



# CONTINUING EDUCATION

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Courses 2016 - 2017

**CIT** CORK  
INSTITUTE OF  
TECHNOLOGY  
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ

*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 2016-2017**

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

T: 021 433 5900



*CIT Bishoptown Campus*



*CIT Cork School of Music*



*CIT Crawford College of Art & Design*



*National Maritime College of Ireland*

## **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

Dear Student,

It gives me great pleasure as the President of CIT to introduce the Continuing Education Handbook for 2016/2017.

For CIT, Continuing Education and Continuing Professional Development are vital and growing areas of our total education provision. Continuing Education learners are an essential part of our Institution. We value their commitment to, and enthusiasm for their studies and we enjoy working with them.

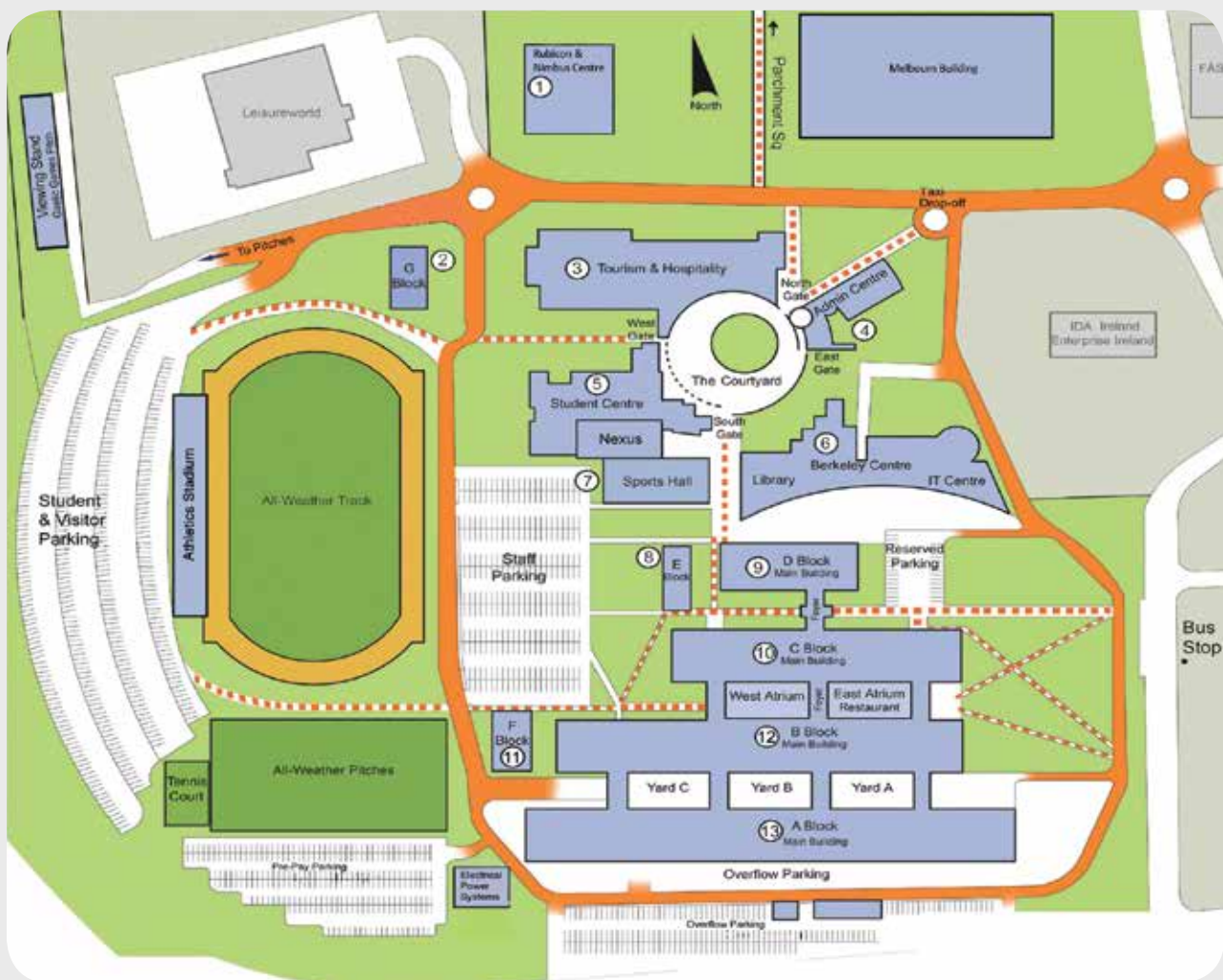
With the rapid changes in society, the workplace and technology, continuing education and professional development are now more essential than ever.

Here in CIT we provide an extensive range of courses with flexible modes of delivery that will allow you to continue the process of lifelong learning. I hope you will join us in 2016/2017.

**Dr Brendan J. Murphy**  
President

June 2016





**Bishopstown** Campus Map

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# 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](http://www.cit.ie))

**CIT Crawford College of Art & Design (CIT CCCAD)**  
Cork City ([www.cit.ie/ccad](http://www.cit.ie/ccad))

**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](http://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 10,500 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](http://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 2016 will take place from 6.00pm to 8.00pm on the following dates:

### Tuesday 6th September 2016

*CIT Bishopstown Campus*

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

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

**Media:** Media Production, Radio Broadcast Media, Journalism, E-learning, and Digital Media.

### Wednesday 7th September 2016

*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 8th September 2016

*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 & Design Education, Teaching Visual Arts for Primary & Early Years Education, Weekend Courses, and Short Courses (Life Drawing/Painting/Photography/Pottery/Stained Glass/Art Portfolio Preparation).

## Student Email System

[www.mycit.ie/howtostart](http://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](mailto:servicedesk@cit.ie)

## CIT Smart Card

[www.mycit.ie/itsupport.cit-smartcard](http://www.mycit.ie/itsupport.cit-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](mailto:citcard@cit.ie)

Opening hours: 8.30am – 1.00pm and 1.30pm – 4.30pm



## Money Matters

[www.cit.ie/prospectivestudents/eveningandweekendcourses/fees](http://www.cit.ie/prospectivestudents/eveningandweekendcourses/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](http://www.revenue.ie/en/tax/it/leaflets/it31.html)

### Fees

Details of course fees are included with the course information in this handbook. 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](http://www.cit.ie/pay)

Failure to pay fees on time will result in a late payment fee of 10% being applied.

- 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](mailto: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](http://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](mailto:admissions@cit.ie)

Download withdrawal form: [www.cit.ie/contentfiles/admissions/Withdrawal%20Form.pdf](http://www.cit.ie/contentfiles/admissions/Withdrawal%20Form.pdf)

## 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 2016/2017 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](mailto: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](http://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](http://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](mailto:exams@cit.ie) in early June – see also [www.mycit.ie/examinations](http://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. Students should familiarise themselves with the important documents which relate to examinations at CIT, available online at [www.mycit.ie/examinations/regulations/](http://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](http://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](http://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](mailto:dss@cit.ie), W: [www.cit.ie/disability](http://www.cit.ie/disability)

## Access Service

[www.cit.ie/access](http://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](mailto:deirdre.creedon@cit.ie)

## Disability Support Service

[www.mycit.ie/dss](http://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).

### Contact

Laura O'Rourke  
Disability Support Officer  
T: 021 433 5107 / 5137  
E: [dss@cit.ie](mailto:dss@cit.ie)

# The National Framework of Qualifications

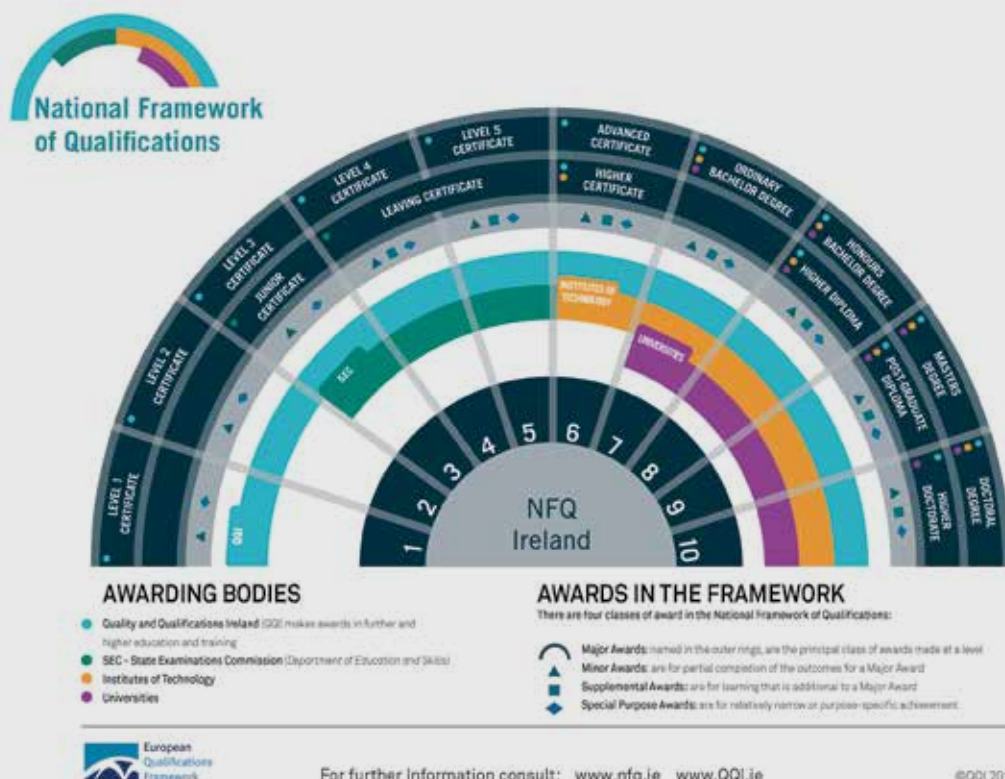
The National Framework of Qualifications (NFQ) provides a way to compare qualifications, and to ensure that they are quality assured and recognised at home and abroad. The Framework of Qualifications is an official national system for describing and linking all educational qualifications.

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](http://www.nfq.ie) and [www.qqi.ie](http://www.qqi.ie) as well as [www.cit.ie](http://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.



CIT Blackrock Castle Observatory

## 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.

Our modularised and semesterised approach offers a flexible and agile solution to programme development with a 'building blocks' credit accumulation approach. Our well established recognition of prior learning (RPL) service ensures that learning is built on and not repeated and our valuable experience in the development of specialised learning pathways in partnership with enterprises includes integration of work-based learning and e-supported learning where appropriate.

If you wish to discuss your organisation's current or future learning needs please contact CIT Extended Campus by E: [extendedcampus@cit.ie](mailto:extendedcampus@cit.ie) or T: 021 4335302

### 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

If you wish to arrange for a learning clinic in your organisation please contact CIT Extended Campus by T: 021 4335302 or E: [extendedcampus@cit.ie](mailto:extendedcampus@cit.ie)

### Recognition of Prior Learning

*"learning from life counts too"*

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.

#### How can RPL help me?

- RPL acknowledges the value of learning regardless of how or where it was gained
- It encourages access for 'non-traditional' students
- Eliminates unnecessary repetition
- Can shorten the time necessary to complete a qualification
- Encourages lifelong learning
- Enhances self-esteem of the learner

#### What do I have to do?

- Attend an RPL workshop session at the beginning of the semester
- Contact the appropriate Head of Department
- Contact the Course Coordinator
- In all instances (except advanced entry cases) you must register for the module(s) in advance of submitting your application.



## Important Notes

For your RPL claim to be progressed you must attend an information session and avail of the online supports.

There are strict timelines for the submission of RPL claims – applications received outside of these dates cannot be considered until the following semester.

### Note on Fees

While the module fee is payable on registration for the module, in the case of a successful prior formal learning application, an examination fee is held and the difference is refunded.

Information on the Recognition of Prior Learning Service is available at: [www.cit.ie/rpl](http://www.cit.ie/rpl)

## Springboard+

The Springboard initiative in higher education offers free courses at certificate, degree and masters level leading to qualifications in areas where there are employment opportunities in the economy.

If you are unemployed or seeking an opportunity to improve your career prospects you may be interested in a suite of courses which have been designed specifically for you under the Springboard initiative. These programmes will be free to eligible candidates and will allow you to retain your Jobseeker's Allowance or Jobseeker's Benefit while studying.

Applications for all programmes offered under the Springboard+ initiative are submitted online via [www.springboardcourses.ie](http://www.springboardcourses.ie)

Full details regarding the programmes and eligibility criteria are available on the Springboard website.





## General Information

[www.mycit.ie/\\_academic\\_information](http://www.mycit.ie/_academic_information)

### 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: 021 433 5036/5044

E: [admissions@cit.ie](mailto:admissions@cit.ie)

### Opening hours

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](mailto: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](mailto: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](http://www.mycit.ie/chaplaincy)

### Chaplain:

Fr Dave McAuliffe

T: 021 433 5754

E: [dave.mcauliffe@cit.ie](mailto:dave.mcauliffe@cit.ie)

### Coordinator of Pastoral Care:

Edel Kelly

T: 021 433 5756 /087 205 5595

E: [edel.kelly@cit.ie](mailto: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](http://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](http://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](http://www.cit.ie/alumni) to update your contact details or contact the CIT Alumni Office on 021 4326589 or by email [alumni@cit.ie](mailto: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](mailto: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](mailto: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, 6th September 2016, 6.00pm to 8.00pm. School of Business staff will be in attendance to offer career guidance and assistance.

