

(LEVEL 6)
COURSE CODE **CR_ESBMO_6**

COURSE FEE
€450 per 5 credit module, total cost of Special Purpose Award certificate is €900 (2 modules)

ENQUIRIES
Elaine McCarthy
T: 021 433 5150
E: elaine.mccarthy@cit.ie

SPRINGBOARD+
FUNDING OPTION AVAILABLE
SEE PAGE 8 FOR ELIGIBILITY

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRESBMO6**

DELIVERY
One module per semester, 6.00pm – 9.00pm, one evening per week. The programme is delivered in one year.

AIM
This award aims to introduce the participants to basic concepts of chemistry such as structures, bonding and their relationship to chemical properties. The industrial biotechnology content includes environmental biotechnology, biopharmaceutical engineering, bioreactor design and bioprocess design considerations. The programme is designed for existing employees or potential new recruits in the Biopharmaceutical, Pharmaceutical, and Medical Devices, and Food industries who would like an accredited qualification and includes:
Certificate in Biotechnological Manufacturing Operations: Chemical Principles (semester 1) and Introduction to Industrial Biotech (semester 2).

ADMISSION REQUIREMENTS
Applications are welcome from persons over 23 years of age by 1 January of year of entry.

Applicants under the age of 23 must have obtained at least 5 passes at Ordinary Grade D3 in the Irish Leaving Certificate Examinations to include English and Mathematics. Alternative Mathematics does not qualify applicants on this basis. Other examinations/qualifications taken such as GCE/GCSE, trade/craft exams are considered.

FURTHER STUDIES
Credits and Certificates are awarded for each module passed, allowing participants to gain credits at level 6. They may be used for advanced entry to the BSc in GMP and Technology, see http://www.cit.ie/course/CRSGMPE7Y1

CERTIFICATE IN CLEANROOM MANUFACTURING PRACTICES

(LEVEL 6)
COURSE CODE **CR_ECLMP_6**

COURSE FEE
€1,100 (€550 per 5 credit module x 2 modules)

ENQUIRIES
Elaine McCarthy
T: 021 433 5150
E: elaine.mccarthy@cit.ie

SPRINGBOARD+
FUNDING OPTION AVAILABLE
SEE PAGE 8 FOR ELIGIBILITY

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRECLMP6**

DELIVERY
The course comprises of two modules. One module per week per semester (13 weeks) 6.30pm to 9.30pm. The module Contamination Control commences in September 2018 followed by Cleanroom Management in February 2019.

AIM
This is an industrial relevant course specifically designed for existing employees to upskill and build on their professional experience as well as for potential new recruits in the Biopharmaceutical, Pharmaceutical, Medical Devices and Food industries who would like an accredited qualification. This course aims to develop skills, knowledge and confidence to work within these highly regulated manufacturing environments.

Contamination Control module's key topics include
- Understand the importance of contamination control
- Sources, detection and identification of contamination within the manufacturing environment
- Contamination control strategies used and cleaning validation
- Effective sterilisation methods and the emergence of single-use-technology
- Facility design
- Practical skills using microbiological, sterilisation and detection methods
- Completion of GMP check sheets

On successful completion of the module, **Cleanroom Management,** you will gain an understanding of the following
- Identify and measure sources of cleanroom contamination
- Selection process and use of cleaning agents
- Classification of cleanrooms according to ISO14644
- Cleanroom design and construction
- Cleanroom garbing and behaviour
- Cleanroom, control and monitoring and validation
- Practical skills in environmental monitoring, interpretation of psychrometric charts, gowning practices

ADMISSION REQUIREMENTS
Candidates under the age of 23 must have obtained at least 5 passes at Ordinary Level (minimum grade D3) in the Leaving Certificate Examinations to include English and Mathematics. Alternative Mathematics does not qualify applicants on this basis.

Applications are welcome from mature students over 23 years of age by 1st January of year of entry. Leaving Certificate is desirable but not essential. Relevant work experience; skills gained through experiential learning; and other qualifications, will be considered when assessing applications. Eligible candidates may be interviewed.

FURTHER STUDIES
Students may seek to gain another industrial relevant short course certificate in CIT's Science of Biotechnological Manufacturing Operations.

Completing this Special Purpose Award together with relevant industrial experience, students may have the opportunity to progress towards an Advanced Entry of CIT's Bachelor of Science in Good Manufacturing Practices and Technologies).

Note: The running of individual modules will be dependent on a sufficient number of students enrolling on the course.

CERTIFICATE IN BREWING & DISTILLING OPERATIONS

ENQUIRIES

Ian O'Sullivan
T: 021 433 5888
E: brewing.distilling@cit.ie

COURSE CODE **CR_EBRD0_7**

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREBRD07**

This programme provides candidates with the scientific and engineering background required to work in craft and traditional breweries and distilleries. The modules on the programme are closely aligned with the Institute of Brewing and Distilling (IBD) syllabi for the Diploma in Brewing and Diploma in Distilling examinations.

DELIVERY

One module per semester, 6.00pm – 9.00pm, one evening per week. The programme is delivered over two years.

Winter 2018	CHEP7014 Raw Materials & Wort
	CHEP7016 Fluids & Heat
Spring 2019	CHEP7017 Spirit Production

ADMISSION REQUIREMENTS

Candidates are expected to have at least a Level 6 (NQF) qualification in Science or Engineering. Applications from students who have passed the IBD General Certificate in Brewing or the IBD General Certificate in Distilling and/or who have relevant industrial experience will be considered on an individual basis.

- The IBD diploma examinations are recognised as a world standard in Brewing and Distilling.
- It is expected that students on the programme would also take the IBD examinations
- CIT is the only higher education institute in Munster to provide such training
- Partners in programme design include representatives of the Irish Branch of the Institute of Brewing and Distilling, accredited tutors of the Institute of Brewing and Distilling, representatives of Taste 4 Success Skillnet, and senior engineers and technologists from local industry.
- Candidates who complete all five modules will be awarded a CIT Certificate in Brewing & Distilling.
- Candidates may choose to take any number of modules on a stand-alone basis and will receive individual certification for each module completed.
- All modules are at Level 7 on the National Framework of Qualifications (NFQ)
- Lectures will be supplemented by industry relevant laboratory practicals, guest lectures, and visits to breweries, distilleries and maltings.
- Candidates may join the programme at the beginning of any semester and may take modules in any order.

COURSE CONTENT

Term	CIT Module	Equivalent IBD Module
Winter 2019	CHEP7014 Raw Materials & Wort CHEP7016 Fluids & Heat	Brewing AND Distilling Module 1 Brewing AND Distilling Module 3 Part 1
Spring 2020	CHEP7015 Yeast and Beer CHEP7018 Distillation Plant Design	Brewing Module 2 Brewing AND Distilling Module 3 Part 2

Continued Overleaf

FEE

Route 1: Supported by Taste4Success Skillnet
Applicants who are job seekers or whose companies are eligible for support via the Taste4Success Skillnet may be eligible for a fee waiver or fee reduction and should take the following steps

Step 1: contact Breda Barber at info@taste4success.ie to determine if you are eligible for a fee waiver or fee reduction.

Step 2: If you are eligible for either a waiver or reduction, please visit www.cit.ie/course/CREBRDO7 and click on the Apply Online button to apply for a place on the programme.

Step 3: Tick the 'My employer will pay in part/full for my enrolment on this course' button on the application page (job seekers supported by Taste4Success should tick this box as well).

Step 4: Ensure that you input the appropriate waiver or discount code (as supplied by Taste4Success) into the 'Additional Information' box on the application page.

Route 2: Self-Funded
Applicants who are self-funded will be required to pay a programme acceptance fee of €500 online if a place on the programme is offered. This programme acceptance fee is offset against the cost of the first module. Subsequent modules (€500 per module) are paid for at the beginning of each semester. Click on the Apply Online button at www.cit.ie/course/CREBRDO7 to apply if you are a self-funded applicant.

MOTOR DEALER ORGANISATION

(LEVEL 6)
COURSE CODE **CR_EMDOR_6**

COURSE FEE
€570 (inc. exam fee)

ENQUIRIES
Pat O'Shaughnessy
T: 021 433 5944
E: pat.oshaughnessy@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CREMDOR6**

DELIVERY
One night per week for one academic year.

ADMISSION REQUIREMENTS
Leaving Certificate or relevant craft qualification.

COURSE CONTENT
This module provides the student with a comprehensive understanding of the the administration, organisation and management activities carried out by the staff in the service, parts & warranty departments in the motor industry.

1. AUTO7001 - Motor Dealer Aftersales Dept.
On successful completion of this module you will be able to
- Discuss the administration and organisation of the various departments in a motor dealership and the reason for Block Exemption Regulations.
- Detail accident procedures in relation to crash repairs and prepare estimates for these according to approved repairer scheme regulations.
- Explain and identify good and poor premises layout and discuss the relevant health and safety aspects.
- Describe workshop loading, workshop progress workshop productivity and key performance indicators (KPI)
- Explain the main duties of the aftersales staff in the automotive business, describe the different types of bonus schemes, responsibilities of personnel and customer methods (CRM)

2. Franchise Dealer Operations MECH 7020
On successful completion of this module you will be able to
This module is designed to provide the student with a comprehensive understanding of the functions and practices of Franchised Dealer Operations within the Motor Industry.

On successful completion of this module you will be able to:
- Discuss the rules associated with data protection and their relevance to departmental activities within the Motor Trade.
- Explain the obligations placed on the operators of vehicle franchised networks by Block Exemption regulations.
- Describe the obligations placed on the franchise dealer management and the functions of the management team.
- Discuss the various types of insurance cover required within the Motor Industry.
- Outline the current legislation and responsibilities for the control and handling of hazardous material and waste management.

AWARD
Special Purpose Award (10 ECTS credits at Level 6 on the National Framework of Qualifications).

AWARDING BODY
Cork Institute of Technology

SCHOOL OF SCIENCE & INFORMATICS

HEAD OF SCHOOL

PROFESSOR HUGH MCGLYNN

Information evening for continuing education courses for the School of Science & Informatics will take place at the CIT Bishopstown Campus on Wednesday 5th September 2018, 6.00pm to 8.00pm. Staff will be in attendance to offer career guidance and assistance.

The School consists of the following Departments

- Physical Sciences
- Biological Sciences
- Mathematics
- Computer Science

WWW.CIT.IE

SCHOOL OF SCIENCE & INFORMATICS

DEPARTMENT OF PHYSICAL SCIENCES

HEAD OF DEPARTMENT

Dr Donagh O'Mahony
T: 021 433 5595
E: donagh.omahony@cit.ie

DEPARTMENT SECRETARY

Mary Phelan
Location: Office No: C229A
T: 021 433 5870
E: mary.phelan@cit.ie

COURSES

- Higher Certificate in Science in Industrial Measurement & Control (Level 6)
- Bachelor of Science in Applied Physics & Instrumentation (Level 7)
- Bachelor of Science (Honours) in Instrument Engineering (Level 8)
- Certificate in Advanced Industrial Automation (Level 8)
- Certificate in Industrial Measurement and Calibration (Level 6)
- Certificate in Quality Assurance (Level 6)
- Diploma in Quality Management Part 1 (Level 7)
- Diploma in Quality Management Part 2 (Level 7)

- Short Courses for Industry
  Short courses in instrumentation, measurement and control, optics, sensors and cognate areas can be offered from the modules within our validated programmes. Costs, location of courses and scheduling are negotiable.

Enquiries
Mary Phelan E: mary.phelan@cit.ie T: 021 433 5870

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation and timetable arrangements will be sent to all applicants via email update.

HTTP://PHYSICALSCIENCES.CIT.IE

HIGHER CERTIFICATE IN SCIENCE IN INDUSTRIAL MEASUREMENT & CONTROL

(LEVEL 6)
COURSE CODE **CR_SIMCT_6**

COURSE FEE
€250 per 5 credit module (inc. exam fee)

ENQUIRIES
Conor O'Farrell
T: 021 433 5592
E: conor.ofarrell@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRSIMCT6**

ACCS MODE
Year 1, Year 2 and Year 3 will be offered 3 evenings a week/ semester subject to student numbers.

Note: This level 6 programme will be delivered over 3 academic years. All students holding a cognate craft qualification (Electrical, Instrumentation and Electrical & Instrumentation crafts) will gain advanced entry against Year 1 and therefore must only complete Year 2 and 3. All other students must complete Year 1, Year 2 and Year 3. Advanced entry may be gained against certain Year 1 modules.

AIM
This programme of 120 credits is designed to enable skilled craftspersons working in industry to upgrade their qualifications and skills. Applications are also invited from candidates who wish to take specific modules from the programme.

ADMISSION REQUIREMENTS
1. Leaving Certificate with grade D3 at Ordinary or Higher level in five subjects including Mathematics, and English or Irish;
2. Mature and other special category applicants will be admitted according to CIT regulations for part-time enrolment;
3. Applicants holding a relevant FETAC (now QQI) Advanced Certificate, National Craft Certificate or equivalent, other relevant Level 6 (or higher) qualifications or having relevant industrial experience will be eligible for exemptions from certain modules.

CONTENT
All Applicants who do not hold an Electrical, Instrument or Electrical instrumentation craft certificate must complete SIMCT Stage 1 before entering SIMCT stage 2.

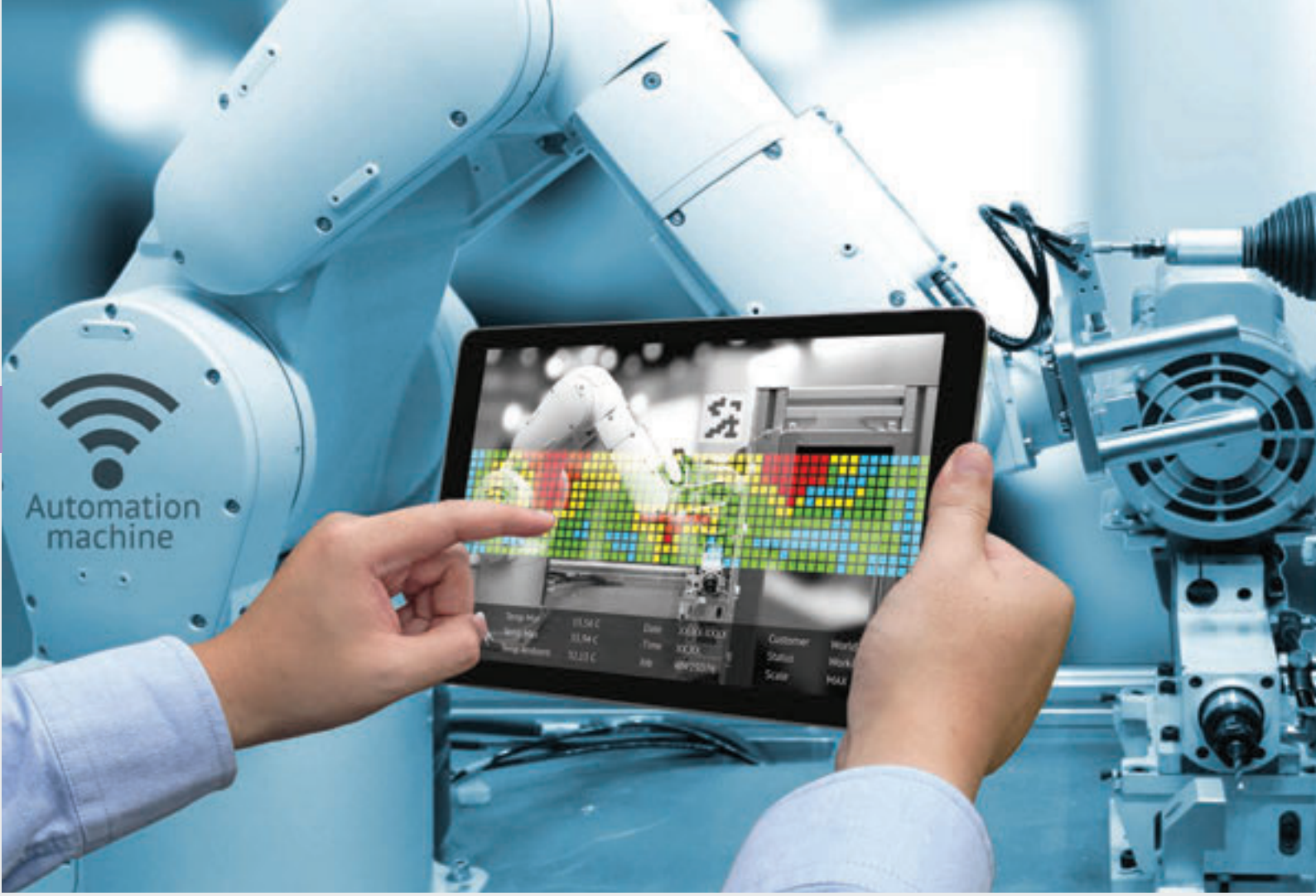
SIMCT STAGE 1 TIMETABLE
Year 1

	Semester 1	Semester 2
Mon	Maths for Craftpersons	Signal Measurement
Tues	Introduction to Physics Instrumentation	Signal Conditioning
Wed	Technology	Fundamental Physics
Thurs	Overflow Lab sessions	Overflow Lab sessions

All Applicants who hold an Electrical, Instrument or Electrical instrumentation craft certificate enter the programme at SIMCT Stage 2.

SIMCT STAGE 2 TIMETABLE
Year 2

	Semester 1	Semester 2
Mon	Industrial Automation	Instrument Calibration
Tues	Instrument Measurement	Process Control
Wed	Maths for Physical Sciences	Practical Computer Technology
Thurs	Overflow Lab Sessions	Overflow Lab Sessions



SIMCT STAGE 2 TIMETABLE Year 3		
	Semester 1	**Semester 2**
Mon	Intro to Stats for Physical Sciences	Maths for Science 2.1
Tues	Applications of Automation	Graphics & Engineering Design
Wed	Introduction to Utilities	Process Instrumentation
Thurs	Overflow Lab Sessions	Overflow Lab Sessions

Note: Exemptions from certain modules on this programme are automatically granted to holders of FETAC (now QQI) Advanced Certificates or equivalent, in a relevant craft and are not listed above. Other applicants may have to take additional modules.

AWARD

Single module certification within the Higher Certificate in Science in Industrial Measurement & Control.

The major award of the Higher Certificate in Science in Industrial Measurement & Control will be received by students who successfully complete the course programme.

FURTHER STUDIES AT CIT

Graduates of the Higher Certificate in Science in Industrial Measurement & Control may proceed onto the Level 7 Bachelor of Science in Applied Physics and Instrumentation, subject to availability of places.

BACHELOR OF SCIENCE IN APPLIED PHYSICS & INSTRUMENTATION

(LEVEL 7)
COURSE CODE **CR_SPHYS_7**

COURSE FEE
€220 per 5 credit module (inc. exam fee)

ENQUIRIES
Richard Peard
T: 021 433 5964
E: richard.peard@ cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRSPHYS7**

ACCS MODE
Cycle A: Modules will be offered on three evenings per week.

Note: This Level 7 programme is delivered over two academic years. In the academic year 2018/2019 Cycle A modules are offered. Each year consists of two semesters: the first semester runs from September to January; and the second semester runs from February to June.

AIM
This programme of 60 credits provides advanced specialist education in measurement and control technology that broadens the perspective of the student and helps to develop design capabilities in instrumentation. The course also helps to consolidate the basic foundation in the discipline for students wishing to pursue the Bachelor of Science (Honours) in Instrument Engineering (please see next page for information on this title change).

ADMISSION REQUIREMENTS
1. Higher Certificate in Science in Applied Physics and Instrumentation or the Higher Certificate in Science in Industrial Measurement & Control;
2. Holders of other relevant Level 6 qualifications, including City & Guilds Course No. 275, will also be considered on an individual case basis;
3. Applicants holding relevant Level 7 (or higher) qualifications or having relevant industrial experience may be eligible for exemptions from certain modules.

CONTENT
- **Cycle A Modules**
  Mathematics for Science 3.1
  Thermo and Fluid Dynamics
  Process Control & Electrical
  Industrial Automation & SCADA
  Quality Systems
- **Cycle B Modules**
  Programming for Measurement
  Water Quality Instrumentation
  Industrial Communications & Networks
  Smart Sensors
  Project

AWARD
BSc Applied Physics and Instrumentation (Single module certification is possible)

VALIDATING BODY
Quality and Qualifications Ireland (QQI).

This degree is recognised by the Institute of Physics. Graduates of recognised degrees qualify for Associate Membership upon graduation and may apply for full Membership after appropriate work experience.

FURTHER STUDIES AT CIT
To progress from the BSc Applied Physics and Instrumentation to the BSc (Honours) Applied Physics & Instrumentation, candidates must achieve a pass with at least an average mark of 50%. Progression is subject to the availability of places.

BACHELOR OF SCIENCE (HONOURS) IN INSTRUMENT ENGINEERING

(LEVEL 8)
COURSE CODE **CR_SINEN_8**

COURSE FEE
€300 per 5 credit module (inc. exam fee)

ENQUIRIES
Richard Peard
T: 021 433 5964
E: richard.peard@ cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRSINEN8**

ACCS MODE
Cycle A: Modules will be offered on three evenings per week.

Note: This Level 8 course is delivered over two academic years. In the academic year 2018/2019 Cycle A modules are offered. Each year consists of two semesters: the first semester runs from September to January; and the second semester runs from February to June.

AIM
This programme of 60 credits aims to meet the requirements of industry for professionally qualified personnel in instrumentation and to satisfy the demands of students for a qualification in Instrument Engineering to the highest undergraduate level.

ADMISSION REQUIREMENTS
1. Bachelor of Science in Applied Physics and Instrumentation with a minimum average mark of 50%;
2. Holders of other Level 7 qualifications in a relevant Science or Engineering discipline with a minimum average mark of 50%;
3. Applicants holding relevant Level 8 qualifications or having relevant industrial experience may be eligible for exemptions from certain modules.

CONTENT
- **Cycle A Modules**
  Engineering Project Management
  Networking and Computer Security
  Process Analytical Technologies
  System Modeling and Interfacing
  Project (Research Phase or Implementation phase as appropriate) (10 credits

- **Cycle B Modules**
  Advanced Programming for Measurement
  Advanced Signal Processing
  Advanced Industrial Automation
  Advanced Process Control
  Statistics and Quality Methods
  Project (Research Phase or Implementation phase as appropriate) (10 credits)

AWARD
Bachelor of Science (Honours) in Instrument Engineering (Single module certification is possible).

VALIDATING BODY
Quality and Qualifications Ireland (QQI).

This degree is recognised by the Institute of Physics. Graduates of recognised degrees qualify for Associate Membership upon graduation and may apply for full Membership after appropriate work experience.

FURTHER STUDIES AT CIT
Graduates are eligible to apply for a postgraduate degree at Masters (MSc) or Doctoral (PhD) levels.

CERTIFICATE IN ADVANCED INDUSTRIAL AUTOMATION

(LEVEL 8)
COURSE CODE **CR_SINAU_8**

COURSE FEE
Total: €1,560
Students may also pay per module

ENQUIRIES
Natalia Rebrova
E: natalia.rebrova@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRSINAU8**

AIM
The aim of this programme is to provide learners with the advanced skills and knowledge necessary to become specialists in the application of state-of-the-art automation techniques across a range of industries. This is a specialised hands-on course that deals with essential topics for today's automation engineers. The module has a heavy emphasis on practical programming of a range of automated processes using a range of software tools such as DeltaV and SCADA.

DURATION & DELIVERY
The course delivery will be two evenings per week, along with a significant individual project in advanced industrial automation.

CONTENT
Modules
Introduction to Industrial Automation
Industrial Automation & SCADA
Advanced Industrial Automation
Introduction to Industrial Automation Project
Advanced Industrial Automation Project (10 credit module)

ADMISSION REQUIREMENTS
Ordinary degree or equivalent in Science/Technology/Engineering. Equivalent recognition may be given through the Recognition of Prior Learning (RPL) process on an individual case-by-case basis to candidates who have not achieved this academic standard but who can demonstrate significant relevant professional experience. For more details, visit www.cit.ie/rpl.

AWARD
Certificate in Advanced Industrial Automation – Special Purpose Award (Level 8 on the National Framework of Qualification).

CERTIFICATE IN INDUSTRIAL MEASUREMENT AND CALIBRATION

COURSE FEE
Please email fees@cit.ie

ENQUIRIES
Conor O'Farrell
T: 021 433 5592
E: conor.ofarrell@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE**

AIM
The goal of this programme is to provide learners with training in the measurement, calibration and quality assurance techniques needed by employers in advanced manufacturing industries. The modules provided in this course have been identified as key skills by the precision and high quality industries based in the region. The majority of the modules have a significant laboratory component where the learner obtains hand-on experience with hardware and software commonly used by automated industry.

DURATION
The modules will be delivered on up to three nights per week, with a substantial portion of the second semester in the form of an extended Work Placement.

CONTENT
Modules

PHYS6008	Instrument Measurement
MATH6000	Essential Mathematical Skills
ENVI6002	Environmental Instrumentation
PHYS6031	Process Instrumentation II
CHEM6008	Quality and Validation
PHYS7019	Work Placement (extended)

ADMISSION REQUIREMENTS
- Leaving Certificate with grade D3 at Ordinary or Higher level in five subjects including Mathematics, and English or Irish
- Mature and other special category applicants will be admitted according to CIT regulations for part-time enrolment

AWARD
Certificate in Industrial Measurement and Calibration – Special Purpose Award (Level 6 on the National Framework of Qualifications).

CERTIFICATE IN QUALITY ASSURANCE

SPECIAL PURPOSE AWARD (LEVEL 6)
COURSE CODE **CR_SQUAS_6**

COURSE FEE
€400 per module, i.e. €800 overall (inc. registration exam fee)

ENQUIRIES
Dr Mary Lehane
T: 021 433 5866
E: mary.lehane@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRSQUAS6**

DURATION & DELIVERY
Monday or Tuesday or Wednesday, 7pm – 10pm
(Usually Monday).