<http://business.cit.ie>

# 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](mailto:opd@cit.ie)

Kathryn Carey  
Location: Room D143  
T: 021 433 5902  
E: [kathryn.carey@cit.ie](mailto: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 (Taught) (Level 9)

### Professional Accountancy Programmes

- Accounting Technicians Ireland
- Institute of Certified Public Accountants in Ireland (CPA)
- Chartered Institute of Management Accountants (CIMA)
- ACCA Diploma in Accounting & Business
- ACCA Programme (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.

### 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

# Bachelor of Arts in Human Resource Management

(Level 7)

Course Code **CR\_BHRMN\_7**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBHRMN7](http://www.cit.ie/course/CRBHRMN7)



### Duration & Delivery

Course commences Monday 12th September 2016.

#### 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  
HR Information Systems  
Organisational Behaviour  
Business Communications

#### Year 2 – Modules

Managing Information Statistics  
People Resourcing Skills  
Law (2 x 5 credit modules)  
Industrial Relations (2 x 5 credit modules)  
Current Issues in People Management  
Business Management Practices  
Diversity in the Workplace  
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)  
Management Report (2 x 5 credit modules)  
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

Dr Felix Raekson

T: 021 433 5906

E: felix.raekson@cit.ie



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBHRMN8](http://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, 13th September 2016.

## 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 Research Methods

Organisational Development

Business Finance

eHRM

Occupational Psychology (elective)

### Semester 2

Managing an International Workforce

Negotiation

Emerging Markets & Trends

Corporate Strategy Implementation

Concept Acquisition & Cognitive Learning (elective)

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



### Course Fee

€5,900

### Enquiries

Dr Deirdre O'Donovan

T: 021 433 5907

E: deirdre.odonovan@cit.ie

# CIPD

Approved centre

# Master of Arts in Human Resource Management

(Level 9)

Course Code **CR\_BHRMN\_9**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBHRMN9](http://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).

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 7th September 2016.

### 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 People

Training, Talent & Knowledge Management

#### Stage 2/Semester 1

Research Methods

Reward & Incentive Management

Performance Management

Sourcing & Testing

#### Stage 2/Semester 2

Research Dissertation (30 credits)

# Master of Business

(Level 9)

Course Code **CR\_BBUSA\_9**

## Course Fee

€5,900

## Enquiries

John Meyler

T: 021 433 5335

E: john.meyler@cit.ie



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBBUSA9](http://www.cit.ie/course/CRBBUSA9)

## Aim

The overall aim of this programme is to facilitate the further personal and intellectual development of students, encompassing the skills of analysis, interpretation and synthesis within their chosen field of knowledge. Participants will be required to adopt innovative and creative approaches to business related issues and analyse critically business and management problems in a national, international, and global context.

## 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

The following mandatory modules are common to all streams:

- Research Methods
- Services Marketing Management
- IT-Enabled Business
- Applied Corporate Strategy
- International Corporate Strategy
- Research Dissertation

Students may choose to specialise in one of the streams listed, or take a combination of two electives from one stream and one elective from another stream to graduate with a Master of Business. By taking three electives from the same stream, graduates will be conferred with a Master of Business in their stream of choice e.g., Master of Business in Enterprise & Innovation.

## Specialist Modules

### 1. Marketing Stream

Strategic Marketing Management, Contemporary Issues in Marketing, Applied Marketing Communications

### 2. Accounting Stream

Financial Accounting & Reporting, Strategic Management Accounting, Corporate Governance

### 3. Information Systems Stream

Enterprise Data Based Management, Data Communications and Networks, Information Systems Development

### 4. Enterprise & Innovation Stream

Innovation and Creativity, Enterprise Finance and Law, New Venture Management and Growth

### 5. Tourism Stream

Strategic Issues in Tourism, Tourism Business Development, Destination Marketing & Sales

## Duration & Delivery

- Two part-time academic years (4 semesters)
- Each semester is of 15 week duration (including examinations).
- Semester 1 commences on Wednesday, 7th September 2016 at 6.30pm 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 – Friday only

Stage 2/Semester 1 – Wednesday & Friday

Stage 2/Semester 2 – Research Dissertation

Time: Wed 6.30pm – 9.30pm; and Fri 3.30pm – 6pm.

## 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



# Accounting Technicians Ireland

Course Code **CR\_BIATI\_6**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBIATI6](http://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 13th September 2016.

## 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](http://www.accountingtechniciansireland.ie)

## Important Dates:

**Exemption Deadline:** Friday 3rd October 2016. Please note that applications for exemptions must be made directly to the Accounting Technicians Ireland. **Exam Registration Closing Date:** 10th February 2017 for May 2017 exams. **Registration as first time student with ATI:** By 31st October 2016. Contact Leda Egri at the Institute: T: 01 649 8180 E: [info@accountingtechnicians.ie](mailto:info@accountingtechnicians.ie) **Registration for second year students:** Second year students must register by 25th November 2016 for IAS examination in 2017.

# 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](http://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 Law and Governance

Auditing

### Professional 2 – Monday & Thursday

Strategy, Leadership & Knowledge Management (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 subjects.

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

## Institute Information

The Institute of Certified Public Accountants in Ireland

17 Harcourt Street

Dublin 2

T: 01 425 1000

[www.cpaireland.ie](http://www.cpaireland.ie)

## Registration with CPA

01 December 2016 for April 2017 Exams

01 June 2017 for August 2017 Exams

## Exam Registration Closing Date(s)

01 March 2017 for April 2017 Exams

01 August 2017 for August 2017 Exams

## Awarding Body

Institute of Certified Public Accountants in Ireland

## Commencement Date

September 2016

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:** Arron Feery T: 01 425 1021 E: [afeery@cpaireland.ie](mailto:afeery@cpaireland.ie)

**Registration for new students:** Ciara Murphy T: 01 425 1000

E: [cmurphy@cpaireland.ie](mailto:cmurphy@cpaireland.ie)

**Exemptions:** Lisa Feery T: 01 425 1023 E: [lfeery@cpaireland.ie](mailto: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 Blended Learning Programme
- CIMA Certificate in Business and Accounting
- CIMA Gateway



## Application

Apply by emailing [cima.ireland@cimaglobal.com](mailto:cima.ireland@cimaglobal.com)

## Course Fee

Payable to CIMA: €495 per subject, plus examination and exemption fees

## Enquiries

Ruth Vance T: 021 433 5512

E: [ruth.vance@cit.ie](mailto:ruth.vance@cit.ie) E: [cima@cit.ie](mailto:cima@cit.ie)

## CIMA Blended Learning Programme

Course Code **CR\_BBLRN\_9**

CIMA prepares students for a career in business, teaching skills for strategic advice, managing risk, and making key decisions. This programme integrates classroom and online elements to offer a more stimulating experience for students who can learn at their own pace and at a time that suits them. The syllabus and examinations are recognised by their relevance to business and their dedicated focus on developing the financial, non-financial and management skills required to sustain organisational success.

### Tuition will consist of:

- An initial 'kick-start' session where students will be introduced to their lecturers in CIT and given an introduction to, and study overview their chosen subject(s);
- CIMA Study Text and Exam Practice Kit content for chosen subject(s) which will be studied by students;
- Follow-on e-tutorial question and answer sessions between the student and their lecturer, dealing with queries that may have arisen during the previous two week study period;
- Three face-to-face revision sessions in CIT.

## Course Outline

A blended learning approach leads to a more stimulating experience for students, it ensures different learning styles are catered for and students can learn at their own pace and at times suitable to them.

- No need to buy any supplementary products;
- Flexibly manage your study time to suit you;
- Tutors will reinforce learning with practical examples and questions;
- Direct access to an online subject matter expert.

## Progression

CIMA Diploma in Management Accounting Graduates can progress to the CIMA Advanced Diploma in Management Accounting followed by Strategic Level and then Professional Competence Level to qualify as a CIMA member.

## 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 5512  
E: ruth.vance@cit.ie  
E: cima@cit.ie

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBBUACX](http://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 (Thursday 6pm – 8pm)  
2 x 8hr full day sessions (2 x Saturdays 9am – 4pm))  
1 x 2hr revision and QBR session (Thursday)

To register with CIMA, visit [www.cimaglobal.com/irelandregister](http://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](http://www.cimaglobal.com/findoutmore)

## 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 0434 E: [claire.lambert@cimaglobal.com](mailto:claire.lambert@cimaglobal.com) or E: [cima.ireland@cimaglobal.com](mailto:cima.ireland@cimaglobal.com)



### Course Fee

€1,500 (excludes examination fees)

### Enquiries

Martin O'Sullivan

T: 021 433 5904

E: martin.osullivan@cit.ie



# ACCA Diploma in Accounting & Business

Course Code **CR\_BACCB\_6**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBACCB6](http://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 6.30pm – 10.00pm & Wednesday 7.00pm – 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](http://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/applnow](http://www.accaglobal.com/applnow) 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](mailto:info@ie.accaglobal.com)

[www.accaglobal.com](http://www.accaglobal.com)

# ACCA Programme

(Level 9) (Full-time)

Course Code **CR\_BACCA\_9**

## Course Fee

€5,500

## Enquiries

Don Crowley

T: 021 433 5900

E: don.crowley@cit.ie



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBACCA9](http://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.

Following acceptance by CIT, successful applicants may register with ACCA before 5th September 2016 to avail of an early bird examination fee.

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 five 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 required to pay the following fees directly to ACCA: approx. £700 for exemptions, £75 registration fee, £100 fee per examination, and an annual subscription.

## Content

Subjects offered:

- P1 Governance Risk and Ethics
- P2 Corporate Reporting
- P3 Business Analysis
- P6 Advanced Taxation
- P7 Advanced Audit & Assurance

## Duration

One academic year.

## Commencement Date

September 2016 with examinations in December 2016, March 2017 and June 2017. Early registration is recommended as places are limited.

### Course Fee

€500

### Enquiries

Noreen Murphy

T: 021 433 5900

E: noreen.murphy@cit.ie

# Introductory Book-Keeping and Accounting

Course Code **CR\_BBACC\_6**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBBACC6](http://www.cit.ie/course/CRBBACC6) 

### Duration

10 weeks. This course will be offered twice during the 2016/2017 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 27th September 2016

Course 2: Tuesday 7th February 2017



# DEPARTMENT OF MANAGEMENT & ENTERPRISE

## Head of Department

Caroline O'Reilly

## Department Secretaries

Louise Byrne

Location: Room E1A

T: 021 433 5806

E: [louise.byrne@cit.ie](mailto: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.

### Course Fee

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

### Enquiries

Sheila Butler

T: 021 433 5806

E: sheila.butler@cit.ie

# Higher Certificate in Business (ACCS)

(Level 6)

Course Code **CR\_BBUSA\_6**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBBUSA6](http://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 Accounting.

## Commencement Date

Year 1 & Year 2: Monday 12th September 2016 at 6.30pm.

## Content

### Year 1 – Modules, all mandatory

Behavioural Science 1 & 2

Business Mathematics & Statistics 1 & 2

Microeconomics

Financial Accounting 1 & 2

An Introduction to Marketing

Communications

Creativity, Innovation & Teamwork

Information Technology

Public & Business Institutions

### Year 2 – Modules all mandatory

Decision Making

Cost & Management Accounting 1 & 2

Financial Accounting 3 & 4

Management 1 & 2

HRM Introduction

Macroeconomics

Marketing Strategy Principles

Irish Legal System

Aspects of Civil Law

The above module listing is currently under review. The most up to date information is available at [www.cit.ie/course/CRBBUSA6](http://www.cit.ie/course/CRBBUSA6). 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 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. 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

Y1: Martin O'Sullivan

T: 021 433 5904

E: martin.osullivan@cit.ie

Y2: Bernard Vallye

T: 021 433 5904

E: bernard.vallye@cit.ie



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBMNGT7](http://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. Honours Bachelor of Business.

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 Year 1 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 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.

## Course

The principle areas of study are:

### **Year 2 (Bridging Year) – Modules, all mandatory**

Economics (10 credits)

Management (10 credits)

Management Information Systems (5 credits)

Financial Accounting (5 credits)

Marketing (10 credits)

Behavioural Science (10 credits)

Business Law (5 credits)

Business Mathematics & Statistics (5 credits)

### **Year 3 (Award Year) – Modules, all mandatory**

Management Accounting (5 credits)

Strategic Management (5 credits)

Human Resource Management (5 credits)

Organisational Behaviour (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)

The above module listing is currently under review. The most up to date information is available at [www.cit.ie/course/CRBMNGT7](http://www.cit.ie/course/CRBMNGT7).

## Award

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

## Commencement Dates

Year 1 – Monday 12th September 2016 at 6pm.

Year 2 – Tuesday 13th September 2016 at 6pm.



### Course Fee

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

### Enquiries

John Meyler

T: 021 433 5335

E: john.meyler@cit.ie

# Bachelor of Business (Honours) (ACCS)

(Level 8)

Course Code **CR\_BBUSN\_8**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBBUSN8](http://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 Management 1

Strategic Management 2

Financial Management 1

Financial Management 2

Business Ethics

The Business Environment

#### **Electives (choose 6) – each module carries 5 credits**

Business Marketing Environment

Business Marketing

Workforce Diversity

International HRM

Decision Support Systems

MIS Strategy and Planning

Strategic Management Accounting 1

Strategic Management Accounting 2

Entrepreneurship

The module listing is currently under review. The most up to date information is available at [www.cit.ie/course/CRBBUSN8](http://www.cit.ie/course/CRBBUSN8).

### 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.

### 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 12th September 2016 at 6.30pm.

# DEPARTMENT OF ACCOUNTING & INFORMATION SYSTEMS

**Head of Department**  
Catherine Murphy

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

## COURSES

- Bachelor of Business in Accounting (Level 7)
- Bachelor of Business (Honours) in Accounting (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.

### Course Fee

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

### Enquiries

Noreen Murphy

T: 021 433 5920

E: noreen.murphy@cit.ie

# Bachelor of Business in Accounting (ACCS)

(Level 7)

Course Code **CR\_BACCE\_7**



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBACCE7](http://www.cit.ie/course/CRBACCE7)

### Duration & Delivery

1 year: three nights per week, 6.00pm – 10.00pm

### 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.

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

### Admission Requirements

#### Directly to Semester 1

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

#### Bridging Studies

Graduates of the Institute of Accounting Technicians in Ireland or equivalent.

### Award

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

### Progression

Graduates of this degree who obtain an average of 50% or more would be eligible to progress to the Level 8 Bachelor of Business (Honours) in Accounting or Bachelor of Business (Honours).

### Commencement Date

Semester 1: Tuesday 20th September 2016 at 6.00pm.

### Content

#### Semester 1 – Modules, all mandatory

Advanced Financial Accounting 1

Advanced Management Accounting 1

Financial Management 1

Management Information Systems 1

Auditing 1

Income Tax

#### Semester 2 – Modules, all mandatory

Advanced Financial Accounting 2

Advanced Management Accounting 2

Financial Management 2

Management Information Systems 2

Auditing 2

Corporation Tax, Capital Gains Tax

#### Bridging Studies – Modules subject to demand

Introduction to Marketing

Microeconomics

Macroeconomics

Behavioural Science 1 & 2

Business Maths and Stats 1

### 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.

# 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

AnnMarie O'Donoghue

T: 021 433 5920

E: annmarie.odonoghue@cit.ie



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBACCE8](http://www.cit.ie/course/CRBACCE8)

## Duration & Delivery

Delivery over four semesters commencing June 2016 and finishing August 2017. Summer terms involve one night per week plus two additional sessions over a ten week period. Academic semester involves two nights per week Monday & Wednesday 6pm – 10pm.

## 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

Bachelor of Business in Accounting (Level 7) with a minimum average mark of 50%; or 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.

## 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

Monday 19th September 2016 at 6pm.

## Content

The principal areas of study are:

- Strategic Management
- Advanced Financial Management
- Strategic Management Accounting
- Financial Reporting
- IT Auditing
- Taxation
- Corporate Governance

## 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.

# DEPARTMENT OF MARKETING & INTERNATIONAL BUSINESS

**Head of Department**  
Dr Pio Fenton

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

## COURSES

- Certificate in Digital Marketing  
(Level 8)
- Higher Diploma in Business in Sales  
Management (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.

# Certificate in Digital Marketing

(Level 8) (20 ECTS Credits)  
Course Code **CR\_BDMRK\_8**

## Course Fee

€1,500

## Enquiries

Dr Pio Fenton  
T: 021 433 5922  
E: pio.fenton@cit.ie



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBDMRK8](http://www.cit.ie/course/CRBDMRK8)

## Duration & Delivery

3 full Saturdays and 12 Tuesday evenings over a 15 week period. Course commences on 10th September 2016 (with likely second intake in February 2017).

## 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. Participants will explore how to integrate add-ons such as PayPal and social media content with a view to optimising the website from a usability search engine optimisation perspective.
- **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.



### Course Fee

€3,950

### Enquiries

Dr Pio Fenton

T: 021 433 5922

E: pio.fenton@cit.ie

# Higher Diploma in Business in Sales Management

(Level 8) (60 ECTS Credits)  
Course Code **CR\_ BSMGT\_8**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBSMGT8](http://www.cit.ie/course/CRBSMGT8)



## Duration & Delivery

### Stage 1/Semester 1 & 2

5 Saturdays 9am to 6pm

12 Wednesdays 6.30pm to 9.30pm

### Stage 2/Semester 1

In-work activity with supervision

## 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.

## Overview

The Higher Diploma in Business in Sales Management (Executive) 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 blended 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)

## Commencement Date

28th September 2016.



# SCHOOL OF HUMANITIES

## **Head of School**

Dr Margaret Linehan

**The School consists of the following Departments:**

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

Information evening for continuing education courses for the School of Humanities will take place at the CIT Bishopstown Campus on Tuesday, 6th September 2016, 6.00pm to 8.00pm. School of Humanities staff will be in attendance to offer career guidance and assistance.

**[www.cit.ie](http://www.cit.ie)**

# 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](mailto: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)

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**

## Application

Request an application form by E: [helen.dillon@cit.ie](mailto:helen.dillon@cit.ie)

## Course Fee

€1,975

## Enquiries

Gus Murray T: 021 434 7800 E: [gus.murray@cit.ie](mailto:gus.murray@cit.ie)

Úna Coakley M: 087 669 1584 E: [ucoakley@yahoo.co.uk](mailto:ucoakley@yahoo.co.uk)



**Course & Module Information, visit [www.cit.ie/course/HCOUI6](http://www.cit.ie/course/HCOUI6)**

## 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](http://www.cit.ie/course/CRHCOUI6) and should be returned to Gus Murray, Department of Applied Social Studies, Cork Institute of Technology, Bishopstown, Cork on or before Friday, 5th August 2016. 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.**

## Application

Request an application form by E: [helen.dillon@cit.ie](mailto:helen.dillon@cit.ie)

## Course Fee

€2,125

## Enquiries

Gus Murray T: 021 434 7800 E: [gus.murray@cit.ie](mailto:gus.murray@cit.ie)

Úna Coakley M: 087 669 1584 E: [ucoakley@yahoo.co.uk](mailto:ucoakley@yahoo.co.uk)

# Higher Certificate in Arts in Counselling Skills

(Level 6)

Course Code **CR\_HCOUN\_6**

Course & Module Information, visit [www.cit.ie/course/HCOUN6](http://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.

**Garda Vetting:** All applicants who enrol will be required to undergo Garda vetting. Visit [www.cit.ie/gardavetting](http://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](http://www.cit.ie/course/HCOUN6) and should be returned to Gus Murray, 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, 6th May 2016.

## 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**

## Application

Request an application form by E: [helen.dillon@cit.ie](mailto:helen.dillon@cit.ie)

## Course Fee

Year 3: €2,925 • Year 4: €2,925

## Enquiries

Gus Murray T: 021 434 7800 E: [gus.murray@cit.ie](mailto:gus.murray@cit.ie)

Úna Coakley M: 087 669 1584 E: [ucoakley@yahoo.co.uk](mailto:ucoakley@yahoo.co.uk)



**Course & Module Information, visit [www.cit.ie/course/HCOUN8](http://www.cit.ie/course/HCOUN8)**

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 the College. 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.

**Garda Vetting:** All applicants who enrol will be required to undergo Garda vetting. Visit [www.cit.ie/gardavetting](http://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](http://www.cit.ie/course/HCOUN8) and should be returned to Gus Murray, 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, 6th May 2016.

### 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**

## Application

Request an application form by E: [helen.dillon@cit.ie](mailto:helen.dillon@cit.ie)

## Course Fee

€3,500.

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

## Enquiries

Gus Murray T: 021 434 7800 E: [gus.murray@cit.ie](mailto:gus.murray@cit.ie)

Úna Coakley M: 087 669 1584 E: [ucoakley@yahoo.co.uk](mailto:ucoakley@yahoo.co.uk)



**Course & Module Information, visit [www.cit.ie/course/HINTP9](http://www.cit.ie/course/HINTP9)**

**This programme is run over a two year cycle (next intake is September 2017). The administrative details in this handbook refer to the 2014-15 academic year. These will be updated in due course in preparation for the 2017 intake.**

## Aim

The programme aims to equip practitioners with the advanced knowledge and clinical capability that would match international standards of best practice within the Psychotherapy profession.

**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. 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 Practitioner dissertation. During this year they will also carry out their Mental Health Placement.

## Admission Requirements

Applicants must

- Have successfully completed the Bachelor of Arts (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 completed 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](http://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.

**Garda Vetting:** All applicants who enrol will be required to undergo Garda vetting. Visit [www.cit.ie/gardavetting](http://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).

### Application

Request an application form by E: [jim.walsh@cit.ie](mailto:jim.walsh@cit.ie)

### Course Fee

€6,900

### Enquiries

Jim Walsh

T: 021 433 5312 E: [jim.walsh@cit.ie](mailto:jim.walsh@cit.ie)

# Master of Arts in Play Therapy

(Level 9)

Course Code **CR\_HPLTH\_9**

Course & Module Information, visit [www.cit.ie/course/HPLTH9](http://www.cit.ie/course/HPLTH9)



### 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 successful candidates who complete a module in research skills and a dissertation.

### Content

[www.cit.ie/course/CRHPLTH9](http://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.

### Award

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

# DEPARTMENT OF TOURISM & HOSPITALITY

## Head of Department

Adrian Gregan

## Department Secretary

Geraldine McCarthy

Location: Room G2.13

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\*
- National Traineeship in Professional Cookery (Day Release Programme)\*
- Bakery & Pastry
- Pastry: Modern & Classical
- Introduction to Management for Hospitality Services
- Professional Bar Operations
- The Art of Mixology & Cocktail Making
- Food, Photography & Styling

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](http://www.cit.ie/th)

### Course Fee

CIT Fee €3,000 (Fáilte Ireland supported premises)  
€5,000 (where a participant is not in full-time  
employment in a Fáilte Ireland supported premises)

### Enquiries

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

# Bachelor of Arts in Culinary Arts

(Level 7)

Course Code **CR\_OCULP\_7\_Y3**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CROCULP7](http://www.cit.ie/course/CROCULP7)



### Admission Requirements

- Selection for this course will also be based on an interview to be held in Cork Institute of Technology
- 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
- 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](http://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.

This programme is supported by Fáilte Ireland.



**Fáilte Ireland**

National Tourism Development Authority

### 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

CIT Fee €3,000.

In addition, approx. €600 for necessary uniforms, knives, and small equipment. Payment of fees is on registration.

## Enquiries

Ann O'Connor

T: 021 433 5839 E: [ann.oconnor@cit.ie](mailto:ann.oconnor@cit.ie)

E: [hospitality@cit.ie](mailto:hospitality@cit.ie)



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRFALPR6Y1](http://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).

This programme is supported by Fáilte Ireland.



**Fáilte Ireland**

National Tourism Development Authority

## 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



### Course Fee

CIT Fee €1,750

The course fee is fully supported by Fáilte Ireland for participants who are deemed to represent tourism premises.

### Enquiries

Geraldine McCarthy

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

# National Traineeship in Professional Cookery (Day Release Programme)

(Level 6)

Course Code **CR\_FCHEF\_6\_Y1**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRFCHEF6](http://www.cit.ie/course/CRFCHEF6)



### Admission Requirements

- Participants must be currently in full-time employment and have a minimum of 6 months professional cookery experience within that establishment where their employer is committed to facilitating their further training.
- This course operates on the basis of mentor direction i.e. participating employers are required to provide a mentor/trainer who is a member of the culinary staff and who has successfully completed an accredited trainer course;
- Entry to this course will also be based on interview to be held in Cork Institute of Technology early to mid-June.

### To Apply

**Participant:** Online application for this programme opens annually in February for commencement in September. Closing date for applications is the end of May. Late applications will be considered up until the end of August, subject to availability of places.

**Employer:** Establishments wishing to operate this course and nominate an employee must be registered with Fáilte Ireland. Visit [www.cit.ie/course/CRFCHEF6](http://www.cit.ie/course/CRFCHEF6) and click on the 'Apply Tab' to receive an Application Reference Number, please download the following two forms

1. Registration of Establishment
2. Code of Practice

and return to: Geraldine McCarthy, Department of Tourism & Hospitality, Cork Institute of Technology, Bishopstown, Cork.

### Aim

This course focuses on developing professional qualifications for people who are working in the field of professional cookery, but

have not previously gained a Professional Cookery qualification.

Benefits of this course for the participant:

- Gain an internationally recognised qualification in your chosen field of study;
- Enrich your job immediately as you acquire more skills and secure a better future within the industry.

### Duration & Delivery

2 Years Day Release.

The Traineeship in Professional Cookery is a day release course with attendance at CIT and on-the-job training in a recognised catering business over a 2-year period.

### Employer Commitment is Vital

Participating employers play a crucial role in the operation of the course by contributing to the development of the learner's progress through following a course of directive learning and by abiding by a specific code of practice developed for the course.

**Note:** In September of each year, some full-time attendance is required on the course.

### Award

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

This programme is supported by Fáilte Ireland.



**Fáilte Ireland**

National Tourism Development Authority

### Course Content

#### 12 Modules

Culinary Skills & Standards

Food Safety & Nutrition

Gastronomy

Pastry

Pastry, Baking & Desserts

Larder

Food Science & Technology

International Cuisine

Information Technology

Menu Planning & Applied Nutrition

Personal Effectiveness

Meal Service

# Bakery & Pastry

(Level 6)

Course Code **CR\_FPASB\_6**

## Course Fee

€500 (includes exam fee).

In addition, a €60 fee for the necessary work uniform is required.

## Enquiries

Catherine O'Mahony

T: 021 433 5842

E: [hospitality@cit.ie](mailto:hospitality@cit.ie)



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRFPASB6](http://www.cit.ie/course/CRFPASB6)**

## Module Code

HOSP6043

## 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 2016 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](mailto:hospitality@cit.ie)). Online application for this programme opens annually in February for commencement in September. Closing date for application is 8th 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.