One evening per week for one academic year. Module 1 is delivered and examined during semester 1, and module 2 is then completed during semester 2.

The course consists of two modules, each worth 5 credits.

ADMISSION REQUIREMENTS
Applicants should normally have a technician level qualification, or work experience in the quality area together with an appropriate educational background. Other applicants will be considered on an individual basis.

This is designed as a first course in quality assurance and control. Graduates will have the ability to apply and maintain quality assurance/quality control systems in an industrial environment to support delivery of a quality product or service. The course emphasises everyday practical aspects concerning the use of basic quality techniques in industry, and will be useful both to those who require some basic methodology of quality, and those who hope to progress within the world of quality management.

CONTENT
- **Module 1: Fundamentals of Quality Assurance**
  The function of quality assurance in manufacturing and service
  The role of quality control
  Human aspects of quality
  Regulatory requirements
  Documentation for quality assurance
  Calibration concepts
- **Module 2: Introduction to Quality Management, Validation, and Statistical Quality Control**
  Quality costing methods
  Sampling inspection
  Design and use of quality control charts
  Understanding variability in processes
  Validation: theory, role, and application
  Managing quality assurance systems

AWARD
Certificate in Quality Assurance – Special Purpose Award (Level 6 on the National Framework of Qualifications).

AWARDING BODY
Cork Institute of Technology.

COMMENCEMENT DATE
Monday, 10th September 2018.

CLOSING DATE FOR APPLICATION
Monday, 10th September 2018.

DIPLOMA IN QUALITY MANAGEMENT

PART 1

COURSE CODE **CR_SQMAN_7_Y1**

COURSE FEE

€700 (payable to CIT). Exam fee: Currently €150 (payable to the external examining body EIQA)

ENQUIRIES

Dr Ambrose Furey
T: 021 433 5875
E: ambrose.furey@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRSQMAN7Y1**

DURATION & DELIVERY

Monday or Tuesday or Wednesday, 7pm – 10pm
(Usually Tuesday)

This course is not semesterised and runs for one evening per week for one academic year.

The course consists of one module, worth 10 credits.

ADMISSION REQUIREMENTS

Applicants are required to have the CIT Certificate in Quality Assurance Special Purpose Award or an equivalent qualification. Extensive experience in a wide variety of Quality Management, Quality Assurance and Statistical Techniques in lieu of formal qualifications may be taken into account when assessing suitability for entry onto the Diploma in Quality Management (Part 1). Each application will be considered on an individual basis.

As coursework on this programme involves a significant quantity of both oral and written reports, examinations, and presentations, applicants must be competent in spoken and written English.

CONTENT

- Setting up a Quality System
- The Elements of a Quality System
- Basic Management Theory
- Auditing
- Problem Solving and Quality Improvement
- Product and Service Quality
- Quality Costs
- Implementing TQM and Documentation Control

The format of this course is that typical of a management course i.e. it involves discussion and background reading; essay type answers are required in the written examination, and the course is partially examined by project work.

AWARD

Diploma in Quality Management – Part 1.

AWARDING BODY

Excellence Ireland Quality Association (EIQA).

COMMENCEMENT DATE

Tuesday, 11th September 2018.

CLOSING DATE FOR APPLICATION

Monday, 10th September 2018.

DIPLOMA IN QUALITY MANAGEMENT

PART 2

COURSE CODE **CR_SQMAN_7_Y2**

COURSE FEE

€800 (payable to CIT). Exam fee: Currently €150 (payable to the external examining body EIQA)

ENQUIRIES

Dr Ambrose Furey
T: 021 433 5875
E: ambrose.furey@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRSQMAN7Y2**

DURATION & DELIVERY

Monday or Tuesday or Wednesday, 7pm - 10pm
(Usually Wednesday)

This course is not semesterised and runs for one evening per week for one academic year.

The course consists of one module, worth 10 credits.

ADMISSION REQUIREMENTS

Applicants are required to have the Diploma in Quality Management – Part 1 (or the Certificate in Quality Management, which was the previous title of the course).

As coursework on this programme involves a significant quantity of both oral and written reports, examinations, and presentations, applicants must be competent in spoken and written English.

CONTENT

- Introduction to Total Quality
- Quality Management Philosophies
- Managing for Quality
- Review of Quality Standards
- Quality Awards
- Leadership
- Human Resource Development
- Teamwork
- Process Management
- Strategic Information Management
- Developments in Total Quality

The format of this course is typical of a management course involving participation, discussion and background reading. The project constitutes a very important part of the year's work and marks are awarded accordingly.

AWARD

Diploma in Quality Management – Part 2.

AWARDING BODY

Excellence Ireland Quality Association (EIQA).

COMMENCEMENT DATE

Wednesday, 12th September 2018.

CLOSING DATE FOR APPLICATION

Monday, 10th September 2018.

SCHOOL OF SCIENCE & INFORMATICS

DEPARTMENT OF MATHEMATICS

HEAD OF DEPARTMENT

Dr David Goulding

DEPARTMENT SECRETARY

Frances McAuliffe
Location Room: B294
T: 021 432 6187
E: mathematics@cit.ie

COURSE

- Higher Diploma in Science in Data Science & Analytics

The course offered is subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation, and timetable arrangements will be sent to all applicants via email update.

Enrolment
An Information Session will take place in Cork Institute of Technology, Bishopstown Campus on Wednesday 5th September 2018 from 6.00pm to 8.00pm.

HTTP://MATHEMATICS.CIT.IE

HIGHER DIPLOMA IN SCIENCE IN DATA SCIENCE & ANALYTICS

(LEVEL 8)
COURSE CODE **CR_SDAAN_8**

COURSE FEE

Total: €4,200. €350 per 5 credit module, and €700 for the 10 credit project module (inc exam fees)

SPRINGBOARD+
FUNDING OPTION AVAILABLE
SEE PAGE 8 FOR ELIGIBILITY

ENQUIRIES

Frances McAuliffe
T: 0214326187
E: mathematics@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRSDAAN8**

DURATION

2 Years Part-time.
September 2018 – depending on the start date of Semester 2 (subject to demand)

ADMISSION REQUIREMENTS

Applicants will already hold a Level 8 degree, and must be highly motivated and capable of independent learning. Preference will be given to applicants with a background in cognate and analytical disciplines, who would benefit from an opportunity to rapidly and successfully convert their qualifications to industry relevant ICT skills. All candidates with a Level 8 qualification or equivalent will be considered. Candidates with a Level 7 qualification and significant relevant experiential learning may be eligible through our recognition of prior learning processes. Please see www.cit.ie/rpl for further details.

AIM

CIT's Higher Diploma in Science in Data Science & Analytics (NFQ Level 8) has been designed to address the skills shortage in Data Science and Analytics, by equipping graduates with the scientific, technological, business and interpersonal skills necessary to operate professionally in this rapidly evolving interdisciplinary field.

The graduate of this programme will be of high academic and practical standards, in order to match the needs of the Irish and international IT industry, especially in the "Big Data" space. He/she will be able to ally the transferable skills obtained in his/her Level 8 degree to newly acquired knowledge, skills and competences in Statistics & Mathematics, Computer Science and Data Science, and their application to solving real-life problems. Potential job opportunities not only include that of data scientist/analyst, but also skilled staff who will be required to extract actionable insight from large amounts of raw data in order to enable better decision making within an organisation.

STRUCTURE

This is a 60 credit programme, in which three core strands: Statistics & Mathematics, Computer Science, and Data Science, are developed over two semesters, with an increasing specialisation to the "big data" context. There will be significant opportunity throughout to apply theoretical knowledge and develop problem solving skills through practical and laboratory sessions. The learner will also undertake a capstone project, which will be a key opportunity to demonstrate the ability to synthesise the learning acquired in the programme, and to apply it to the solution of an authentic problem in Data Science & Analytics.

The graduate will gain significant practical experience, in software packages and programming languages including R, Python, Excel, SQL, NoSQL, Tableau, Spark and Hadoop for example.

CONTENT

Mandatory
Intro to R for Data Science
Data Science and Analytics
Scientific Programming in Python
Applied Statistics and Probability
Data Management Systems
Mathematical Methods and Modelling
Regression Analysis
Distributed Data Management
Data Visualisation and Analytics
Data Science Analytics Project
Electives
Time Series & PCA
Machine Learning

AWARD

Higher Diploma in Science in Data Science & Analytics (Level 8 on the National Framework of Qualifications).

SCHOOL OF SCIENCE & INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE

HEAD OF DEPARTMENT

Tim Horgan

DEPARTMENT SECRETARY

Noreen Lucey
Location Room: B225L
T: 021 433 5160
E: cs@cit.ie
W: http://cs.cit.ie

COURSES

- Master of Science in Artificial Intelligence (Level 9)
- Master of Science in Cloud Computing (Level 9)
- Master of Science in Software Architecture & Design (Level 9)
- Master of Science in Information Security (Level 9)
- Master of Science in Information Design & Development (Level 9)
- Higher Certificate in Science in Software Development (Level 6)
- Bachelor of Science in Software Development (Level 7)
- Postgraduate Certificate in Information Design & Development (Level 9)
- Higher Diploma in Science in Cloud Computing [2 Years Part-time] (Level 8)

If you have any queries, please contact the Department Secretary, details above.

Each programme has its own unique web address from which you can apply online.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation and timetable arrangements will be sent to all applicants via email update.

HTTP://CS.CIT.IE

MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE

(LEVEL 9)
COURSE CODE **CR_KARTI_9**

COURSE FEE
€7,500 in total. Three instalment of €2,500 are possible

ENQUIRIES
Dr Donna O'Shea
T: 021 433 5116
E: cloud@cit.ie
W: http://cs.cit.ie/ai-online

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **HTTP://CS.CIT.IE/AI-ONLINE**

This programme is available part-time online and full-time on campus. In online mode, all classes are delivered over the Internet and all practical work is completed using CIT's cloud infrastructure.

Artificial intelligence (AI) is a field of computer science that enables computers and machines to perform tasks normally requiring human intelligence. Its many applications range from chess-playing robots and autonomous cars to speech, image, and language processing, robotic manufacturing, and surveillance systems. AI simulates human intelligence processes by combining large datasets, machine learning, and computational power with algorithms capable of solving problems.

In the 21st century, AI techniques have experienced a resurgence following concurrent advances in computer power, large amounts of data, and theoretical understanding. AI techniques have become an essential part of the technology industry, helping to solve many challenging problems in computer science.

This master's degree programme provides a technical deep-dive into the area of AI. The programme will produce AI graduates with a highly relevant skillset in AI topics. You'll learn how to use and develop intelligent computer systems that can learn from experience, recognise patterns in vast amounts of data and reason strategically in complex decision making situations. The programme places significant emphasis on student learning by doing. It adopts a practical, hands-on, approach to learning, where all modules are fully assessed using continuous assessment methods.

DURATION & DELIVERY
This is a two-year part-time programme taught over 24 months (4 semesters). The programme is delivered and accessed fully online using state of the art Cloud based technologies. Lectures are delivered online by night, streamed live over the Internet and recorded to facilitate easy playback to students. This offers great flexibility for students who can access lectures and labs anytime, anywhere on any device that has a web browser.

ADMISSION REQUIREMENTS
Entry to the MSc in Artificial Intelligence will require a minimum of a Level 8 honours degree in Computer Science, Engineering, Computing or an honours degree in a cognate discipline. As this is an expert level programme, it is essential for applicants to have a strong proficiency in mathematics, including statistics, and an advanced level of coding competency in a modern high-level computer programming language such as Python or Java. Applicants who do not meet the above criteria will be considered on a case by case basis. Please see the Recognition of Prior Learning (RPL) page or visit www.cit.ie/rpl for further details.

PROGRAMME AIM
The aim of this programme is to produce expert AI developers. Successful completion of the programme will equip these graduates with the desired skills and provide them with the following benefits:

- Ability to deal with technically complex problems
- Support in making strategically important decisions within their profession
- Gain a qualification that is in high demand in the market place
- Attain expertise to carry out AI research in academic and R&D environments
- Provide intelligent solutions to IT problems in companies and organisations
- Pursue doctoral studies within the domain of AI and Machine Learning (ML) in CIT

PROGRAMME STRUCTURE
The programme contains challenging and interesting modules delivered by lecturers who are experts in AI. Students will also be presented with opportunities to work on modern research case studies linked to the domain expertise of staff in the department. The programme places signifcant emphasis on student learning by doing. It adopts a practical, hands-on, approach to learning, where all modules are fully assessed using continuous assessment methods.

There are no formal end of semester written examinations and this ensures that students will learn by doing from the first module to the last. This 60 credit programme is delivered over two 30 credit semesters. Each semester has a number of mandatory modules and a choice of electives (all electives may not be offered).

MASTER OF SCIENCE IN CLOUD COMPUTING

(LEVEL 9)
COURSE CODE **CR_KCLDC_9**

COURSE FEE
€10,800 in total. Three instalment of €3,600 are possible

ENQUIRIES
Dr Donna O'Shea
T: 021 433 5116
E: cloud@cit.ie
W. http://cs.cit.ie/cloud

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRKCLDC9**

This course is available online only. All classes are delivered over the Internet and all practical work is completed using CIT's cloud infrastructure.

DURATION
24 months (4 semesters) is the minimum duration.

ADMISSION REQUIREMENTS
Entry to the MSc in Cloud Computing will require a minimum of a Level 8 Honours Degree in Computing or in a cognate discipline. As this programme is designed specifically for computing professionals working in the IT industry only graduates with experience will gain direct entry into this programme.

Cloud Computing is considered a relatively new field in Internet computing where novel perspectives in internetworking technologies have emerged. To successfully deal with issues relating to this new paradigm the MSc in Cloud Computing programme aims to equip the graduate with the advanced conceptual understanding, detailed factual knowledge, and specialist architectural and technical skills required to design and implement cloud based solutions and services.

More recently the convergence of the cloud with big data has created additional opportunities for IT professionals to gain valuable insights into their business data. Such insights are critical for companies to maintain their competitive edge, increase their revenues and deliver new innovative services and solutions. The programme also aims to address the skills gap in this area so the graduate is equipped with not only the skills to store the data in the cloud but also to derive meaningful analytics from it to deliver true business value.

The content seeks to reflect current and likely future practice in cloud planning and management, the design and management of virtual environments, data analytics, the consolidation of data centres, security techniques in multi-tenant virtualised environments and related areas that contribute to the building of both private and public cloud environments.

CONTENT
The MSc in Cloud Computing is taught online using Cloud based technologies, so students can learn about the cloud in the cloud. Learning technologies such as Blackboard, Adobe Connect, and virtualised lab infrastructures are just some of the systems that are used to deliver this innovative programme. Lectures, which are delivered at night are streamed live over the Internet and recorded to facilitate easy playback for students. This offers great flexibility to students as they can access their lectures and labs anytime, anywhere on any device that has a Web browser. It is a testament to the online delivery platform in CIT that students can participate in the programme irrespective of their physical location or working status.

MODULES
Mandatory
Cloud Strategy Planning & Management
Computing Research & Practice
Managing Virtual Environments
Data Centre Networking
Cloud Storage Infrastructures
Cloud Security
Research Project
Electives (choose 2)
Scripting for System Automation
Scalable Microservices
Data Analytics
Future Internet

AWARD
Master of Science in Cloud Computing (Level 9 on the National Framework of Qualifications).

CLOSING DATE FOR APPLICATION
14th September 2018.

MASTER OF SCIENCE IN SOFTWARE ARCHITECTURE & DESIGN

(LEVEL 9)
COURSE CODE **CR_KSDEV_9**

COURSE FEE
€6,500

ENQUIRIES
Dr Donna O'Shea
T: 021 433 5116
E: cloud@cit.ie
W: http://cs.cit.ie/sad

NDP National Development Plan
Transforming Ireland

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRKSDEV9**

This programme is available online only. All classes are delivered over the Internet and all practical work is completed using CIT's cloud infrastructure.

ADMISSION REQUIREMENTS
Entry to the MSc in Software Architecture & Design requires a minimum of a Level 8 Honours Degree in Computing or in a cognate discipline with a minimum of 3 years post qualification experience. Applicants may be interviewed by an admission panel. Particular attention will be paid to the applicant's software development experience and motivation, as well as their formal knowledge of object oriented technologies. Applicants may be directed to undertake bridging studies before commencing the programme. The interview will also be used to explore the applicant's CPD plan.

ONLINE DELIVERY
The MSc in Software Architecture & Design is taught online using Cloud based technologies. Learning technologies such as Blackboard, Adobe Connect and virtualised lab infrastructures are just some of the systems that are used to deliver this innovative programme. Lectures, which are delivered at night are streamed live over the Internet and recorded to facilitate easy playback for students. This offers great fexibility to students as they can access their lectures and labs anytime, anywhere on any device using a Web browser. It is a testament to the online delivery platform in CIT that students can participate in the programme irrespective of their physical location or working status.

PROGRAMME AIM
The aim of the Programme is to develop students' knowledge and skills in Software Architecture & Design, Software Development Processes, Analysis and Design of Algorithms, Programming Language Design, Decision Analytics, Software Vulnerabilities, Microservices, and Data Analytics.

Students will develop skills in analysing requirements and designing appropriate software solutions; designing and creating complex software systems to solve real-world problems, evaluating and using advanced software environments, design methods and programming languages, and evaluating and responding to recent trends in interoperability and software development. In addition to the taught modules, students will complete a research project that can be aligned to their own specific research interests.

CONTENT
The MSc in Software Architecture & Design programme is an advanced industry-focused programme that addresses the skills gap of software developers and/or architect in the face of evolving software development practices. It aims to provide students the opportunity for in-depth study of the advanced design and architectural and software development and process skills required for the successful design and development of complex software distributed systems. It provides students with the theoretical and practical knowledge necessary to advance their career in software development as a senior member of the development team or as a software architect.

Delivered exclusively online, the programme offers working professionals flexible opportunities to learn more about technological advances in the industry. The programme places a major emphasis on developing higher level software development skills. Students are exposed to current state-of-the art principles, methods and research of software design and architecture.

MANDATORY MODULES

Software Design & Architecture
Software Process Engineering
Scalable Microservices
Analysis & Design of Algorithms
Computing Research & Practice
Research Project

ELECTIVE MODULES

Decision Analytics
Declarative & Concurrent Programming
Software Vulnerabilities
Programming Language Design
Data Analytics

FURTHER STUDIES

On successful completion of the MSc in Software Architecture & Design programme, graduates will have acquired advanced knowledge and skills to enable them manage, design and create software and processes that are reliable, robust, secure and scalable. After completing this programme graduates may wish to continue to PhD level within the Department of Computer Science.

MASTER OF SCIENCE IN INFORMATION SECURITY

(LEVEL 9)
COURSE CODE **CR_KINSE_9**

ONLINE COURSE FEE

€9,000
Three instalments of €3,000 are possible.

ENQUIRIES

Vincent Ryan
E: vincent.ryan@cit.ie
T: 021 433 5112
W: http://cs.cit.ie/security-online

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **HTTP://CS.CIT.IE/SECURITY-ONLINE**

This programme is available part-time online and full-time on campus. In online mode, all classes are delivered over the Internet and all practical work is completed using CIT's cloud infrastructure.

Students may study the MSc in Information & Security in three stages and on successful completion will be awarded the following:

Stage 1: Certificate in Information Security
(30 ECTS, Stage 1 fee €3,000)
Stage 2: Postgraduate Diploma in Information Security
(60 ECTS, Stage 2 fee: €3,000)

On successful completion of Stage 1 and Stage 2, students may proceed to Stage 3: Master of Science in Information Security (90 ECTS. Stage 3 fee: €3,000).

DURATION & DELIVERY

24 months (4 semesters) is the minimum duration.
The MSc in Information Security part-time offering is taught fully online and is designed specifically for computing professionals working in the IT industry. The modules are assessed by online continuous assessment. The programme is hands-on in nature and provides the learner with detailed working knowledge of the tools used in the field of Information Security. Online lectures are delivered to students 2 evenings per week. Lectures are streamed live over the Internet and recorded to facilitate easy playback for learners.

The full-time offering is taught on campus over one academic year and some elective modules may be taken online.

OVERVIEW

Information security can be defined as the protection of information and information systems from unauthorised access, use, disclosure, disruption, modification, or destruction in order to provide confidentiality, integrity, and availability.

Today, Information Security is becoming a function of increasing importance for the continued operation of commercial entities. The increasing level of interconnectedness of information networks and the reliance of business models on this interconnectedness has resulted in a network (currently the Internet) that has over a yottabyte of information stored, much of which is unsecured. This continuing trend is predicted to strongly increase the importance of Information Security within most multinational entities.

This programme aims to fill the ever increasing skills gap in this area and delivers material that follows the most current practise. Upon successful completion of this programme the student will both understand and deploy the most advanced methods to protect information at rest, in transit, and at work.

ADMISSION REQUIREMENTS

Entry to the MSc in Information Security will require a minimum of a Level 8 Honours Degree in Computing or in a cognate discipline. Applicants who do not hold a Level 8 degree but have significant industrial experience will be considered on a case by case basis

CONTENT

Incident Response and Digital Forensics
Security Management and Law
Applied Cryptography
Web Application and Network Penetration Testing
Networking Security & Forensics
Scripting for System Automation
Information Security Research Project
Elective
Cloud Security
Data Analytics
Malware Investigations
Malware Reverse Engineering
Threat Intelligence
Software Security
Free Choice Module

AWARD

Master of Science in Information Security (Level 9 on the National Framework of Qualifications).
(Single module certification is possible)

MASTER OF SCIENCE IN INFORMATION DESIGN & DEVELOPMENT

(LEVEL 9)
COURSE CODE **CR_KINDD_9**

COURSE FEE
€6,300

ENQUIRIES
Dr Donna O'Shea
T: 021 433 5116
E: cloud@cit.ie
W: http://cs.cit.ie/idd

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **HTTP://CS.CIT.IE/IDD**

This programme is available online only. All classes are delivered over the Internet.

Students may study the MSc in Information Design & Development in three stages and on successful completion will be awarded the following:

Stage 1: Certificate in Information Design & Development (30 ECTS, Stage 1 fee: €2,100)
Stage 2: Postgraduate Diploma in Information Design & Development (60 ECTS, Stage 2 fee: €4,200)

On successful completion of Stage 1 and Stage 2, students may proceed to Stage 3: Master of Science in Information Design & Development (90 ECTS, Stage 3 fee: €6,300).

DURATION & DELIVERY
24 months (4 semesters) is the minimum duration.
The MSc in Information Design and Development is delivered and accessed fully online using state of the art Cloud based technologies. Lectures are delivered online by night and streamed live over the Internet and recorded to facilitate easy playback to students. The programme offers great flexibility to students as they can access their lectures and labs anytime, anywhere on any device that has a Web browser.

OVERVIEW
Information Developers are individuals who bridge the gap between subject matter experts and that of the end user. The role of information developers is becoming increasingly important given that society is being driven by technology and information developers provide the voice in communicating how issues incorporating technology are framed and developed. The Society of Technical Communication (STC) define information developers or technical communicators as individuals that communicate using an instruction based focus on technical or specialised topics using technology. In essence, information development and technical communications ensures that designs, products, systems and methodologies are documented and conveyed to their target audience to maximise its business value to the organisation.

ADMISSION REQUIREMENTS
Applicants who hold a Level 8 degree in any discipline are eligible to apply. Applicants who do not hold a Level 8 degree but have significant industrial experience will be considered on a case by case basis.

CONTENT
All modules are worth 5 credits (ECTS) unless otherwise noted.

Mandatory Modules
XML in Technical Communications (10 ECTS)
Multimedia Production
Information Design & Development (10 ECTS)
Information Strategy
Information Experience (10 ECTS)
Emerging Technological Skills
Document Project Management (10 ECTS)
Thesis (30 ECTS)

Elective
Information Analytics
Scripting for System Administrators

AWARD
Master of Science in Information Design & Development (Level 9 on the National Framework of Qualifications).
(Single module certification is possible)

CLOSING DATE FOR APPLICATION
14th September 2018.

HIGHER CERTIFICATE IN SCIENCE IN SOFTWARE DEVELOPMENT

(LEVEL 6)
COURSE CODE **CR_KCOME_6**

COURSE FEE
€250 per 5 credit module

ENQUIRIES
Gerard MacSweeney
T: 021 433 5574
E: gerard.macsweeney@cit.ie
http://cs.cit.ie/evhc

NDP National Development Plan
Transforming Ireland

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRKCOME6**

This course is designed to provide students with the education and skills needed to pursue a career as a software or computer technician.

ADMISSION REQUIREMENTS
Non-Standard Applicants: Mature Students, FETAC (now QQI) Level 5 applicants are particularly welcome.

Standard Applicants: Leaving Certificate grade D3 at Ordinary or Higher Level in 5 subjects including Mathematics, and either English or Irish.

DURATION
At least six semesters, depending on the number of modules taken per semester.

CONTENT
Among the areas you would be required to study are:
Programming Fundamentals
Web Development Fundamentals
Computer Architecture
Computer Security Principles
Maths for Computer Science
Creativity Innovation & Teamwork
Modular Programming
Introduction to Databases
Operating Systems in Practice
Networking Fundamentals
Physical Computing
Discrete Mathematics 1
Object Oriented Principles
Requirements Engineering
Linear Data Structures & Algorithms
Database Design
Server-side Web Development
Object Oriented Programming
NoSQL Data Architectures
OO Analysis and Design
C Programming
Systems Scripting
Probability and Statistics

PROGRESSION
On successful completion of this programme there are progression opportunities open to further Higher Education Qualifications at Ordinary Degree and Honours Degree Level.

AWARD
Higher Certificate in Science in Software Development (Level 6 on the National Framework of Qualifications).
(Single module certification possible)

CLOSING DATE FOR APPLICATION
14th September 2018.

This programme is supported by the National Development Plan.