### Course Fee

€500 (includes exam fee).

In addition, a €60 fee for the necessary work uniform is required.

### Enquiries

Catherine O'Mahony

T: 021 433 5842

E: [hospitality@cit.ie](mailto:hospitality@cit.ie)

# Pastry: Modern & Classical

(Level 6)

Course Code **CR\_FPTSG\_6**

**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRFPTSG6](http://www.cit.ie/course/CRFPTSG6)**



### Module Code

HOSP7001

### 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 2017 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](mailto:hospitality@cit.ie)). Online application opens in September 2016 and closes in December 2016. 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).



# Introduction to Management for Hospitality 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](http://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 2016 and will operate one evening per week over the semester.

## Apply

Apply online or by application form (available by email [hospitality@cit.ie](mailto: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.

## Course Fee

€400

## Enquiries

Gail Cotter

T: 021 433 5835

E: gail.cotter@cit.ie

# Professional Bar Operations

(Level 6)

Course Code **CR\_OBARR\_6**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CROBARR6](http://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 e.g. MICROS
- 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](mailto: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 **CR\_FAMCM\_6**

**Course Fee**

€450

**Enquiries**

Gail Cotter

T: 021 433 5835

E: [gail.cotter@cit.ie](mailto:gail.cotter@cit.ie)



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRFAMCM6](http://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](mailto: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.



### Course Fee

€450

### Enquiries

Geraldine McCarthy

T: 021 433 5820

E: geraldine.mccarthy@cit.ie

# Food, Photography & Styling

(Level 7)

Course Code **CR\_FTCXX\_7**

**Course & Module Information, and to apply online, visit** [www.cit.ie/course/CRFTCXX7](http://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](mailto: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 & ENVIRONMENTAL 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 & Environmental Engineering will take place at the CIT Bishopstown Campus on Wednesday 7th September 2016, 6.00pm to 8.00pm. Staff will be in attendance to offer career guidance and assistance.

**[www.cit.ie](http://www.cit.ie)**

# DEPARTMENT OF ARCHITECTURE

## Head of Department

Katherine Keane

## Department Secretary

Carmel Collins

Location: Room A223L

T: 021 433 5950

E: carmel.collins@cit.ie

# COURSES

- Master of Science in Interior Architecture
- Master of Science in Architectural Technical Design

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.

<http://architecture.cit.ie>

# 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](http://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 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

Option 1: 2 Years

Option 2: 3 Years

## 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 2/Semester 1

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).

**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

# Master of Science in Architectural Technical Design

(Level 9)

Course Code **CR\_CARCT\_9**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRCARCT9](http://www.cit.ie/course/CRCARCT9)



## Aim

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

Option 1: 2 Years  
Option 2: 3 Years

## 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 2/Semester 1

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).

# 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 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)
- 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
- 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](http://www.engineersireland.ie)

**[www.cit.ie/cse](http://www.cit.ie/cse)**

### Course Fee

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

### Enquiries

Des Walsh

E: [des.walsh@cit.ie](mailto:des.walsh@cit.ie)

# Higher Certificate in Engineering in Civil Engineering

(Level 6)

Course Code **CR\_CCIVE\_6**



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRCCIVE6](http://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 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 (NFQ Level 7).

# Bachelor of Engineering in Civil Engineering

(Level 7)

Course Code **CR\_CCIVE\_7**

## Application

Apply online at [www.cit.ie/course/CRCCIVE\\_7](http://www.cit.ie/course/CRCCIVE_7)

## Course Fee

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

## Enquiries

Des Walsh E: [des.walsh@cit.ie](mailto: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](http://www.cit.ie/course/CRCENVI_7)

## Course Fee

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

## Enquiries

Des Walsh E: [des.walsh@cit.ie](mailto: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](http://www.cit.ie/course/CRCCIVE7)
- 2) Environmental Engineering: [www.cit.ie/course/CRCENVI7](http://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).



### 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

# Certificate in Building Information Modelling Technologies

(Level 7)

Course Code **CR\_CBIMG\_7**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRCBIMG7](http://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](http://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

It is proposed, subject to CIT QA approval, that the course will consist of two mandatory modules and one of two elective modules to delivered over a single semester:

#### Mandatory Modules

Collaborative BIM 1  
Collaborative BIM 2

#### Elective Modules (choose one)

Introduction to Geographic Information Science  
3D Built Environment Modelling

Through interaction with the CIT Careers Service, the learner will be provided with the tools to engage in effective Career Planning and Management. Careers education will be facilitated through tailored employability workshops, one-to-one support, relevant career resources and, networking opportunities with employers and recruitment agencies, thus leading to increased job readiness.

### 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](mailto:fees@cit.ie)

## Enquiries

Denise Barnett

T: 021 432 6766 E: [denise.barnett@cit.ie](mailto:denise.barnett@cit.ie)

Carmel Collins

T: 021 433 5950 E: [carmel.collins@cit.ie](mailto:carmel.collins@cit.ie)



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CREENEN7](http://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 two days per week in each semester.** 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](http://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.

A mathematics module is also 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.

## 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).

### 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

# Certificate in Environmental and Energy Engineering

(Level 8)

Course Code **CR\_EENEN\_8**



Course & Module Information, and to apply online, visit [www.cit.ie/course/CREENEN8](http://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 two days per week in both semesters.** 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](http://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 student 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).

# 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](http://www.cit.ie/course/CRCSTRU9)

## Enquiries

John Justin Murphy

T: 021 432 6741 E: [johnjustin.murphy@cit.ie](mailto: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](http://www.cit.ie/course/CRCENEN9)

## Enquiries

Leonard O'Driscoll

T: 021 432 6563 E: [leonard.odriscoll@cit.ie](mailto: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 for 2016/2017 and 2017/2018, recommended textbooks, average weekly workload, assessments, and exams.

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

### Course Fee

€595

(includes course notes/exam and assessment fees)

### Enquiries

Andrew Macilwriath

T: 021 433 5950

E: andrew.macwriath@cit.ie

# Building Regulatory Engineering

(online delivery available)

(Level 8)

Course Code **CR\_CBREG\_8**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBREG8](http://www.cit.ie/course/CRBREG8)



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 now include CE marking of materials in accordance with the new Construction Products Regulations which came into effect July 2014. A 3rd area that has been added to this short course is the new 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).



# 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](http://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 subject, 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).



**Course Fee**  
€600

**Enquiries**

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

# Digital Land Surveying & GPS

(Level 7)

Course Code **CR\_CDLSU\_7**

**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRCDSL7](http://www.cit.ie/course/CRCDSL7)**



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.

The successful completion of the course will lead to CIT single module certification in Digital Land Surveying and GPS (5 ECTS credits at Level 7 on the National Framework of Qualifications).

Having completed this subject, 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 (5 ECTS credits at Level 7 on the National Framework of Qualifications).



# DEPARTMENT OF CONSTRUCTION

## Head of Department

Dr Daniel Cahill

## Department Secretary

Carmel Collins

Location: Room A223cL

T: 021 433 5950

E: carmel.collins@cit.ie

# COURSES

- Master of Science in Construction Project Management (Level 9)
- Bachelor of Science in Construction Management (Level 7)
- Bachelor of Science in Quantity Surveying (Level 7)
- Higher Certificate in Science in Construction (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.

**Course Fee**  
€5,000

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

# Master of Science in Construction Project Management

(Level 9)  
Course Code **CR\_CCOPM\_9**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRCCOPM9](http://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 Cork Institute of Technology ([www.cit.ie/rpl](http://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.

Students may take modules on a phased basis and achieve the programme qualification over a number of academic years.

## 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.

# 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](http://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](http://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.

### Course Fee

€220 per 5 credit module (inc. exam fee)

### Enquiries

Carmel Collins

T: 021 433 5950

E: carmel.collins@cit.ie

# Bachelor of Science in Construction Management

(Level 7)

Course Code **CR\_CCMNE\_7**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRCCMNE7](http://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](http://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/CRCCECE7](http://www.cit.ie/course/CRCCECE7)

## 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](http://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 7th September 2016, 6.00pm to 8.00pm. Staff will be in attendance to offer career guidance and assistance.

**[www.cit.ie](http://www.cit.ie)**

# DEPARTMENT OF MECHANICAL, BIOMEDICAL & MANUFACTURING ENGINEERING

## Head of Department

Dr Gerard Kelly

## Department Secretary

Deirdre Burke

Location: Room A285L

T: 021 432 6505

E: [deirdre.burke@cit.ie](mailto: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 77

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.



**Course Fee**  
€7,000

**Enquiries**

Dr Gerard Kelly  
T: 021 433 5438  
E: ger.kelly@cit.ie

# Master of Engineering in Mechanical Engineering

(Level 9)

Course Code **CR\_EMENG\_9**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CREMENG9](http://www.cit.ie/course/CREMENG9)



## Aim

The programme has been developed to address the need for both new graduates and existing engineers to acquire 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 2/Semester 1

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](mailto:tony.kelly@cit.ie)



Course & Module Information, and to apply online, visit [www.cit.ie/course/CREMECN7](http://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 2016/17 academic year:

### Semester 1

Modules (September to December 2016)

#### • 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.

1. Design PLC controlled systems, to performance specifications, using standard software for electro-pneumatic systems.
2. Use an HMI to interact with a control system.

### Semester 2

Modules (January to May 2017)

#### • 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.

## Course Fee

€1,200 for the academic year (incl. exam fee)

## Enquiries

Dan O'Brien

T: 021 433 5425

E: dan.obrien@cit.ie

# Mechanical Engineering Science

Course Code **CR\_EMSCI\_6**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CREMSCI6](http://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 graphical method/method of joints/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

Ger Kelly

T: 021 4326505

E: Ger.Kelly@cit.ie



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRECADM6](http://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).

# CENTRE FOR ADVANCED MANUFACTURING AND MANAGEMENT SYSTEMS (CAMMS)



T: 021 432 6264  
E: [camms@cit.ie](mailto:camms@cit.ie) | [www.camms.ie](http://www.camms.ie)

## **CAMMS Head**

Daithí Fallon

## **CAMMS Manager**

Mike McGrath

CAMMS is attached to the Department of Mechanical, Biomedical and Manufacturing Engineering at CIT. The Centre uses the design, build, test, and validate expertise of the Department in solving problems for industry and in delivering up to date training and education for professionals.

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 students taking the American Society for Quality (ASQ) and Society of Manufacturing Engineers (SME) professional exams and also serves as an official Exam Site for these bodies.

CAMMS is currently delivering thematic knowledge areas that reflect the strengths of the Faculty.

### **Course themes include:**

- Quality, Lean Sigma
- Project Management
- Automation & Control
- Manufacturing Engineering
- Sustainable Energy
- Biomedical Engineering
- Advanced Mechatronics (Part II)

New programmes are under development and will be offered from September 2016 in the following areas:

- Building Energy Systems
- Regulatory Affairs

Please refer to [www.camms.ie](http://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.

***"A client specific Materials Science course was delivered over six, two hour sessions on site for a major biomedical multinational company. Theoretical fundamentals were developed, explored and applied to practical, real world engineering examples. Several hours of project mentoring between the CIT consultant and company engineers took place. Discussion and review of the application of the lecture series content to the specific in-house project was the main aim of this mentoring period."***

Dr Andrew Cashman, Department of Mechanical, Biomedical and Manufacturing Engineering



# COURSES

- 1.0 American Society for Quality Certification Programmes (ASQ)
  - Certified Quality Technician (CQT)
  - Certified Quality Engineer (CQE)
- 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
  - 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
    - 4.2.1 Advanced Mechatronics Part 1
    - 4.2.2 Advanced Mechatronics Part 2
- 5.0 Society of Manufacturing Engineers Certification Programmes (SME)
  - 5.1 Certified Manufacturing Technologist (CMfgT)
  - 5.2 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

## Application

Please email [camms@cit.ie](mailto:camms@cit.ie) for further information.

## Course Fee

Price will vary on specific company needs.

## Enquiries

T: 021 432 6264

E: [camms@cit.ie](mailto:camms@cit.ie) W: [www.camms.ie](http://www.camms.ie)



# 1.0 American Society for Quality Certification Programmes

Course Code  
**CR\_ECQTE\_6 / CR\_ECQEN\_6**

Course information, visit [www.cit.ie/course/CRECQTE6](http://www.cit.ie/course/CRECQTE6) and [www.cit.ie/course/ECQEN\\_6](http://www.cit.ie/course/ECQEN_6)



### The Certification programmes on offer are:

Certified Quality Technician (CQT)

Certified Quality Engineer (CQE)

**Please note that these courses are ONLY available to groups of 10 or more.**

They are preparatory courses for professional exams set externally by the ASQ (American Society for Quality) which has more than 100,000 members worldwide. The society is dedicated to the advancement of learning, quality improvement and knowledge exchange.

### Content

Each candidate must pass a multiple-choice examination based on the Body of Knowledge for each certification programme.

Some of the topics included are:

- Probability and Statistics
- Statistical Process Control
- Process Capability
- Design of Experiments
- Metrology, Inspection and Testing
- Quality Planning, Management and Product Liability
- Quality Costs Analysis
- FMEA, Design and Analysis
- Reliability, Maintainability and Product Safety
- Project Management
- Lean Enterprise

For individual examination entry requirements and Body of Knowledge, see [www.asq.org/certification/](http://www.asq.org/certification/)

### Admission Requirements

A candidate must have relevant experience/education and satisfy the membership requirements of the ASQ. There are separate entry requirements and separate examinations for each certification.

### Awarding Body

American Society for Quality (ASQ)

(Examination fees are payable to the ASQ).



# 2.0 Lean & Six Sigma Programmes

## 2.1 Introduction to Lean & Six Sigma

Course Code **CR\_EILSS\_X**

Course Fee  
€325

Enquiries  
T: 021 432 6264  
E: camms@cit.ie  
W: www.camms.ie



Course Information, and to apply online, visit [www.cit.ie/course/CREILSSX](http://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.

The course allows participants to select between Lean or Six Sigma, for their own future development and/or as the most appropriate method for their company. Participants have the option of applying for either the Lean Sigma Practitioner, Yellow Belt Programme or the Lean Sigma Green Belt Certification Programme.

**Note:** Introduction to Lean/Lean Sigma is not a pre-requisite to attending the Lean Sigma Yellow Belt, Lean Sigma Green Belt or Lean Sigma Black 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

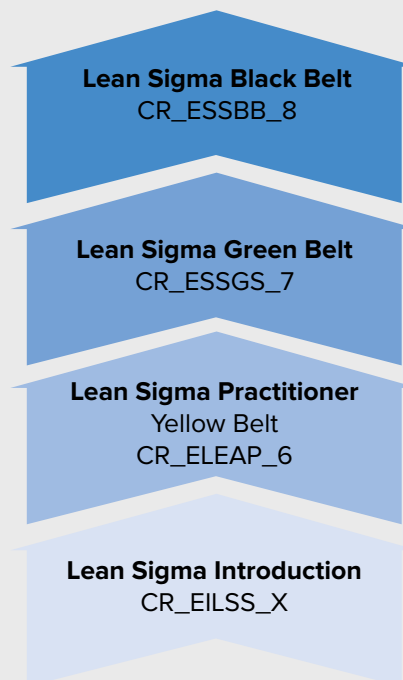
Two full-time days.

### 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.



### Course Fee

€995\* (includes course notes and exam fees)

### Enquiries

T: 021 432 6264

E: [camms@cit.ie](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



## 2.2 Lean Sigma Practitioner, Yellow Belt

Course Code **CR\_ELEAP\_6**

Course Information, and to apply online, visit [www.cit.ie/course/CRELEAP6](http://www.cit.ie/course/CRELEAP6)



Candidates pursuing the Lean Sigma Practitioner, Yellow Belt Programme will be capable of applying lean principles and tools to drive improvements and show measurable results. The programme will consist of assessment of theory by examination, as well as assessment of practice by portfolio. The portfolio is based on the achievement of certain project milestones by candidates, as defined by the programme requirements at each level.

### Content

- Introduction to Lean principles
- Tools for finding and eliminating waste
- Tools for continuous improvement
- Improving quality, cost, delivery, business and service processes, and business results

### Admission Requirements

Candidates must have a total of 4 years of combined industrial experience, Lean experience and academic study.

### Commencement

3rd October 2016

30th January 2017

4th April 2017

### Duration

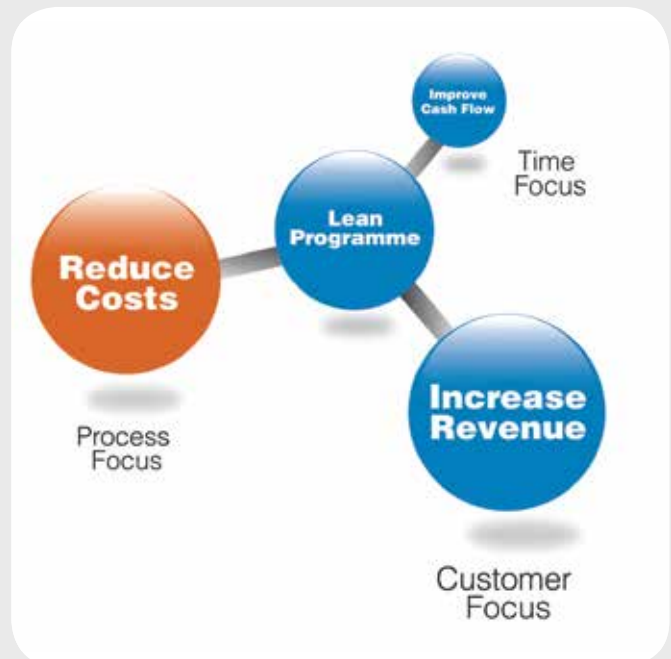
Five days over three months.

### Awarding Body

CIT: 5 ECTS credits at Level 6 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 two or more.



## 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](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



Course Information, and to apply online, visit [www.cit.ie/course/CRELSGB7](http://www.cit.ie/course/CRELSGB7)

Lean Sigma is a very successful methodology for Productivity and Continuous Improvement. It uses a structured approach known as DMAIC (Define, Measure, Analyse, Improve, and Control) to eliminate business process waste, reduce variation and improve efficiency. It is being successfully deployed across many sectors and in companies of all sizes in the pharmaceutical, healthcare, medical device, financial and service sectors. This course provides a structured approach to solving problems and putting a sustaining mechanism in place to ensure problems do not re-occur.

### 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

Candidates should have at least three years' experience in a suitable working environment. The course is aimed at 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 & 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

CIT: 15 ECTS credits at Level 7 on the National Framework of Qualifications.

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 available for groups of three or more.

### Course Fee

€8,500\* (includes course notes and exam fees)

### Enquiries

T: 021 432 6264

E: [camms@cit.ie](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



## 2.4 Lean Sigma Black Belt

Special Purpose Award – 30 ECTS  
Credits at Level 8  
Course Code **CR\_ESSBB\_8**

Course Information, and to apply online, visit [www.cit.ie/course/CRESSBB8](http://www.cit.ie/course/CRESSBB8)



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 should 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 model 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 including DOE (Design of Experiments) and SPC (Statistical Process Control).

### 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

Throughout their training, and until the completion of their projects, Lean Sigma Black Belt students will receive support and mentoring from their tutor.

### Admission Requirements

A demonstration of several years' work experience in a technical role in manufacturing or a service industry is required. A grounding in Lean or Lean Sigma principles is desirable.

### Duration & Delivery

21 full days over six months.

### Awarding Body

CIT: 30 ECTS credits at Level 8 on the National Framework of Qualifications.

Candidates who complete the Lean Sigma Black Belt Programme are encouraged to sit the American Society for Quality (ASQ) Lean Sigma Black Belt exam (Examination fees payable directly to the ASQ). The ASQ Lean Sigma Black Belt requires two completed projects with signed affidavits or one completed project with signed affidavit and three years of work experience in one or more areas of the Lean Sigma Body of Knowledge.

**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.

## 2.5 Continuous Improvement for Production Teams

(Company based training)  
Course Code **CR\_ECIPT\_X**

### Application

Please email [camms@cit.ie](mailto:camms@cit.ie) for further information.

### Course Fee

Price will vary on specific company needs.

### Enquiries

T: 021 432 6264

E: [camms@cit.ie](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



Course Information, visit [www.cit.ie/course/CRECIPTX](http://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](http://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 projects** 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 HETAC (now QQI) 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 Diploma in Project Management is applicable to all industrial sectors (not just technical projects).

The Diploma 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 Diploma 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 Diploma 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. A

Special Purpose Award in Project Management at Level 8, will be issued to all successful candidates.

#### Duration & Delivery

Attendance is 15 full-time days, consisting of one weekend per month (Friday and Saturday), delivered over 8 months. The Diploma 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

CIT: 15 ECTS credits at Level 8 on the National Framework of Qualifications. Students who complete all three modules, will be entitled to a Diploma in Project Management (Special Purpose Award– 15 ECTS Credits at Level 8 NFQ).

**Project Management Institute (PMI):** Project Management Professional (on successful completion of PMI exam). 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. This represents a significant financial and time saving to students in terms of contributing to earning the 60PDUs to maintain your PMI 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](http://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 – Microsoft Project 2013,
- 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

CIT: 5 ECTS credits at Level 7 on the National Framework of Qualifications.

**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)

### Enquiries

T: 021 432 6264 E: [camms@cit.ie](mailto:camms@cit.ie) W: [www.camms.ie](http://www.camms.ie)

**Course Information, and to apply online, visit [www.cit.ie/course/CREACSY7](http://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.**

### Course Fee

€1,950\*

### Enquiries

T: 021 432 6264

E: [camms@cit.ie](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



## 4.1.1 Mechatronics

Course Code **CR\_EACSY\_7**

**Course Information, and to apply online, visit [www.cit.ie/course/CREACSY7](http://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 (PLC’s, 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 provide 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 OR Nine day intensive course (over nine weeks).

### Awarding Body

CIT: 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.

## 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](http://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

CIT: 5 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.



## Course Fee

€925\*

## Enquiries

T: 021 432 6264

E: [camms@cit.ie](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



# 4.1.3 Robotics

Course Code **CR\_EACSY\_7**

Course Information, and to apply online, visit [www.cit.ie/course/CREACSY7](http://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

CIT: 5 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.



## 4.2 Certificate in Advanced Mechatronics

Special Purpose Award – 10 ECTS Credits at Level 8

Course Code **CR\_EAMEC\_8**

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.



Course Information, and to apply online, visit [www.cit.ie/course/CREAMEC8](http://www.cit.ie/course/CREAMEC8)

### 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](http://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

CIT: 5 ECTS credits at Level 8 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 two or more.



## Course Fee

€980\* (Includes course notes and exam fees)

## Enquiries

T: 021 432 6264

E: [camms@cit.ie](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



# 4.2.2 Advanced Mechatronics Part 2

Course Code **CR\_EAMEC\_8**

Course Information, and to apply online, visit [www.cit.ie/course/CREAMEC8](http://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 the area of Mechatronics.

## Duration & Delivery

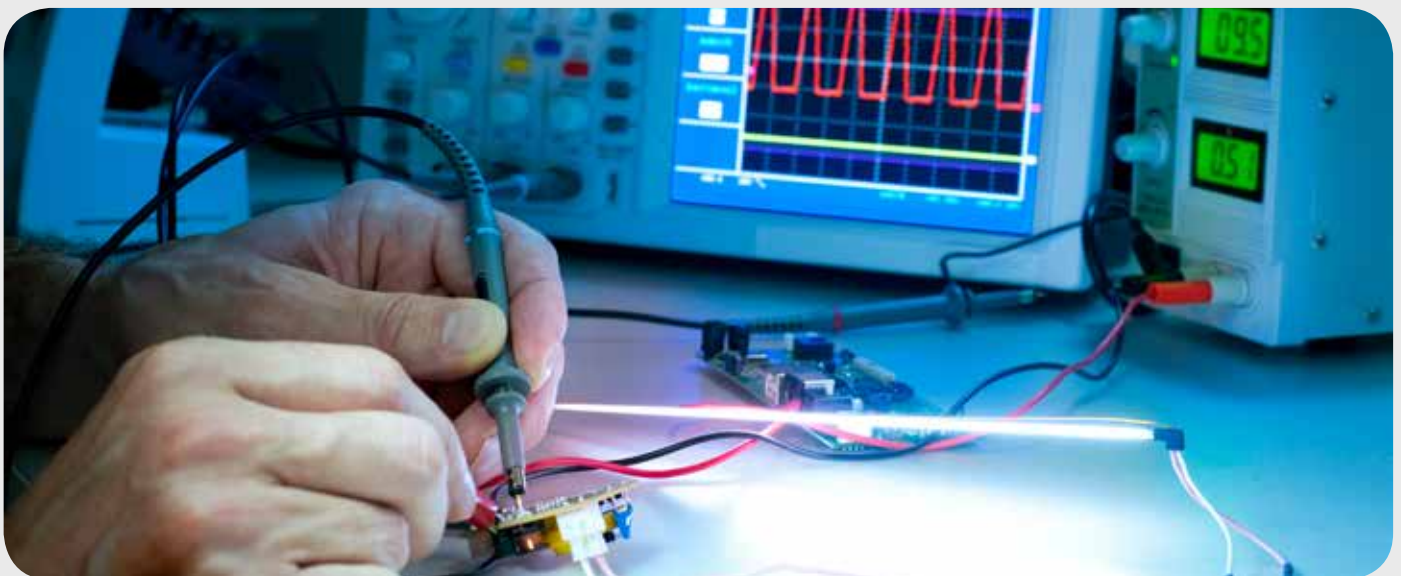
One evening per week for 12 weeks in Semester 1.

## Awarding Body

CIT: 5 ECTS credits at Level 8 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 two or more.





## 5.0 Society of Manufacturing Engineers Certification Programmes (SME)

The awarding body is the Society of Manufacturing Engineers (SME), which has 70,000 members world-wide. The SME is dedicated to the dissemination of information and education in the area of manufacturing engineering.

### Two levels of Certification are offered:

- Certified Manufacturing Technologist (CMfgT)
- Certified Manufacturing Engineer (CMfgE)

### 5.1 Certified Manufacturing Technologist (CMfgT)

Course Code **CR\_ECMTE\_6**

#### Course Fee

€1,000 includes course textbook.

(Course Fee does not include exam fee, payable to the SME).

#### Enquiries

T: 021 432 6264

E: [camms@cit.ie](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



Course Information, and to apply online, visit [www.cit.ie/course/CRECMTE6](http://www.cit.ie/course/CRECMTE6)

#### Content

- Engineering Mechanics
- Materials and Design
- Production Processes
- Quality Control and SPC
- Management and Production Planning
- Occupational Health and Safety
- Automation
- Maintenance

#### Admission Requirements

Candidates must have a minimum of four years manufacturing experience or two years relevant education.

#### Awarding Body

Society of Manufacturing Engineers (SME) (Course fee does not include examination fees, payable directly to the SME).