BACHELOR OF SCIENCE IN SOFTWARE DEVELOPMENT

(LEVEL 7)
COURSE CODE **CR_KCOME_7**

COURSE FEE
€330 per 5 credit module

ENQUIRIES
Gerard MacSweeney
T: 021 433 5574
E: gerard.macsweeney@cit.ie
W: http://cs.cit.ie/evsd

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRKCOME7**

This 60 credit programme is designed as a follow on programme from the Higher Certificate in Science in Software Development.

ADMISSION REQUIREMENTS
To be eligible to undertake the programme you must hold a Higher Certificate in Science in Software Development or equivalent. The Department operates a policy of recognising prior learning (RPL) in compliance with the overall Institute policy of RPL. For details, visit www.cit.ie/rpl

DURATION
At least three semesters, depending on the number of modules taken per semester.

CONTENT
The first part of this 60 credit programme is comprised of 6 five credit modules. Two 30 credit elective groups are offered in the second part of this programme. The elective groups are:

1. Work Placement (RPL options)
2. Four taught modules.

The four taught modules are:
Emerging Technological Trends (5 credits)
Technical Communication Skills (5 credits)
Open Source Projects (15 credits)
Elective (5 credits)

Among the areas you would be required to study are:
Distributed Sys. Programming
Group Project
Client-side Web Development
Agile Processes
Programming for Data Analytics

FURTHER STUDIES
Graduates from the programme may apply for the BSc (Honours) in IT Management or the BSc (Honours) in Software Development.

AWARD
Bachelor of Science in Software Development (Level 7 on the National Framework of Qualifications).
(Single module certification possible)

CLOSING DATE FOR APPLICATION
14th September 2018.

POSTGRADUATE CERTIFICATE IN INFORMATION DESIGN & DEVELOPMENT

(LEVEL 9)
COURSE CODE **CR_KINDE_9**

COURSE FEE
See page 8 for Springboard+ eligibility criteria

SPRINGBOARD+
FUNDING OPTION AVAILABLE
SEE PAGE 8 FOR ELIGIBILITY

ENQUIRIES
Dr Donna O'Shea
T: 021 433 5116
E: donna.oshea@cit.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.SPRINGBOARDCOURSES.IE/DETAILS/6037**

ADMISSION REQUIREMENTS
Applicants who hold a Level 8 degree from any discipline are eligible to apply for the Certificate in Information Design & Development programme. Applicants who do not hold a level 8 degree award but have appropriate experience may be considered through our well-established Recognition of Prior Learning Processes. For more information, visit www.cit.ie/rpl

This Level 9 certificate programme offers a pathway to the Postgraduate Diploma and Master's Degree in Information Design and Development (http://cs.cit.ie/idd).

Information Developers are individuals who bridge the gap between subject matter experts and that of the end user. Under the banner of information development, the role may also be referred to as technical communicators, documentation specialist, information architects, editor, or go by another name. Regardless of the name, information developers perform a broad range of job functions across diverse industries.

The Society of Technical Communication (STC), define information developers as individuals that communicate using an instruction based focus on technical or specialised topics using technology. Their primary role is to communicate information to users of products or services in a clear concise manner for diverse audiences and stakeholder groups. In essence, information development and technical communications ensure that designs, products, systems and methodologies are documented and conveyed to their target audience to maximise its business value to the organisation.

Please see http://cs.cit.ie/cert-idd for further details.

HIGHER DIPLOMA IN SCIENCE IN CLOUD COMPUTING

[2 YEARS PART-TIME]
(LEVEL 8)
COURSE CODE **CR_KCLCO_8**

COURSE FEE

See page 8 for Springboard+ eligibility criteria

SPRINGBOARD+
FUNDING OPTION AVAILABLE
SEE PAGE 8 FOR ELIGIBILITY

ENQUIRIES

Eoin O'Regan
T: 021 433 5525
E: eoin.oregan@cit.ie

COURSE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.SPRINGBOARDCOURSES.IE/DETAILS/6030**

ADMISSION REQUIREMENTS

Applicants must have a Level 8 degree in any discipline or a Level 7 degree along with relevant experience. You will also need an underlying aptitude to undergo an intensive programme of study to acquire industry-relevant ICT skills at Level 8 of the National Framework of Qualifications (NFQ).

This online two year part-time Higher Diploma in Cloud Computing aims to develop students both technically and personally, and produce focused graduates of high academic and practical standards to match the needs of both the Irish and international IT industry. It will also meet the needs for IT infrastructure and support roles in a broad range of other sectors.

The programme will be delivered exclusively online using CIT's state of the art e-Learning system. Labs are hosted 24/7 on CIT's world-class private cloud infrastructure. During the first year, students will be immersed in a broad set of modules in the fundamentals of computing: Object Oriented Principles, Requirements Engineering, Network Systems, Operating Systems, Data Management Systems and Server-Side Web Development. In the second year, the focus will be on developing Cloud Infrastructure skills. Students will learn about the Virtual Datacentre and the required composite skills to create a Virtual Datacentre.

Please see http://cs.cit.ie/hdip-cloud for further details.

NATIONAL MARITIME COLLEGE OF IRELAND

DEPARTMENT OF MARITIME STUDIES

LOCATION
Ringaskiddy, Co. Cork.

HEAD OF COLLEGE
Dr Matt Cotterell

HEAD OF DEPARTMENT
Capt. Sinéad Reen

ENQUIRIES
T: 021 433 5607
E: admissions@nmci.ie
W: www.nmci.ie

The course offered is subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation, and timetable arrangements will be sent to all applicants via email update.

Enrolment
Course advice and registration will take place in Cork Institute of Technology, Bishopstown Campus on Wednesday 5th September 2018 from 6.00pm to 8.00pm.

NMCI also offers

- Full-time Courses Level 7 and Level 8
- Professional Maritime Short Courses
- GAC Training & Service Solutions (GTSS)
- Offshore courses

WWW.NMCI.IE

COURSE

- Bachelor of Business in Supply Chain and Transport Management (Level 7)

BACHELOR OF BUSINESS IN SUPPLY CHAIN AND TRANSPORT MANAGEMENT

(LEVEL 7)
COURSE CODE **CR_BSCTM_7**

COURSE FEE
€2,950

ENQUIRIES
Dr Jane M. O'Keeffe
T: 021 433 5627
E: jane.okeeffe@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBSCTM7**

DURATION & DELIVERY
1 Year. The lectures take place at the National Maritime College of Ireland in Ringaskiddy, Co. Cork, on Saturdays and one night a week (after discussion with group).

Supply Chain Management has matured from a compelling method of deriving competitive advantage, to now being a baseline expectation for any organisation, both in the private and public sector, wishing to compete in the 21st Century, and with that the professions and occupations comprising Supply Chain Management are now firmly entrenched in the armoury of essential business executives.

ADMISSION REQUIREMENTS
This qualification is a one year step up degree for participants holding the Chartered Institute of Logistics and Transport (CILT) or IIPMM (Procurement and Supply Chain Management) Diploma, Graduateship or degree in Supply Chain Management, or an equivalent Level 6 qualification in a relevant discipline.

Equivalent recognition may be given through the Recognition of Prior learning (RPL) process on an individual case-by-case basis to candidates who have not achieved this academic standard but who can demonstrate significant relevant professional experience in the discipline of Logistics and Supply Chain Management, visit www.cit.ie/rpl.

BENEFITS
You will be one of the elite few:
- who will possess a degree in Supply Chain and Transport Management;
- who, as a result, will secure challenging, better paid and more fulfilling positions in Logistics and Supply Chain;
- who will be empowered with the knowledge and skills to implement the latest best practices in Supply Chain Management in your organisation.

CONTENT
- Quality and Lean Operations
- Managing Performance Measurement
- Warehousing and Inventory Management
- Business and Supply Chain Strategy
- Transport Management in the International Supply Chain
- Management Accounting and Managerial Finance
- Procurement in Supply Networks
- Organisational Structure and Human Resource Management
- Leadership and Communications in the Supply Chain
- Information Technology & Supply Chain Management
- Global Trade and Customs Law
- Advanced Operations Management

CLOSING DATE FOR APPLICATION
Completed applications must be made on-line with CIT before 5pm on 11th September 2018. Classes will commence on 12th September 2018.

AWARD
Bachelor of Business in Supply Chain and Transport Management (Level 7 on the National Framework of Qualifications).

CIT CORK SCHOOL OF MUSIC

HEAD OF SCHOOL

Aiveen Kearney
E: aiveen.kearney@cit.ie

LOCATION

Union Quay, Cork
T: 021 480 7310

THE SCHOOL CONSISTS OF THE FOLLOWING DEPARTMENTS:

- Keyboard Studies
- String Studies
- Wind, Percussion, Voice & Drama Studies
- Musicianship & Academic Studies

HTTP://CSM.CIT.IE

CIT CORK SCHOOL OF MUSIC

HEAD OF THE DEPARTMENT OF KEYBOARD STUDIES

Dr Gabriela Mayer | E: gabriela.mayer@cit.ie

HEAD OF THE DEPARTMENT OF STRING STUDIES

Joan Scannell | E: joan.scannell@cit.ie

HEAD OF THE DEPARTMENT OF WIND, PERCUSSION, VOICE & DRAMA STUDIES

John O'Connor | E: john.oconnor@cit.ie

HEAD OF THE DEPARTMENT OF MUSICIANSHIP & ACADEMIC STUDIES

Maria Judge | E: maria.judge@cit.ie

Choral Group
Fleischmann Choir

Instrumental Groups
Symphonic Wind Ensemble
Jazz Big Band
Symphony Orchestra

Musicianship Skills for Adults
Sight-Singing Classes
Courses for Teachers
Concerts, Performances & Productions
Individual Tuition

HTTP://CSM.CIT.IE

CHORAL GROUP

FLEISCHMANN CHOIR

Rehearsals for this large, mixed-voice choir take place on Monday evenings 7.30pm - 10.00pm.

The conductor is Conor Palliser and the group specialises in singing large-scale works for choir and orchestra. It recent years, it has performed music by Beethoven, Brahms, Bruckner, Dvorák, Finzi, Fleischmann, Handel, Haydn, Jenkins, Mozart, Orff, Schubert, Saint-Saens, Stanford, Tchaikovsky, Vaughan Williams and Vivaldi to name but a few. The choir regularly works with internationally-renowned soloists and future concerts include a performance of music by Rheinberger and Fauré in Como Cathedral, Italy.

Membership is open to enthusiastic and committed choral singers; auditions are held when there are vacancies for certain sections in the choir. Applicants should complete the online application form which can be found at: csm.cit.ie/performing-groups-application

INSTRUMENTAL GROUPS

SYMPHONIC WIND ENSEMBLE

The Symphonic Wind Ensemble rehearses on Wednesday nights from 8.00pm – 10.00pm and is directed by John O'Connor (Head of the CIT Cork School of Music's Department of Wind, Percussion, Voice & Drama Studies).

The Wind Ensemble is a flexible group of up to forty members that caters for wind and percussion players of at least Grade VIII standard. The ensemble explores advanced repertory written specifically for wind groups, ranging from the wind serenades of Mozart to contemporary works.

Details of the programme for the 2018-2019 season will be available from the School's Public Office on or after 1 September 2018. Applications are welcome from external players who may be members of other bands, entry is subject to audition.

Applicants should complete the online application form which can be found at: csm.cit.ie/performing-groups-application

JAZZ BIG BAND

Rehearsals for this 20-piece ensemble take place on Wednesday lunchtime from 1.15pm – 3.15pm under the direction of Cormac McCarthy.

The Big Band repertory ranges from the classic scores of Duke Ellington and Count Basie right up to the most revolutionary contemporary works. The Band performs regularly and has toured England, France, Holland, Italy, and the USA. Musicians of a good standard between the ages of 16yrs and 25yrs are welcome to apply. The Jazz Big Band played at Jazz Standard Club in Mahattan, USA during Easter 2017.

SYMPHONY ORCHESTRA

Rehearsals take place on Tuesday nights from 7.30pm – 10.00pm. The conductor is Conor Palliser.

All the members are of at least Grade VIII standard and the orchestra performs the 19th- and 20th- century literature for large orchestra, regularly accompanies distinguished instrumental soloists, and performs the oratorio repertory with the School's Fleischmann Choir.

Details of the programme for the 2018-2019 season will be available from the CIT Cork School of Music's Public Office on or after 1 September 2018. In recent seasons, the orchestra has performed Tchaikovsky's *Symphony No. 6* and *Capriccio Italien Overture*, Sibelius' *Symphony No. 5*, Schumann's Cello and Piano Concertos, Violin Concertos by Bruch, Barber and Brahms, Shostakovich's Cello Concerto No. 1, Humperdinck's Prelude to *Hansel and Gretel*, and Bernstein's Overture to *Candide*.

Applications are welcome from external players who may be members of other orchestras; entry is subject to audition. Applicants should complete the online application form which can be found at: csm.cit.ie/performing-groups-application.