**Note:** CIT is not the examining body for this programme but acts as an official exam site.

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



### 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](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



## 5.2 Certified Manufacturing Engineer (CMfgE)

Course Code **CR\_ECMEN\_6**

Course Information, and to apply online, visit [www.cit.ie/course/CRECMEN6](http://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

Special Purpose Award  
(20 ECTS Credits at Level 6)  
Course Code **CR\_EMTEF\_6**

**Course Fee**  
€2,800\* (€700 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](http://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

CIT: 20 ECTS credits at Level 6 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 Skillnet Companies.

## Course Fee

€1,450\* (includes course notes and exam fees)

## Enquiries

T: 021 432 6264

E: [camms@cit.ie](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



# 7.0 Biomedical Engineering Programmes

## 7.1 Certificate in Biomedical Device Manufacture

Special Purpose Award  
10 ECTS Credits at Level 7  
Course Code **CR\_EBMDM\_7**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CREBMDM7](http://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 Practise (GMP) system and the operation of regulatory bodies such as FDA/IMB.

## Content

- **Anatomy**  
General anatomy, Neuro Anatomy, Cardiovascular 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, wire drawing; 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 Introduction to Biomedical Devices, 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 Code **CR\_EBMEC\_8**

### Course Fee

€1,300\* (includes course notes and exam fees)

### Enquiries

T: 021 432 6264

E: [camms@cit.ie](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CREBMEC8](http://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

### 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.

\* Discounts available for groups of three or more.





## Course Fee

See module listing

## Enquiries

T: 021 432 6264

E: [camms@cit.ie](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



# 8.0 Bachelor of Engineering Degrees

## 8.1 Bachelor of Engineering (Honours) in Process Plant Technology

Course Code **CR\_EPPTN\_8**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CREPPTN8](http://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](mailto:camms@cit.ie)

W: [www.camms.ie](http://www.camms.ie)



Course & Module Information, and to apply online, visit [www.cit.ie/course/CREAMTN8](http://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



# 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 Course (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)
- Certificate in Building Energy Efficient Practices (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 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 Code **CR\_BASIC\_4\_1**

**Course Fee**  
€450

**Enquiries**  
Geraldine Mahon  
T: 021 433 5910  
E: geraldine.mahon@cit.ie



**Course Information, and to apply online, visit [www.cit.ie/course/CRBASIC4](http://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.



### Course Fee

€450 (excl. test fee €65 per specimen sent for NDT)

### Enquiries

Geraldine Mahon

T: 021 433 5910

E: geraldine.mahon@cit.ie

# Coded Welding Course – Mags Welding

(Level 6)

Course Code **CR\_MAGS\_6\_1**

Course Information, and to apply online, visit [www.cit.ie/course/CRMAGS6](http://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](http://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.





### Course Fee

€450 (excl. test fee €65 per specimen sent for NDT)

### Enquiries

Geraldine Mahon

T: 021 433 5910

E: geraldine.mahon@cit.ie

# Coded Welding Course – Arc Welding

(Level 6)

Course Code **CR\_ARC\_6\_1**

Course Information, and to apply online, visit [www.cit.ie/course/CRARC6](http://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](mailto:jj.buttimer@cit.ie)



Course & Module Information, and to apply online, visit [www.cit.ie/course/CREAUTE6](http://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

### Course Fee

€650 (incl. exam fee)

### Enquiries

Gary O'Neill

T: 021 432 6711

E: gary.oneill@cit.ie

# Certificate in Automotive Powertrain Technology

(Level 7)

Course Code **CR\_EAAPT\_7**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CREAAPT7](http://www.cit.ie/course/CREAAPT7)



## 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](http://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).



### Course Fee

€650 (incl. exam fee)

### Enquiries

Seán O'Keeffe

T: 021 432 6716

E: sean.okeeffe@cit.ie

# Certificate in Building Energy Efficient Practices

(Level 6)

Course Code **CR\_EBEEP\_6**

Course Information, and to apply online, visit [www.cit.ie/course/CREBEEP6](http://www.cit.ie/course/CREBEEP6)



This course is currently being developed, upon approval, the course will commence in September 2016.

### Duration & Delivery

One night per week for two semesters.

### Admission Requirements

Level 5 or individuals in the construction industry with the appropriate experience.

### Course Content

The course will consist of two modules:

- Renewable Heating Technology CRAF7007
- Sustainable Building Principles

This programme aims to provide participants with an understanding of the construction principles used in energy efficient buildings and the technologies available for modern energy efficient heating systems. The programme will have a high practical content with candidates exposed to modern technology and construction techniques.

At the end of the programme candidate should be able to demonstrate:

- A knowledge of the terminology used in building energy efficient practices
- A knowledge of building fabric and air tightness
- An understanding of thermal bridging
- An understanding of ventilation and condensation
- The application of technical knowledge and skills to work confidently with modern renewable heating systems and controls

### Award

Special Purpose Award (10 ECTS credits at Level 6 on the National Framework of Qualifications).





CIT Bishopstown Library



# 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)
- Higher Certificate in Science in Good Manufacturing Practice & Technology (Level 6)
- Bachelor of Science in Good Manufacturing Practice & Technology (Level 7)
- 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 Michael J O'Mahony

T: 021 433 5943

E: michael.jomahony@cit.ie



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRECHBI9](http://www.cit.ie/course/CRECHBI9)

This is a 90 credit Level 9 taught programme comprising 8 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).

## Course Fee

€1,650

## Enquiries

Elaine McCarthy

T: 021 433 5150

E: elaine.mccarthy@cit.ie

# Certificate in Biopharmaceutical Processing

(Level 7)

Course Code **CR\_EBIPR\_7**



Course & Module Information, and to apply online, visit [www.cit.ie/course/CREBIPR7](http://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 laboratory experiments on the fermentation process

On successful completion of the Biopharmaceutical 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 2016**

Biopharmaceutical Upstream (Elective)

**To commence February 2017**

Biopharmaceutical Downstream Processing (Elective)

**Note:** The running of individual modules will be dependent on a sufficient number of students enrolling on the course.





# Higher Certificate in Science in Good Manufacturing Practice & Technology

(Level 6)

Course Code **CR\_SGMPE\_6**

## Course Fee

€450 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/CRSGMPE6](http://www.cit.ie/course/CRSGMPE6)**

A nationally accredited education programme designed to meet the education and training needs of people in the areas of Production, Quality Assurance and Validation in the Biopharmaceutical, Pharmaceutical and Medical Devices industries.

## Delivery

1 – 4 evenings a week depending on the number of modules taken. A number of daytime workshops to be decided.

## Admission Requirements

Candidates under the age of 23 must have obtained a minimum of Leaving Certificate Grade D3 at Ordinary Level in 5 subjects including Mathematics, and English or Irish, OR an appropriate craft/technician qualification OR non-standard applicants (e.g. mature students – over 23 years) will be considered on an individual basis. Eligible candidates may be interviewed.

## Course Content

This course is designed for existing employees or potential new recruits in the Biopharmaceutical, Pharmaceutical and Medical Devices industries who would like an accredited qualification in any of following areas:

### Mandatory Modules

cGMP 1 & Quality Assurance  
Chemical Principles  
Biomolecules and Cells  
Information Technology  
Microbes, Enzymes & Energy  
Intro. to Probability & Stats  
Measurement Science  
Essential Mathematical Skills  
Health and Safety/ Environment  
QA in Food Manufacturing  
cGMP 2 and Quality Control  
Work Placement  
Cleanroom Management

Calibration Science  
Lean Manufacturing  
Contamination Control  
Organic & Inorganic Chemistry  
Creativity, Innovation & Teamwork

### Electives

QA in Food Manufacturing  
cGMP 2 and Quality Control  
Introduction to Industrial Biotechnology  
Industrial Biotechnology  
Manufacturing Technology  
Food Processing  
Free Choice Module

## Course Options

Credits and Certificates are awarded for each module passed, allowing participants to select accredited modules appropriate to skill need and/or gather credits towards the award of Higher Certificate.

## Exemptions

Applicants who have appropriate experience and knowledge of the Pharmaceutical or Medical Devices industries may be considered exempt from examination of some modules in Stage 1 or Stage 2 upon providing evidence via the Recognition of Prior Learning (RPL) scheme of the Institute ([www.cit.ie/rpl](http://www.cit.ie/rpl)).

## Further Studies

Students completing the Higher Certificate in Good Manufacturing Practice & Technology have the opportunity to proceed to a Bachelor of Science in Good Manufacturing Practice (Level 7).

**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.

### Course Fee

€500 per module

### Enquiries

Elaine McCarthy

T: 021 433 5150

E: elaine.mccarthy@cit.ie

# Bachelor of Science in Good Manufacturing Practice & Technology

(Level 7)

Course Code **CR\_SGMPE\_7**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRSGMPE7Y1](http://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 2016

Validation Science (Mandatory)

Chemical Applications (Mandatory)

Biopharmaceutical Upstream (Elective)

Formulation (Elective)

Free Choice Elective

#### To commence February 2017

Technology Transfer (Mandatory)

Biopharmaceutical Downstream (Elective)

Medical Devices (Elective)

Project (Mandatory)\*

\* Project can be undertaken once 7 modules have been completed.

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 12 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.

The project is undertaken towards the end of the degree programme, when the student has completed most 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

Biopharmaceutical Upstream

People Management

Process Improvement

Biopharmaceutical Downstream

Energy Management

Project

Medical Devices

Formulation

Food Processing Technology

**Note:** The running of individual modules will be dependent on a sufficient number of students enrolling on the course.

*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 lower 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:

MANU6011	Calibration Science
STAT6008	Lean Manufacturing
MANU6013	Manufacturing Technology
MGMT6021	GMP1/QA
INFO6017	Information Technology
BIOM6003	Cleanroom Management

Details of these modules can be found on the CIT website:  
[www.cit.ie/course/CRSGMPE7Y1](http://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
MATH6000	Essential Maths Skills
BIOM6004	Contamination Control

These modules will be offered at night this academic year (Sept 2016 to June 2017) 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.



### Course Fee

€570 (inc. exam fee)

### Enquiries

Pat O'Shaughnessy

T: 021 433 5944

E: pat.oshaughnessy@cit.ie

# Motor Dealer Organisation

(Level 6)

Course Code **CR\_EMDOR\_6**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CREMDOR6](http://www.cit.ie/course/CREMDOR6)



## Delivery

One night per week for one academic year.

## Admission Requirements

Leaving Certificate or relevant craft qualification.

## Course Content

The course will consist of two modules in motor dealer organisation.

The modules will address the issues covering site selection and setup of a motor dealership. It will also cover the legal, administrative, warranty, personnel and safety matters encountered in practice by service advisors and service managers.

### 1. Motor Dealer Organisation AUTO7001

On successful completion of this module you will be able to

- Discuss the administration and organisation of the various departments in a motor dealership.
- Describe workshop loading, workshop progress and workshop productivity.
- 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 workshop and stores layout.
- Explain the main duties of the aftersales staff in the automotive business, describe different types of bonus schemes.
- Discuss the purpose of Block Exemption Regulations in the motor industry. Have a good knowledge of health and safety act in relation to the motor trade.

### 2. Franchise Dealer Operations MECH 7020

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 by current legislation and outline the responsibilities for the control and handling of hazardous material, waste management.
- Comprehend how the various departments in the Motor Industry can be operated efficiently.
- Discuss the various types of insurance cover required within the Motor Industry.

## 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**

Dr Hugh McGlynn

Information evening for continuing education courses for the School of Science & Informatics will take place at the CIT Bishopstown Campus on Wednesday 7<sup>th</sup> September 2016, 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
- Computing

[www.cit.ie](http://www.cit.ie)

# DEPARTMENT OF PHYSICAL SCIENCES

**Head of Department**

Dr Guillaume Huyet

**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
- Bachelor of Science in Applied Physics & Instrumentation
- Bachelor of Science (Honours) in Instrument Engineering
- Certificate in Advanced Industrial Automation
- Certificate in Industrial Automation and SCADA
- Certificate in Industrial Measurement and Calibration
- Certificate in Quality Assurance
- Diploma in Quality Management Part 1
- Diploma in Quality Management Part 2

**■ 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.



# Higher Certificate in Science in Industrial Measurement & Control

(Level 6)

Course Code **CR\_SIMCT\_6**

## Course Fee

€220 per 5 credit module (inc. exam fee)

## Enquiries

Dr Stephen Hegarty

T: 021 433 5870

E: [stephen.hegarty@cit.ie](mailto:stephen.hegarty@cit.ie)



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRSIMCT6](http://www.cit.ie/course/CRSIMCT6)

## ACCS Mode

**Cycle C:** Modules will be offered on three evenings per week. The modules listed are subject to change.

**Note:** This Level 6 programme is currently delivered over three academic years. Selected stage 1 and stage 2 modules are offered each year. 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 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

### • Cycle A Modules

Introduction to Programming  
Process Instrumentation 1  
Graphics & Engineering Design  
Sensors & Systems  
Practical Computer Technology  
Mathematics for Science 2.1  
Technological Mathematics 2

### • Cycle B Modules

Mathematics for Science 2.2  
Process Instrumentation 2  
Industrial Automation 1  
Instrument Calibration  
Introduction to Physics  
Digital Instrumentation  
Technological Mathematics 2

### • Cycle C Modules

Mathematics for Science 2.1  
Essential Mathematical Skills  
Introduction to Process Control  
Industrial Automation 1  
Communications & Safety  
Industrial Automation Project  
Fundamental Physics  
Introduction to Programming

**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

Students who pass 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.