MUSICIANSHIP SKILLS FOR ADULTS

Adults who wish to become musically literate may enrol for this weekly 1 hour long class. Participants are introduced to the elements of pitch and rhythm through music-making. Learners also are afforded the opportunity to perform class material on Percussion Instruments, Recorder and Keyboard in addition to Singing. Participants are also introduced to the use of Music Notation Software.

There are currently three levels of Musicianship Skills for Adults. Beginners (no experience necessary) may progress from Level 1 to 2 and then 3 where more advanced concepts are introduced. Classes take place after 6pm on Monday or Wednesday (2018-2019 fee to be confirmed).

SIGHT-SINGING CLASS

This weekly class facilitates those who would like to develop their sight-singing skills in a group setting. This course is popular with those who are interested in choral singing and with parents wishing to support their children's musicianship studies

COURSES FOR TEACHERS

We offer short courses aimed at pre-school, primary and post-primary teachers offering choral skills, musicianship and literacy development, music technology, classroom percussion, and curriculum support. Contact maria.judge@cit.ie for more information.

CONCERTS, PERFORMANCES AND PRODUCTIONS

The CIT Cork School of Music hosts a wide-ranging series of productions, recitals and concerts throughout the year. The School also presents many performances by its own performing groups – most of which take place within the School's premises, others of which take place in venues throughout both Cork city and the country as a whole. Full details are available at http://csm.cit.ie

If you wish to receive a weekly concert bulletin please email: noranne.elliott@cit.ie

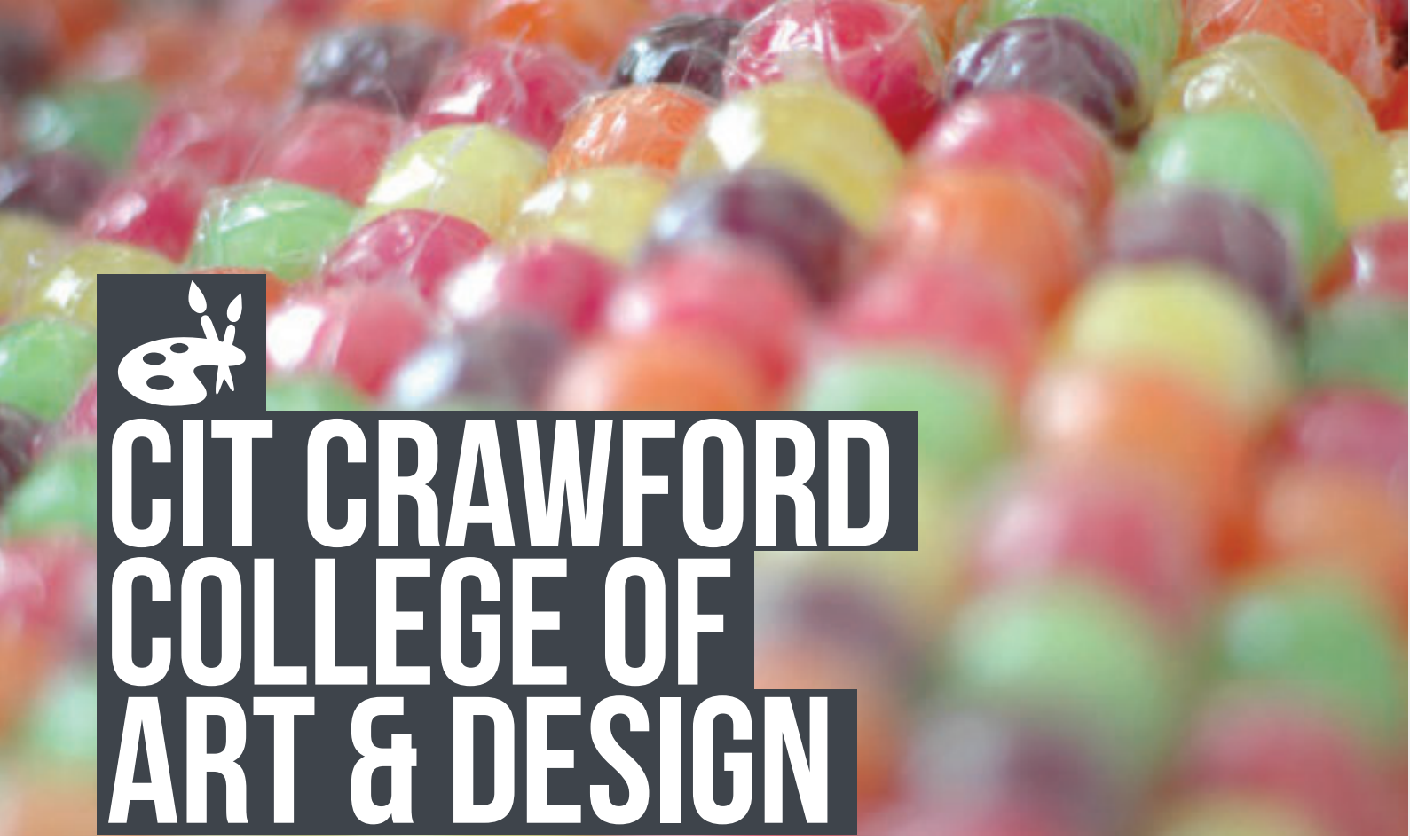
Further information may be obtained from the CIT Cork School of Music, Union Quay, Cork T: 021 480 7310 and also on the events section of the CSM website – http://csm.cit.ie

INDIVIDUAL TUITION

A limited number of vacancies may arise for individual tuition in singing, speech, theory of music including diploma preparation, and certain instruments. Whilst enrolments normally take place in April and are subject to audition/interview, enquiries about vacancies are welcome at any time. Where possible, late applications will be considered.

Applicants should consult the School's Enrolment Information Booklet and complete the relevant online application form, which can be found at: csm.cit.ie/part-time-application.

Full details about the enrolment procedure is available from the General Office at Cork School of Music. Students should also refer to the Information for Students & Staff booklet available at csm.cit.ie and also available at the General Office, CSM.



CIT CRAWFORD COLLEGE OF ART & DESIGN

HEAD OF COLLEGE

CATHERINE FEHILY

LOCATION

Sharman Crawford Street, Cork
T: 021 433 5220
E: ccad.enquiries@cit.ie

The College consists of the following Departments:

- Arts in Health & Community Practice
- Fine Art & Applied Art
- Art & Design Education
- Media Communications

Crawford Campus
An information evening will be held on Thursday, 6th September 2018, 6.00pm – 8.00pm.

Bishopstown Campus
(Department of Media Communications courses)
An information evening will be held at the CIT Bishopstown Campus on Tuesday 4th September 2018, 6.00 – 8.00pm.

If you have any queries, please contact the College Secretary by E: ccad.enquiries@cit.ie. Early enrolment is advisable as places are limited.

All courses offered are subject to demand and places may be limited. All online applicants will receive an email confirmation.

HTTP://CRAWFORD.CIT.IE

COURSES

- MA in Art Therapy (Level 9)
- MA in Art & Process (Level 9)
- MA in Public Relations with New Media (Level 9)
- MA in Journalism and Digital Content Creation (Level 9)
- MA in E-Learning Design and Development (Level 9)
- Certificate in Digital Media Design and Development (Level 8)
- Certificate in TV Production (Level 8)
- Certificate in Radio Broadcast Media (Level 6)

WEEKEND COURSES

- Art Therapy Summer School
- Crawford Art Summer School
- Certificate in Principles of Art Therapy (Level 8)
- Certificate in Arts in Group Facilitation (Level 8)
- Creativity & Change (Level 9)
- Art Therapy Introductory Weekend Workshops
- Art Portfolio Preparation
- Principles of Sesame Drama and Movement Therapy (Level 8)

EVENING COURSES

- Life Drawing (Intermediate or Contemporary)
- Drawing/Painting (non accredited)
- Photography (Digital or Analogue)
- Stained Glass
- Pottery Beginners
- Pottery Advanced (non accredited)

The evening courses generally run on week nights, one night per week over 20 weeks from October to April.

Special Conditions
Course fees are inclusive of cost of practice materials only. Students undertaking individual projects are required to provide their own materials.

Students enrolling for a course paid for by a Community Employment Scheme (or similar) must produce at enrolment written undertaking of payment by scheme.

All courses will run subject to minimum enrolment. All course fees must be paid in full on enrolment. Course lecturing staff may be subject to change. Please note that all times are subject to change.

How to Apply

Online Application:
The majority of the part-time courses (accredited) have an online application process. Please visit your chosen course at www.cit.ie/ccad and click on the 'Apply Tab' to begin the application process. There is also a designated contact name for each course should you have any queries. Early application is advisable as numbers of places on courses are limited. Please note that all courses will run subject to minimum enrolment.

Paper Application:
A small number of part-time courses (Drawing & Painting & Advanced Pottery) require a paper application form. Please contact the CIT CCAD office (T: 021 4335220 or E: ccad.enquiries@cit.ie) to request an application form. Application forms must be completed in full. It is particularly important that each applicant clearly identifies the course and subjects for which he/she is registering. The onus is on each applicant to ensure that this information is accurate.

All fees must be paid in full on enrolment.

For Information/Enrolment details please contact

CIT Crawford College of Art & Design
Sharman Crawford Street, Cork.
T: 021 433 5220
E: ccad.enquiries@cit.ie

Department of Media Communications
CIT Bishopstown Campus, Cork
T: 021 433 5810
E: veronique.osullivan@cit.ie

CIT CRAWFORD COLLEGE OF ART & DESIGN

DEPARTMENT OF ARTS IN HEALTH & COMMUNITY PRACTICE

HEAD OF DEPARTMENT

Ed Kuczaj
T: 021 433 5246
E: ed.kuczaj@cit.ie

COURSES

- MA in Art Therapy (Level 9)

WEEKEND COURSES

- Art Therapy Summer School
- Certificate in Principles of Art Therapy (Level 8)
- Certificate in Arts in Group Facilitation (Level 8)
- Creativity & Change (Level 9)
- Art Therapy Introductory Weekend Workshops
- Crawford Art Summer School
- Principles of Sesame Drama and Movement Therapy (Level 8)

If you have any queries, please contact the CIT CCAD office (T: 021 4335220 or E: ccad.enquiries@cit.ie).

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation and timetable arrangements will be sent to all applicants via email update.

For more information, please visit Pages 162/163 of this Handbook.

HTTP://CRAWFORD.CIT.IE

MASTER OF ARTS IN ART THERAPY

(LEVEL 9)
COURSE CODE **CR_ATHPY_9**

COURSE FEE

Full-time: EU Applicants €7,950 + €7 USI Levy
Part-time: EU Applicants €2,650 per annum over 3 years
Full Time: Non EU Applicants: €12,000 per annum

ENQUIRIES

Ed Kuczaj
T: 021 433 5246
E: ed.kuczaj@cit.ie
W: www.artincontext.eu

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRATHPY9**

DURATION & DELIVERY

2 years full-time/3 years ACCS/part-time.

This is a 90 credit modular course which on completion of the training allows individuals to then register with the professional body Irish Association of Creative Arts Therapists (IACAT).

The training can be completed over either a full-time period of two years or ACCS (part-time mode) of three years. Attendance of four days per week on the full-time course (two college days and two clinical placement days) and two days per week on the part-time/ACCS course (one college day and one clinical placement day).

ADMISSION REQUIREMENTS

Applicants normally require:

- A good understanding of therapeutic and professional working of Art Therapy and the implications of working as a therapist.
- An Honours degree, or equivalent, in Visual Art. Where graduate qualifications are not in the visual arts, for example, Psychiatric Nursing, Social Work or Teaching, evidence of a substantial and developing body of current and recent art work is essential
- Two satisfactory references from clinical and professional persons who have knowledge of the candidate's education, training and experience
- Pre-course experience in personal therapy or counselling is preferred:
- Minimum of one year, or equivalent, full-time clinical/care work in an area relevant to art therapy, paid or voluntary. This work may be, for example, in Health or Social Services, Special Education, Community Care or Day Centres, with clients who have a mental illness, learning or physical disability
- Strong portfolio of personal artwork showing an understanding of an appropriate art form, the art-making process showing the applicants relationship and connection to their creative process

EARLY ASSESSMENT

Because of the clinical placement component of this course, it is a condition of entry that all successful applicants who gain a place on the course will be subject to the National Vetting Bureau (NVB) procedure carried out by the NVB facilitator at CIT.

Offers of a place on this programme will be provisional and contingent on the applicant's satisfactory completion of CIT's NVB procedure. Visit www.cit.ie/gardavetting

OVERVIEW

The programme aims to equip Art Therapy practitioners with a range of therapeutic skills and interventions to work with both individual and group clients in a range of health and community settings and follows three strands of learning:

- Theoretical Studies (25 Credits)
- Experiential Art Therapy Training (20 Credits)
- Clinical Placement and Professional Studies (45 Credits)*

*Supervision of the clinical experience is central to the art therapy training and is provided in small groups at Crawford College and individually on placement.

Students are encouraged to experience a number of differing placement situations over the course of their training. Please note that students must have their placements in a new setting and not at their workplace.

CAREER OPPORTUNITIES

Art therapists work in a wide variety of HSE and social care settings, including – adult and child psychiatry, education, palliative care, addiction services and community day centres. Many also work in private practice.