### Course Fee

€220 per 5 credit module (inc. exam fee)

### Enquiries

Dr Stephen Hegarty

T: 021 433 5870

E: stephen.hegarty@cit.ie

# Bachelor of Science in Applied Physics & Instrumentation

(Level 7)

Course Code **CR\_SPHYS\_7**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRSPHYS7](http://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 2016/2017 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  
Digital Systems & Interfacing  
Process Control & Electrical  
Industrial Automation & SCADA  
Quality Systems

- **Cycle B Modules**

Programming for Measurement  
Process Engineering  
Industrial Communications & Networks  
Telemetry  
Project

## Award

Single module certification within the Bachelor of Science in Applied Physics & Instrumentation.

The major award of the Bachelor of Science in Applied Physics & Instrumentation will be received by students who successfully complete the course programme.

## 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 Bachelor of Science in Applied Physics & Instrumentation to the Bachelor of Science (Honours) in Instrument Engineering, 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

Dr Stephen Hegarty

T: 021 433 5870

E: [stephen.hegarty@cit.ie](mailto:stephen.hegarty@cit.ie)



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRSINEN8](http://www.cit.ie/course/CRSINEN8)

## Important change of award title

With effect from September 2012, the part-time course leading to the Bachelor of Science (Honours) in Applied Physics and Instrumentation award changed to the Bachelor of Science (Honours) in Instrument Engineering award. New students will receive the latter award on satisfactory completion of the programme. Pre-September 2012 students may change their registration to the new award or remain with the old award. The programme content is largely unaltered.

## 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 2016/2017 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  
Labview for Instrumentation  
Process Analytical Technologies  
Instrument System Design  
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.

### Course Fee

Total: €1,560

Students may also pay per module

### Enquiries

Dr Stephen Hegarty

T: 021 433 5870

E: [stephen.hegarty@cit.ie](mailto:stephen.hegarty@cit.ie)

# Certificate in Advanced Industrial Automation

(Level 8)

Course Code **CR\_SINAU\_8**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRSINAU8](http://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](http://www.cit.ie/rpl).

### Award

Certificate in Advanced Industrial Automation - Special purpose award. (Level 8 on the National Framework of Qualification).



# Certificate in Industrial Automation and SCADA

Course Code **To be confirmed**

## Course Fee

Please email fees@cit.ie

## Enquiries

Dr Stephen Hegarty

T: 021 433 5870

E: stephen.hegarty@cit.ie



The programme is currently being developed and may commence in September 2016

## Aim

The aim of this programme is to provide learners with the skills and knowledge necessary to gain employment in the application of state-of-the-art automation techniques across a range of industries. The modules provided in this course have been identified as key skills by the process industries based in the region. In addition each module has a significant laboratory component where the learner obtains hand-on experience with hardware and software commonly used by the process automation industry – in particular systems such as Deltav and Siemens PLCs and SCADA which are used by many of the companies in the target sector.

## Duration & Delivery

The modules will be delivered on up to three nights per week, with a substantial portion of the second semester in the form of a Work Placement.

## Content

### Modules

PHYS6006 Industrial Automation 1

PHYS6025 Introduction – Process Control

PHYS6024 Introduction to Programming for Measurement

PHYS7014 Work Placement

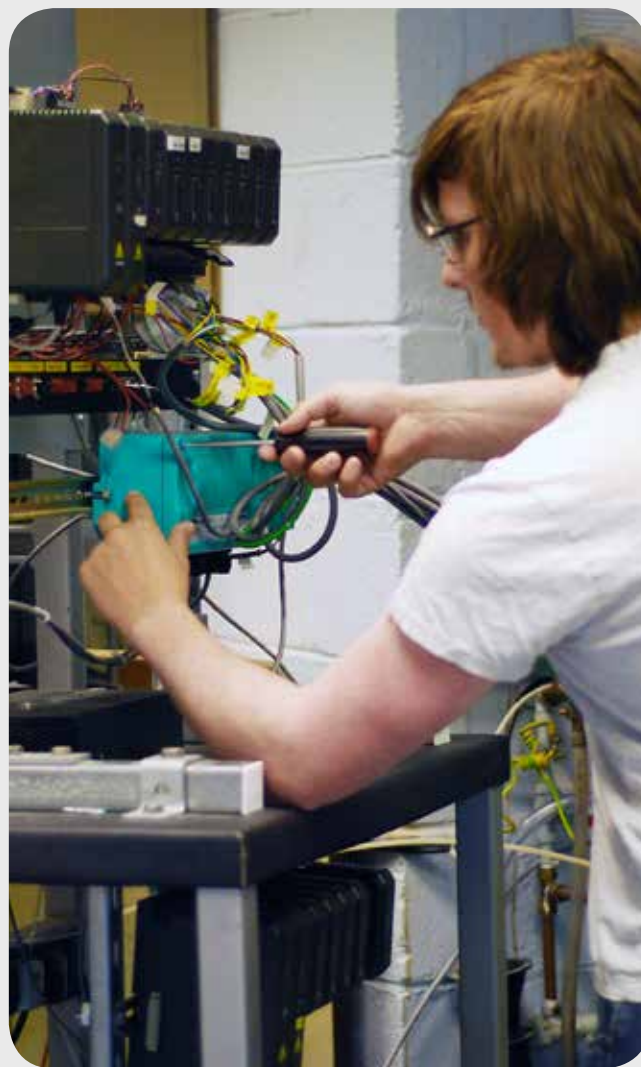
PHYS7008 Industrial Automation and SCADA

## 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 Automation and SCADA – Special purpose award. (Level 7 on the National Framework of Qualification).





### Course Fee

Please email fees@cit.ie

### Enquiries

Dr Stephen Hegarty

T: 021 433 5870

E: stephen.hegarty@cit.ie

# Certificate in Industrial Measurement and Calibration

Course Code **To be confirmed**

The programme is currently being developed and may commence in September 2016



### 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 Qualification).





# 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

Mary Phelan

T: 021 433 5870 E: [mary.phelan@cit.ie](mailto:mary.phelan@cit.ie) or

Dr Mary McCarthy

T: 021 433 5878 E: [mary.mmccarthy@cit.ie](mailto:mary.mmccarthy@cit.ie)



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRSQUAS6](http://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.

### 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 Qualification).

### Awarding Body

Cork Institute of Technology.

### Commencement Date

Monday, 12th September 2016.

### Closing Date for Application

Applications for places must be made online between 1/5/2016 and 31/8/2016.

### Course Fee

€700 (payable to CIT). Exam fee: Currently €150 (payable to the external examining body EIQA)

### Enquiries

Mary Phelan

T: 021 433 5870 E: mary.phelan@cit.ie or

Dr Mary McCarthy

T: 021 433 5878 E: mary.mmccarthy@cit.ie

# Diploma in Quality Management

Part 1

Course Code **CR\_SQMAN\_7\_Y1**

**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRSQMAN7Y1](http://www.cit.ie/course/CRSQMAN7Y1)**



### Duration & Delivery

Monday or Tuesday or Wednesday, 7pm - 10pm  
(Usually Tuesday)

One evening per week for one academic year.

### Admission Requirements

Applicants are required to have the CIT Certificate in Quality Assurance Special Purpose Award or an equivalent qualification. Experience in quality management will be taken into account. Applications on an “equivalent” basis are 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, 13th September 2016.

### Closing Date for Application

Applications for places must be made online between 1/5/2016 and 31/8/2016.

# 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

Mary Phelan

T: 021 433 5870 E: [mary.phelan@cit.ie](mailto:mary.phelan@cit.ie) or

Dr Mary McCarthy

T: 021 433 5878 E: [mary.mmccarthy@cit.ie](mailto:mary.mmccarthy@cit.ie)



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRSQMAN7Y2](http://www.cit.ie/course/CRSQMAN7Y2)**

### Duration & Delivery

Monday or Tuesday or Wednesday, 7pm - 10pm  
(Usually Wednesday)

One evening per week for one academic year.

### 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, 14th September 2016.

### Closing Date for Application

Applications for places must be made online between 1/5/2016 and 31/8/2016.

# DEPARTMENT OF MATHEMATICS

**Head of Department**

Dr Áine Ní Shé

E: [aine.nishe@cit.ie](mailto:aine.nishe@cit.ie)

T: 021 433 5123

**Department Secretary**

Noreen Lucey/Mary Carey

Location Room: B225L

T: 021 433 5160 | E: [maths@cit.ie](mailto:maths@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.

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.

**Enrolment**

An Information Session will take place in Cork Institute of Technology, Bishopstown Campus on Wednesday 7th September 2016 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)

## Enquiries

Dr Áine Ní Shé

T: 021 433 5160

E: aine.nishe@cit.ie



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRSDAAN8](http://www.cit.ie/course/CRSDAAN8)**

## Duration

2 Years Part-time.

Course commences in September 2016 (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](http://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 such as R, Excel, VBA, SAS, SPSS, RapidMiner, Tableau, Hadoop and Qlikview, and in the programming languages Python, SQL and NoSQL.

## Content

### Mandatory

DATA8001	Data Science and Analytics
MATH8009	Mathematical Methods and Modelling
STAT8006	Applied Statistics and Probability
DATA8002	Data Management Systems
DATA8003	Unstructured Data & Visualisation
COMP8042	Analytical and Scientific Programming
STAT8007	Statistical Methods for Big Data
DATA8004	Data Mining and Knowledge Discovery
DATA8005	Distributed Data Management
DATA8006	Data Analytics Project

### Electives

STAT8008	Time Series & Multivariate Analysis
COMP8043	Machine Learning

## Award

Higher Diploma in Science in Data Science & Analytics (Level 8 on the National Framework of Qualifications).

# DEPARTMENT OF COMPUTING

**Head of Department**

Tim Horgan

**Department Secretary**

Noreen Lucey/Mary Carey

Location Room: B225L

T: 021 433 5160

E: [computing@cit.ie](mailto:computing@cit.ie)

## PROGRAMMES

- Master of Science in Cloud Computing
- Master of Science in Software Development\*
- Master of Science in Information Security
- Master of Science in Information Design & Development
- Bachelor of Science (Honours) in Cloud Computing
- Higher Certificate in Science in Computing\*
- Bachelor of Science in Computing

**Cisco Network Academy**

- CISCO Certified Network Associate

**CompTIA**

- CISCO IT Essentials 1/CompTIA A+
- CompTIA Network+
- CompTIA Security+
- CompTIA Linux+

**VMware IT Academy**

- VMware vSphere Fast Track ICM & Optimise and Scale 6.0

**EMC Academic Alliance**

- EMC Information Storage Management

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.



National Development Plan

Transforming Ireland

<http://computing.cit.ie>



# 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](mailto:cloud@cit.ie)



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKCLDC9](http://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

18 months (3 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 Administration  
App. Development Frameworks  
Data Analytics  
Software Engineering

## Award

Master of Science in Cloud Computing (Level 9 on the National Framework of Qualifications).

## Closing Date for Application

Completed applications must be made online with CIT before 5pm on 12th September 2016, using the "Apply Online" link quoted above. Classes will commence in September 2016.

**Course Fee**  
€4,620

### Enquiries

Dr John Creagh  
T: 021 433 5113  
E: john.creagh@cit.ie



# Master of Science in Software Development

(Level 9)

Course Code **CR\_KSDEV\_9**

**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKSDEV9](http://www.cit.ie/course/CRKSDEV9)**



In part-time mode, students attend up to 2 – 3 evenings per week depending on the modules selected. Each taught module is scheduled for 2 hours lectures, 1 hour laboratory/tutorial per week.

### Admission Requirements

Applicants will normally have a primary honours degree with first or second class honours or its equivalent, in a computing discipline. Other applicants may be accepted if they have at least four years' experience in Software Development and can satisfy CIT that they possess an adequate background for the programme.

Applicants may be interviewed by an admission panel. Particular attention will be paid to the applicants' 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.

### Aim

This programme is designed to produce graduates with advanced theoretical and practical skills and knowledge in Networking and Security, with a demonstrated ability to perform research on topics related to these fields of study.

### Content

The programme requires the graduate to take four mandatory and four elective taught modules. The Research Project, which may include the design and implementation of a high quality nontrivial software application, is also mandatory. The Project normally commences in February and assessed in September.

### Mandatory

Software Engineering  
Software Quality  
Advanced Object Technology  
Computing Research & Practice  
Research Project

### Electives

Web-Based Systems  
Computer Simulation and Modelling  
Artificial Intelligence  
Software Security  
Real Time Systems  
Parallel Computing  
Human-Computer Interaction  
Software Development for the Cloud

The modules will be taught by CIT staff, experts from industry and other educational institutions. Modules may be substituted at the discretion of CIT, subject to approval by the validating authority.

### Award

Master of Science in Software Development (Level 9 on the National Framework of Qualifications).  
(Single module certification is possible)

### Closing Date for Application

Completed applications must be made online with CIT before 5pm on 9th September 2016. Classes will commence in September 2016.

This programme is supported by the National Development Plan.

# Master of Science in Information Security

(Level 9)

Course Code to be confirmed

## Course Fee

€9,000.

Three instalments of €3,000 are possible.

## Enquiries

Vincent Ryan

E: vincent.ryan@cit.ie

T: 021 433 5112



The programme is currently being developed and will commence in September 2016

This programme is available online only for part-time delivery and online and on campus for full time delivery. 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

18 months (3 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 both online and on campus. In this offering the learner will participate in lectures with the part-time cohort but will also participate in on-campus lectures and practical work.