Closing date for applications is 31st May 2018.

WEEKEND COURSES

ART THERAPY SUMMER SCHOOL 2018

ENQUIRIES

Louise Foott E: louise.foott@cit.ie

This is a five-day experiential art therapy workshop exploring a theme and one's personal journey therein. This course is highly recommended. It will run for five days from Saturday 30th June – Wednesday 4th July. For further details please see www.artincontext.eu.

CERTIFICATE IN PRINCIPLES OF ART THERAPY

(FOUNDATION COURSE) 2018 – 2019

COURSE CODE **CR_AATPY_8_Y1**

APPLICATION

Apply online at www.cit.ie/course/CRAATPY8Y1

ENQUIRIES

Louise Foott E: louise.foott@cit.ie

This 10 credit Level 8 course offers a further introduction to Art Therapy, from October to April (Friday 10.30am – 4.00pm and Saturday 10.00am – 3.00pm, to accommodate travel arrangements). It usually falls on the second weekend of the month and runs over eight weekends. Each weekend, students will participate in experiential workshops with qualified arts therapists. A variety of approaches to Art Therapy is introduced through workshops, lectures and seminars. For further details please see www.artincontext.eu

Entry to this course is by interview. Closing date for application is 31st May 2018.

CERTIFICATE IN ARTS IN GROUP FACILITATION

2018 – 2019

COURSE CODE **CR_AGRPA_8_Y1**

APPLICATION

Apply online at www.cit.ie/course/CRAGRPA8

ENQUIRIES

Louise Foott E: louise.foott@cit.ie

This 10 credit Level 8 course is a community arts training programme, involving training in visual arts, drama and movement, group facilitation skills and disability equality.

It explores the potential of creativity in a group setting, within the context of disability equality and self-advocacy training. The course aims to facilitate the participation of people with and without disabilities who have an interest and commitment to the development of their creativity and group skills.

It is run one weekend a month for ten weekends from September to June, (Thursday or Friday, and Saturday, 10.30am - 3.30pm) including six three day weekends. There will be a total of 26 training days. Participants will also carry out approximately 10 hours of work practice in their own time. For further details please see www.artincontext.eu

Closing date for application is 31st May 2018

WEEKEND COURSES

CREATIVITY & CHANGE

COURSE CODE **CR_ACRCH_9**

APPLICATION

Apply online at www.cit.ie/course/CRACRCH9

ENQUIRIES

ccad.globalarteduc@cit.ie

This 20 credit Level 9 course explores the use of creativity and its power to ignite empathy, passion and learning about our interconnected and interdependent world. It is about imagining more humane, just and viable ways to live in the world and to connect with how we think, live, and act in the world. This course explores how we can live as connected global citizens becoming part of the changes we want to see.

Course duration: one Academic Year (Part-time. 2 weekend days/month Sept to May).

PRINCIPLES OF SESAME DRAMA AND MOVEMENT THERAPY

COURSE CODE **CR_ASDMT_8**

APPLICATION

Apply online at www.cit.ie/course/CRASDMT8

ENQUIRIES

Louise Foott
E: louise.foott@cit.ie
W: www.artincontext.eu

This Special Purpose Award at Level 8 (10 credits) is aimed at both individuals with some experience of working in a creative expressive medium with other people who wish to explore further therapeutic training, as well as health workers, educators, psychotherapists, psychologists, social workers, who seek to develop imaginative and embodied interventions in their practice.

CRAWFORD ART SUMMER SCHOOL

ENQUIRIES

Ed Kuczaj
E: ccad.enquiries@cit.ie
T: 021 433 5220

CCAD will be offering a number of short courses this summer, subject to demand. This programme is designed to reach out to all ages and abilities. It provides an atmosphere in which to learn, enjoy and experiment in the arts.

- **Portrait & Life Drawing**
  19th – 21st June 2018 &
  17th – 19th July 2018

- **5 Day Life Drawing Marathon**
  2nd – 6th July 2018 &
  9th – 13th July 2018

Please check the CCAD website HTTP://CRAWFORD.CIT.IE or contact the CCAD Office E: ccad.enquiries@cit.ie

ART THERAPY INTRODUCTORY WEEKEND WORKSHOPS

ENQUIRIES

Louise Foott
E: louise.foott@cit.ie
W: www.artincontext.eu

Each weekend will consist of an exploration of the theory and practice of Art Therapy, together with an opportunity to work experientially. Introductory weekends are normally held in November, March and May each year. For further details please see www.artincontext.eu.

CIT CRAWFORD COLLEGE OF ART & DESIGN

DEPARTMENT OF ART & DESIGN EDUCATION

HEAD OF DEPARTMENT

Albert Walsh
T: 021 433 5247
E: albert.walsh@cit.ie

COURSE

- Art Portfolio Preparation

If you have any queries, please contact the CIT CCAD office (T: 021 4335220 or E: ccad.enquiries@cit.ie).

Both programmes offered are subject to demand and places may be limited.

For more information, please visit Pages 162/163 of this Handbook.

HTTP://CRAWFORD.CIT.IE

ART PORTFOLIO PREPARATION

(SATURDAY MORNINGS)
COURSE CODE **CR_ARO15**

APPLICATION
Please email ccadenquiries@cit.ie or download form on http://crawford.cit.ie

COURSE FEE
€480

ENQUIRIES
E: ccad.enquiries@cit.ie

Timetable: Saturday 10.00am – 1.00pm

This is a 15-week course suitable for those seeking art college entry. Participants will be tutored in composition, observational drawing, life drawing, painting, and developing a sketchbook.

Other activities, such as photography, collage, 3D, and gallery visits are covered during the course. Tuition will be given in developing a well balanced portfolio.

Enrolment by post or in person on Thursday, 6th September 2018, 6.00pm – 8.00pm.

ART PORTFOLIO PREPARATION

(7 DAY INTENSIVE COURSE)

APPLICATION
Please email ccadenquiries@cit.ie or download form on http://crawford.cit.ie

COURSE FEE
€350

ENQUIRIES
E: ccad.enquiries@cit.ie

This course begins Monday, 25th June and finishes on Friday, 29th June 2018. It takes place in the CIT, Crawford College of Art & Design Campus – No. 46 Grand Parade, Cork City – from 10am to 4.00pm.

It is designed to assist and advise those developing a portfolio of work for entry into all Art & Design related courses. It is suitable for both mature and Leaving Certificate students. Two specialist lecturers will take the students through a number of set projects including disciplines such as: drawing, painting, printmaking, photography, 3D construction and life drawing. The students will create a well-balanced and individual portfolio with their personal career path in mind.

All specialist materials are supplied. Course fee is €350. The course runs subject to minimum enrolment. Places on this course are offered on a first come first served basis and will be secured on receipt of fee. All enquiries to CCAD: enquiries@cit.ie or contact CIT Crawford College of Art & Design, Sharman Crawford Street, Cork. Tel: 021 433 5200

CIT CRAWFORD COLLEGE OF ART & DESIGN

DEPARTMENT OF FINE ART & APPLIED ART

HEAD OF DEPARTMENT

Trish Brennan
E: trish.brennan@cit.ie

COURSE

- Master of Arts in Art & Process (Level 9)

If you have any queries, please contact the CIT CCAD office (T: 021 4335220 or E: ccad.enquiries@cit.ie).

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation and timetable arrangements will be sent to all applicants via email update.

For more information, please visit Pages 162/163 of this Handbook.

HTTP://CRAWFORD.CIT.IE

MASTER OF ARTS IN ART & PROCESS (TAUGHT)

LEVEL 9
COURSE CODE **CR_AARTP_9**

COURSE FEE

EU Applicants: €4,500
Non-EU Applicants: €12,000

Students should note that Fees quoted relate to 2018 only and are subject to change on an annual basis.

ENQUIRIES

E: ccad.enquiries@cit.ie / trish.brennan@cit.ie
W: https://www.facebook.com/maap.ccad

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CR_AARTP_9**

DURATION & DELIVERY

1 year full-time / 2 years part-time

Course Structure Full-Time:
No. of semesters: 3
No. of weeks per semester: 13
No. of timetable hour's week: approx. 10

Course Structure Part-Time:
No. of semesters: 6
No. of weeks per semester: 13
No. of timetable hour's week: approx. 5

DESCRIPTION

MA:Art & Process is a 12 month taught Masters in Fine Art that is delivered full-time over 3 semesters, from January to December, and part-time over 2 calendar years. This intensive programme enables students to investigate, develop and position their art practice, offering city centre studio space, innovative approaches to teaching, and professional experience through collaborative projects.

The concept of process is understood in a variety of ways: as material exploration and the engagement with medium and technique; as theoretical investigation and systems of enquiry without resolved or object-based endpoints; as innovative models of art distribution, including the possibilities of working outside traditional sites of art production and reception. Process also refers to the progression each student achieves over the course of the MA, which involves the observation, critique, deconstruction, documentation and rebuilding of individual practice.

MA:AP welcomes students with diverse backgrounds e.g. painting, performance, film, architecture, installation, sound, sculpture etc. Process is proposed as a point of common focus for peer interaction, inviting diversity of approaches and media, and allowing the points of convergence and divergence between a range of practices to be explored.

ADMISSION REQUIREMENTS

MA:AP welcomes applicants with diverse backgrounds. Those holding a Level 8 Honours Bachelor Degree in Fine Art or an associated discipline, with a minimum of an Honours 2.2 (or equivalent) are eligible to apply for the programme. Graduates from other subject areas are invited to apply provided they meet the entry requirements.

Applicants who hold a Level 8 award at pass level or a Level 7 award (or equivalent) may be considered on the basis of significant relevant experience.

In certain circumstances mature applicants with long-standing professional experience will be considered for eligibility through recognition of prior and experiential learning, policies for which are well established in CIT.

For more information, please visit www.cit.ie/rpl

CIT CRAWFORD COLLEGE OF ART & DESIGN

DEPARTMENT OF MEDIA COMMUNICATIONS

HEAD OF DEPARTMENT

Rose McGrath
E: rose.mcgrath@cit.ie

DEPARTMENT SECRETARY

Veronique O'Sullivan
T: 021 433 5810
E: veronique.osullivan@cit.ie

COURSES

- Master of Arts in Public Relations with New Media (Level 9)
- Master of Arts in Journalism and Digital Content Creation (Level 9)
- Master of Arts in E-Learning Design and Development (Level 9)
- Certificate in Digital Media Design and Development (Level 8)
- Certificate in TV Production (Level 8)
- Certificate in Radio Broadcast Media (Level 6)

If you have any queries, please contact the Department Secretary, details above.

All programmes offered are subject to demand and places may be limited. All online applicants will receive an email confirmation. Details about eligibility, programme orientation and timetable arrangements will be sent to all applicants via email update.

For more information, please visit Pages 162/163 of this Handbook.

Please Note: all courses run by the Department of Media Communications take place at the CIT's Bishopstown Campus.

HTTP://CRAWFORD.CIT.IE

MASTER OF ARTS IN PUBLIC RELATIONS WITH NEW MEDIA

(LEVEL 9)
COURSE CODE **CR_BPRNM_9**

COURSE FEE
EU Applicants: €4,550

ENQUIRIES
Emmett Coffey
T: 021 432 6118
E: emmett.coffey@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRBPRNM9**

DURATION
This is a full-time programme which can be studied part-time, over two years.

ADMISSION REQUIREMENTS
Entrants will be expected to hold minimum of a 2.2 honours degree. Admission to the course will be on the basis of interview. Recognition of Prior Learning (RPL) will be applicable for candidates entering from the workplace or applying for admission from other institutes. Visit www.cit.ie/rpl.

OVERVIEW
This innovative MA programme offers the opportunity to gain a comprehensive understanding of public relations as a form of communication and pays particular attention to the growing importance of digital and interactive media on the practice of public relations and professional communications.

By developing student's research, planning, managerial and multimedia skills the course aims to produce graduates who can display leadership and show the capacity for innovation within the dynamic and fast evolving professional communications industry. Course content focuses strongly on PR tools and techniques, particularly within the growing new media environment, and on the increasing globalisation and convergence of the media industries.

Through liaison with PR professionals and by working on 'live' industry projects, the course aims to equip graduates with the knowledge, skills and competencies required to effectively function as a public relations professional in an era of high-speed and interactive digital communications.

MODULE INFORMATION
The elective modules afford the learner the opportunity to broaden his/her skills set in other disciplines or to deepen his/her skills set in the wider professional communications environment. The elective modules offered in any given year are delivered subject to demand and resource availability.

Stage 1/Semester 1
PR Theory & Application
Ethics & Social Responsibility
Multimedia Production
Media Writing
Research Methods and Practice
Elective
Brand Management
Direct Marketing Environment
Strategy Analysis

Stage 1/Semester 2
PR and New Media
New Media Production
Cybercultures
Bus Communication & Online Writing
Public Relations Campaigns
Elective
Media Law, Ethics & Professional Practice
Event & Project Management
The Business Environment
Enterprise and Innovation

Stage 2/Semester 1
Public Relations MA Project

AWARD
Master of Arts in Public Relations with New Media (Level 9 on the National Framework of Qualifications).

Please note this course takes place at CIT Bishopstown Campus.

MASTER OF ARTS IN JOURNALISM & DIGITAL CONTENT CREATION

(LEVEL 9)
COURSE CODE **CR_HJWNM_9**

COURSE FEE
€5,000

ENQUIRIES
Frank O'Donovan
T: 021 432 6117
E: frank.odonovan@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRHJWNM9**

DURATION & DELIVERY
This is a full-time programme which can be studied part-time, over two years.

AIM
The overall aim of this programme is to produce graduates who can demonstrate essential skills in the fast-moving environment that is modern Journalism. Graduates will have acquired the knowledge, skills and competencies that will equip them to function as professionals with a solid grounding in the tools and practices of print, broadcast and online journalism.

Course content focuses strongly on journalistic tools and techniques, particularly within the fast moving environment that is modern Journalism and digital content creation. Graduates will acquire the knowledge, skills and competencies that will equip them to work as professionals in the communications industry with a solid grounding in the tools and practices of journalism and digital content creation.

The course is a well-rounded, professional programme that prepares graduates for entry-level positions in the media. The programme stresses a balance of academic and practical modules and offers a solid grounding in the tools and practices of print, broadcast, and digital content creation.

ADMISSION REQUIREMENTS
Entry requirements for this course will be in accordance with standard Institute admissions procedures. Entrants will be expected to hold minimum of a 2.2 honours degree.

Admission to the course will be on the basis of interview. Recognition of Prior Learning (RPL) will be applicable for candidates entering from the workplace or applying for admission from other institutes. Visit www.cit.ie/rpl.

CONTENT
Stage 1/Semester 1
Audio Broadcasting
Writing for Media
Media History & Structure
Research Methods and Practice
Multimedia Production
New Media Workplace

Stage 1/Semester 2
Visual Broadcasting
Features and Web Writing
Media Communications Law
Cybercultures
New Media Production
Elective
Studio Technology
Free Choice Module
Creative Thinking and Design
Event Management

Stage 2/Semester 1
Journalism MA Project

AWARD
Master of Arts in Journalism and Digital Content Creation (Level 9 on the National Framework of Qualifications).

MASTER OF ARTS IN E-LEARNING DESIGN AND DEVELOPMENT

(LEVEL 9)
COURSE CODE **CR_HELDE_9**

COURSE FEE

€5,250

ENQUIRIES

Dr Gearóid Ó Súilleabháin
T: 021 433 5933
E: gearoid.osuilleabhain@cit.ie
W: http://tel.cit.ie/ma-in-e-learning

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRHELDE9**

DELIVERY & DURATION

Online 2 semesters (January to September).

OVERVIEW

E-learning as a field of study, as an approach to teaching and learning and as an industry, has evolved considerably over the last decade and a half. Governments and policy makers have made e-learning a central imperative of their political educational rhetoric and provide substantial funding initiatives to support its development and mainstreaming. Related policies, practices and requirements with regard to lifelong learning, and continuous education combine with the benefits and wider acceptance of e-learning as a delivery and support tool to make e-learning one of the most rapidly growing areas in both the worldwide education and training sector and the digital media sector today.

PROGRAMME AIM AND ORIENTATION

In the above context the programme seeks to produce developers of cutting edge, educationally effective e-learning solutions. Our graduates, subsequently, will go on to work as designers and developers either directly as part of the burgeoning e-learning sector or in support of in-house e-learning and learning technology departments which are becoming mainstream in a number of other areas and industries.

The programme is a Master of Arts and, as such, reflects a special orientation towards, variously, creativity, culture and design, rather than technology per se.

ADMISSION REQUIREMENTS

Direct entrants to this 60 credit award would typically require a Level 8 qualification in fields such as multimedia, digital media, media applications or a relevant area of design. Applicants without such qualifications will also be considered if they can show an equivalent level of learning gained through practice or any other means (see CIT's policy for Recognition of Prior Learning www.cit.ie/rpl).

Level 8 graduates with qualifications in other fields are invited to undertake an initial 30 credit *Certificate in Digital Media Design and Development*. Please see www.cit.ie/course/CRHDMTE8 for more information.

In all cases final admission to the course will be on the basis of interview.

DELIVERY

The programme is delivered entirely online using many of the same e-learning tools and technologies which also form the course curriculum. This means the programme may appeal to those who, for whatever reasons, cannot commit to attending regular face-to face lectures and labs or who simply find the flexibility and convenience of studying at a distance attractive.

Semester 1
E-Learning Instructional Design
Education Research & Proposal
New Media Workplace
Narrative & Games for Learning
E-Learning Authoring

Semester 2
E-learning Thesis
E-learning Project

CERTIFICATE IN DIGITAL MEDIA DESIGN AND DEVELOPMENT

(LEVEL 8)
COURSE CODE **CR_HDMTE_8**

COURSE FEE

€1,800
€300 per module

ENQUIRIES

Dr Jessica Shine
T: 021 433 5933
E: jessica.shine@cit.ie
W: http://tel.cit.ie/certificate-in-digital-media

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRHDMTE8**

AIM

The programme will provide students with a broad and practical introduction to the world of digital media design and development. Graduates will leave equipped with fundamental skills and knowledge with regard to a wide range of modern digital media technologies and design solutions and will have a systematic understanding of the design and development process and of related job roles and industries.

As such, this single semester online programme may appeal to those lacking a background in the above but with an interest in either:

a) enriching their own work practices with key digital media skills and a deeper understanding of this field.
b) taking the first steps in beginning an actual career in the broad digital media industry. In this latter context the award is accepted as a bridging route for applicants who are interested in undertaking the Department's 60 credit Master of Arts in E-learning Design & Development but who do not possess the pre-requisite digital media experience or qualifications.

The programme will draw from extensive in-house expertise and facilities within the Department of Media Communications with regard to digital media production and post-production, programming and application development, user experience research, interaction design etc.

DELIVERY

The programme is delivered entirely online using many of the same tools and technologies which also form the course curriculum. This means the programme may appeal to those who, for whatever reasons, cannot commit to attending regular face-to-face lectures and labs or who simply find the flexibility and convenience of studying at a distance attractive.

ADMISSION REQUIREMENTS

Candidates are required to have already completed a Level 8 degree or equivalent. Basic computer, web and keyboard skills are essential. Familiarity with social media and media sharing platforms and services are desirable also, as well as an interest at the very least in video production, graphic design, and/or interactive media.

In all cases final admission to the course will be on the basis of interview.

CONTENT

Mandatory Modules
Multimedia Production
E-Learning
Web Design Basics
Moving Image & Sound
Creative Strategies
Electives *(choose 1)*
Digital Culture
Interpreting Sound & Music

AWARD

Certificate in Digital Media Design and Development (Level 8 on the National Framework of Qualifications).

CERTIFICATE IN TV PRODUCTION

(LEVEL 8)
COURSE CODE **CR_HTVPR_8**

COURSE FEE
€2,000

ENQUIRIES
Anne-Marie Green
T: 433 5810
E: annemarie.green@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRHTVPR8**

AIM
The Certificate in Television Production is aimed at those wanting to launch a career in TV programme making, as well as those already in the industry wanting to upskill. It combines study of the media market, both domestic and international, with specialised training in craft and production. Lectures will introduce students to the current industry environment with in-depth knowledge of media ownership, funding models and programme formats. Students will develop the professional skills required to launch a career within the television production sector.

What will you be doing?
TV Production, Audio visual production, researching, directing, camera operators, sound recording and video editing, live programming and documentary making.

Why do this course?
- All participants will get work experience in RTE and or an independent TV production companies.
- Students will be introduced to experienced and senior speakers working in TV production both in Ireland and internationally.
- Annual seminar organised by students on current and emerging trends within programme production will provide further networking opportunities.
- The programme is delivered in a blended format, combining both online delivery and face-to-face placement activities. Blended learning will offer you the opportunity to study part of the programme within your own schedule and at your own location.

ADMISSION REQUIREMENTS
Admission to the Certificate in TV Production (Level 8) programme is based on a combination of an online application form and a short interview process. All candidates are required to have already completed a Level 7 degree or equivalent in the cognate area. Familiarity with digital media and media sharing platforms and services are necessary, as well TV/video production knowledge, some graphic design and/or sound production. Alternatively a Level 7 qualification in Journalism.

Recognition of Prior Learning (RPL)/advanced entry will be applicable for candidates with existing prior experiential learning (please visit www.cit.ie/rpl for more information).

Shortlisted candidates will be invited forward for interview. As part of the interview process they will be asked to present a selection of suitable TV production and or digital media project pieces.

DURATION & DELIVERY
1 Year part-time

Semester 1
TV Production Careers
TV Industry Environment

Semester 2
TV Industry Placement*

*The TV Industry Placement module provides students with valuable experience of both initial on site industry practice as well as specialised training. During the first part of the placement period participants will have the opportunity to observe live studio production, directing and camera operation, pre and post-production workflows including research and programme concept development experience. Industry partners will collaborate in identifying appropriate skillsets that students can develop and in which they will receive hands-on experience.

AWARD
Certificate in TV Production (Level 8 on the National Framework of Qualifications).

Please note this course is delivered on Apple Mac computers and takes place at CIT Bishopstown Campus.

CERTIFICATE IN RADIO BROADCAST MEDIA

(LEVEL 6)
COURSE CODE **CR_HBRME_6**

COURSE FEE
€440 per module

ENQUIRIES
Anne-Marie Green
T: 021 4335810
E: annemarie.green@cit.ie

COURSE & MODULE INFORMATION, AND TO APPLY ONLINE, VISIT **WWW.CIT.IE/COURSE/CRHBRME6**

AIM
This is a one-year, two-semester programme in Broadcast Media, incorporating a work placement in the second semester. The course contains modules that facilitate employers and employees and those wishing to upgrade their skills by offering individual or multiple modules in an easily accessible, learner-centred manner.

The programme will equip its graduates with the knowledge, skills, and competencies to develop as broadcasters in a fast growing media rich and technically advanced environment. It has a strong focus on developing students' broadcasting skills and giving them a good understanding of the principles and practices of reporting, practical broadcasting and audio-visual broadcasting technology.

The programme will draw from staff expertise within the Department of Media Communications, which brings with it extensive experience of audio-visual production, journalism and new media. The Department is home to a new Master of Arts in Journalism and digital content creation and the staff from this programme will be delivering this special purpose award. The Department of Media Communications has extensive in-house expertise and facilities with regard to broadcast media.

A number of local and national broadcasting industries and local community radio stations have been contacted to participate in the industry placement from which we have received a very positive response.

Graduates of this programme will be able to:
- Demonstrate the technical and production knowledge of audio-visual broadcasting technology
- Present broadcasting practical knowledge and application
- Demonstrate a theoretical knowledge of broadcasting and reporting
- Apply a range of broadcasting principles and technical skills in an industry placement

ADMISSION REQUIREMENTS
Candidates would be expected to have successfully completed the Leaving Certificate (or equivalent). Basic computer and keyboard skills are necessary. Applicants without such qualifications will also be considered if they can show an equivalent level of learning gained through practice or any other means (see CIT's policy for Recognition of Prior Learning www.cit.ie/rpl).

DURATION & DELIVERY
1 Year part-time

- **Introduction to Audio Visual Broadcasting Technology**
  Tuesday, 6.30pm – 9.30pm Semester 1 (13 weeks)
- **Journalistic Writing and Principles**
  Wednesday, 7.00pm – 9.00pm Semester 1 (13 weeks)
- **Practical Broadcasting Skills**
  Tuesday, 6.30pm - 9.30pm Semester 2 (13 weeks)
- **Broadcasting Industry Placement**
  Thursday 7.00pm – 9.00pm Semester 2 (13 weeks)
  (First meeting – arrangements for work placement will then be scheduled)

AWARD
Certificate in Radio Broadcast Media (Level 6 on the National Framework of Qualifications).

Please note this course is delivered on Apple Mac computers and takes place at CIT Bishopstown Campus.

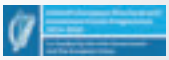
NOTES

PUBLISHED BY
Cork Institute of Technology,
Bishopstown, Cork, Ireland, T12 P928.

CIT Marketing Unit | info@cit.ie

NOTE: Every effort has been made to ensure that the information herein is accurate. However, this Handbook does not infer or impose any legal obligations on Cork Institute of Technology to provide courses or other services to students. It does not constitute an offer to supply modules, courses or subjects. Syllabi, fees, regulations or other information may be altered, cancelled or otherwise amended at any time. This Handbook does not confer any rights on any student registered with the Institute.

N.B. Fees quoted relate to the academic year 2018/2019 only and may be subject to change.



E&OE

The development of Cork Institute of Technology has been supported by the European Union. This support has contributed to staffing, running costs, and student grants, allowing the Institute to play a major role in the social and economic development of the country.

Design and Layout: Blue Bamboo Design Studio
Print: City Print

CORK INSTITUTE OF TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ

knowledge at work

INFORMATION EVENING

4th, 5th & 6th September 2018

See inside for details

WWW.CIT.IE