## 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 Administrators  
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)

### Course Fee

€6,300 (€350 per 5 credit module)

### Enquiries

Dr Seán McSweeney

E: sean.mcsweeney@cit.ie

# Master of Science in Information Design & Development

(Level 9)

Course Code **CR\_KINDD\_9**



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKINDD9](http://www.cit.ie/course/CRKINDD9)**

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

18 months (3 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 offer 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.

#### Stage 1/Semester 1

XML in Technical Communications (10 ECTS)  
Multimedia Production

#### Stage 1/Semester 2

Information Design & Development (10 ECTS)  
Information Strategy

#### Stage 2/Semester 1

Information Experience (10 ECTS)  
Emerging Technological Skills

#### Stage 2/Semester 2

Document Project Management (10 ECTS)

#### Stage 3/Semester 1

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

Completed applications must be made online with CIT before 5pm on 5th September 2016. Classes will commence on Monday, 12th September 2016.

# Bachelor of Science (Honours) in Cloud Computing

(Level 8)

Course Code **CR\_KCLDC\_8\_Y4**

## Course Fee

€7,500 in total. Three instalments of €2,500 are possible

## Enquiries

Pat McCarthy

E: [pat.mccarthy@cit.ie](mailto:pat.mccarthy@cit.ie)

T: 021 432 6015



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKCLDC8](http://www.cit.ie/course/CRKCLDC8)**

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

18 months (3 semesters) is the minimum duration.

## Admission Requirements

To be eligible to undertake the programme applicants must hold a Level 7 ordinary degree in Computing or in a cognate discipline with the necessary experiential or certified learning.

## Content

This one year add-on honours Bachelor of Science in Cloud Computing degree aims to develop students both technically and personally and produce broad based graduates of high academic and practical standards to match the needs of both the Irish and international IT industry. An emphasis is placed on cloud computing throughout and this focus is supported by the addition of modules in cloud architectures, networking, virtualisation, storage, security, cloud computing programming, information analytics and individual multidisciplinary projects. This combination of modules along with practical and laboratory workshops provides graduates with an ideal education that will enable them to seek entry to a wide variety of roles and levels of responsibility within the workforce.

## Module Information

### Mandatory

Cloud Architectures  
Internet & Network Services  
Software Defined Networking  
Data Centre Virtualisation  
Project – Research Phase  
Information Analytics  
Enterprise Storage Systems  
Network Security  
Cloud Computing with Python  
Project – Implementation Phase

### Elective

Any two 5 credit modules of the student's choice

## Further Studies

Graduates from the programme may apply for the taught MSc in Cloud Computing. Graduates may also apply to study for a research based MSc or PhD.

## Award

Bachelor of Science (Honours) in Cloud Computing (Level 8 on the National Framework of Qualifications).  
(Single module certification possible)

## Closing Date for Application

Completed applications must be made online with CIT before 5pm on 7th September 2016. Classes will commence in September 2016.

### Course Fee

€250 per 5 credit module

### Enquiries

Department Secretary

T: 021 433 5160

E: [computing@cit.ie](mailto:computing@cit.ie)



# Higher Certificate in Science in Computing

(Level 6)

Course Code **CR\_KCOME\_6**

**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKCOME6](http://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
- Computer Architecture
- Computer Networks
- Database Systems
- Operating Systems
- Mathematics & Statistics
- Web Development

### 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 Computing (Level 7 on the National Framework of Qualifications).  
(Single module certification possible)

### Closing Date for Application

Completed applications must be made online with CIT before 5pm on 9th September 2016, using the "Apply Online" link quoted above. Classes will commence in September 2016.

This programme is supported by the National Development Plan.





# Bachelor of Science in Computing

(Level 7)

Course Code **CR\_KCOME\_7**

## Course Fee

€330 per 5 credit module

## Enquiries

Department Secretary

T: 021 433 5160

E: [computing@cit.ie](mailto:computing@cit.ie)



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKCOME7](http://www.cit.ie/course/CRKCOME7)**

This programme is designed as a follow on programme from the Higher Certificate in Science in Computing.

## Admission Requirements

To be eligible to undertake the programme you must hold a Higher Certificate in Science in Computing 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](http://www.cit.ie/rpl)

## Duration

At least four semesters, depending on the number of modules taken per semester.

## Content

Among the areas you would be required to study are:

Programming

Analysis and Design

Systems Administration

Web based System development

Business Management

Project

## 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 Computing (Level 7 on the National Framework of Qualifications).  
(Single module certification possible)

## Closing Date for Application

Completed applications must be made online with CIT before 5pm on 7th September 2016. Classes will commence in September 2016.



# CISCO Network Academy Programme

CISCO is the major multinational company that produces routers, switches and software that power the Internet and global telecommunications. As such Cisco Certification is recognised worldwide. Cisco has a certification programme for engineers, which they independently verify.

The Cisco Network Academy in CIT trains and prepares students with tuition in a classroom surrounding, and hands-on practical training on switches and routers in our two fully equipped networking laboratories. CIT provides all students with remote access to its Netlab training pods, so that the student can practice their practical techniques while working from home or at work. CIT also provides, on request, group courses by Cisco certified trainers leading to participants being able to sit the CCNA (Cisco Certified Network Associate) examination.

This qualification is part of the Cisco hierarchy of professional qualification ([www.cisco.com/go/certification](http://www.cisco.com/go/certification)).

## Course Fee

€2,250 (excludes VUE exam fee)

## Enquiries

T: 021 433 5160

E: [computing@cit.ie](mailto:computing@cit.ie)

## Cisco Certified Network Associate

(Level 6)

Course Code **CR\_KCNAS\_6**

**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKCNAS6](http://www.cit.ie/course/CRKCNAS6)**



Lectures every Wednesday night. Labs will take place either on Thursday/Friday night or Saturday morning.

## Aims

This programme aims to offer the student the training necessary, in both theory and hands-on practical work, to achieve the Cisco qualification of Network Associate. This programme, which consists of four modules is designed to teach the objectives of the CCNA qualification, from a basic overview level of networking in module 1 to an advanced discussion of prescribed networking topics in modules 3 and 4, e.g. ACLs, Frame Relay, VLANs, etc.

On completion of all modules, the student will have the requisite knowledge to sit the VUE test (#200-120) which awards the CCNA qualification.

## Content

Introduction to Networks  
Routing and Switching Essentials  
Scaling  
Networks  
Connecting Networks

## Admission requirements

None, but a basic knowledge of computer networking would be an advantage.

## Duration

Mid-September 2016 to mid-June 2017.

## Validating Body

CISCO.

## Closing Date for Application

Completed applications must be made online with CIT before 5pm on 16th September 2016. Classes will commence in September 2016.

# CompTIA Academy

The Computing Technology Industry Association has been dedicated to advancing the growth of the Information Technology (IT) industry and those working in it. With more than 19,000 members in 89 countries, CompTIA is the leading Global IT Trade Association with influence in all areas of the IT industry worldwide.

CIT became the first CompTIA CAPP (CompTIA Authorised Partner Programme) to be set up in Ireland in 2004. Its most popular accreditations that may be attained from CompTIA are CompTIA A+, Network+, Security+ and Linux+. These courses are delivered under the CIT Cloud Professional Academy, which is focused on delivering courses to Industry in areas of software, infrastructure and big data.

## CISCO IT Essentials 1/ CompTIA A+

(Level 6)

Course Code **CR\_KHOST\_6**

### Course Fee

€1,450 (includes CompTIA 901 and 902 exam fees)

### Enquiries

T: 021 433 5160

E: [computing@cit.ie](mailto:computing@cit.ie)



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKHOST6](http://www.cit.ie/course/CRKHOST6)**

The CIT CompTIA A+ certified programme validates the latest skills needed by today's computer support professionals. It is an international, vendor-neutral certification recognised by major hardware and software vendors, distributors and resellers. CompTIA A+ confirms a technician's ability to perform tasks such as installation, configuration, diagnosing, preventive maintenance and basic networking.

The CompTIA A+ exams (IT Essentials and PC Technician) also cover domains such as security, safety and environmental issues and communication and professionalism. CompTIA A+ certified technicians also have excellent customer service and communication skills to work with clients. The course will achieve its aim by transferring knowledge and skills to the participants in a dynamic and exciting way, making the best use of instructor-led tuition, practical skills sessions, project work and the most up-to-date on-line learning materials.

This part-time CompTIA A+ course is aimed at Entry-level Service Technicians or those wishing to validate their knowledge and experience by obtaining A+ Certification.

This course is the ideal starting point for anyone interested in working in IT configuring, upgrading and supporting PCs in the workplace.

**Two exams are necessary to be CompTIA A+ certified:**

> CompTIA A+ Essentials, exam code JKO-901

> CompTIA A+ IT Technician, exam code JKO-902

CompTIA A+ Essentials measures the necessary competencies of an entry-level IT professional with a recommended 500 hours of hands-on experience in the lab or field. It tests for technical understanding of computer technology, networking and security, as well as the communication skills and professionalism now required of all entry level IT professionals.

CompTIA A+ IT Technician is an extension of the knowledge and skills identified in CompTIA A+ Essentials, with more of a "hands-on" orientation focused on scenarios in which troubleshooting and tools must be applied to resolve problems.

### Delivery

Two evenings per week: Tuesday 6.30pm – 9.30pm and Thursday 6.30pm – 9.30pm with 2 optional Saturdays.

### Validation

Computer Trade and Industry Association and Cork Institute of Technology.

### Closing Date for Application

Completed applications must be made online with CIT before 5pm on Friday 30th September 2016. Classes for Semester 1 will commence at the end of September 2016 and for Semester 2 will commence at the beginning of February 2017.

### Course Fee

€1,400 (includes exam fees)

### Enquiries

Pat McCarthy

T: 021 433 5160

E: [computing@cit.ie](mailto:computing@cit.ie)

E: [pat.mccarthy@cit.ie](mailto:pat.mccarthy@cit.ie)

# CompTIA Network+

(Level 6)

Course Code **CR\_KINET\_6**



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKINET6](http://www.cit.ie/course/CRKINET6)**

The CompTIA Network+ run under the CIT CompTIA CAPP programme offers an excellent theory and practical based networking course at a fundamental level for all participants interested in entering the workplace as a network technician, network administrator or technical support engineer. The CompTIA Network+ course builds on your existing user-level knowledge and experience with personal computer operating systems and networks to present fundamental skills and concepts that you will use on the job in any type of networking career.

The programme is an excellent primer in networks and will provide the student with excellent foundational skills from a theoretical and practically perspective so that they may pursue more advanced accreditations in the networking area such as the Cisco Certified Network Associate (also offered by Cork Institute of Technology) and the Microsoft Certified Systems Engineer. The programme addresses core areas of networking such as the OSI and TCP/IP models, IP Addressing, Subnetting, Physical Network Topologies, Cabling, Router, Switches, Firewalls, Wireless Technologies and LAN/WAN environments.

The CompTIA Network+ certification prepares students for the CompTIA Network+ certification exam which is an industry wide respected certification of competency in Networking technologies.

### Resources & Materials

All learning resources required to successfully complete this programme are included. Students are also provided with as much personal tuition and support from CIT's experienced instructors/lecturers as they require throughout the programme.

The course is delivered using CIT's Cloud Education services such as Adobe Connect (Virtual Classroom), vCloud (Virtual Lab Environment) and Blackboard (Learning Management System).

### Admission Requirements

None specifically but the course is best suited to someone in IT Support, Network Administration or a PC Technician. It would also benefit someone who has already achieved the CompTIA A+ certification.

### Modules

Network Theory and Communications  
Network & Cable Media

Network Implementations

Networking with TCP/IP

TCP/IP Services

Local Area Network Infrastructure

WAN Infrastructure

Network Security

Remote Networking

Disaster Recovery

Network Management

Network Troubleshooting

### Programme Objectives

- Understand the functions of various network connectivity devices
- Implement a Network installation and use network applications
- Work with client/server and multi-vendor environments
- Examine the TCP/IP suite, WAN technologies and remote connectivity
- Install and support Windows NT and establish network printing
- Learn how to maintain network security and troubleshoot Industry

### Support for CompTIA Network+

The technology community identifies CompTIA Network+ certification as the perfect entry point into a Networking career. Technology and certification companies including Microsoft, Hewlett-Packard, Cisco, and Certiport recognise CompTIA Network+ Certification as part of their certification programmes.

### Duration & Delivery

This course is delivered over 12 weeks (two evenings a week Tuesday & Thursday 6.30pm – 9.30pm) during the academic year. The course will be delivered using a mixture of online lectures and classroom based labs.

### Validating Body

Computer Technology Industry Association and Cork Institute of Technology.

### Closing Date for Application

Completed applications must be made online with CIT before 5pm on Friday 30th September 2016. Classes for Semester 1 will commence at the end of September 2016 and for Semester 2 will commence at the beginning of February 2017.

# CompTIA Security+

Course Code **CR\_KSECY\_6**

## Course Fee

€1,400 (includes exam fees)

## Enquiries

Pat McCarthy

T: 021 433 5160

E: [computing@cit.ie](mailto:computing@cit.ie)

E: [pat.mccarthy@cit.ie](mailto:pat.mccarthy@cit.ie)



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKSECY6](http://www.cit.ie/course/CRKSECY6)**

The CompTIA Security+ professionally certified course is run under the Cork Institute of Technology CompTIA CAPP programme. The course offers an excellent theory and practical security course at a foundational level for all participants interested in adding security both at the network and system level. The CompTIA Security + certification is an internationally recognised validation of the technical knowledge required of foundation level security practitioners.

This course is focused at the requirements outlined by the CompTIA Security+ Certification examination. But certification is not the only key to professional success in the field of computer security. Today's job market demands individuals with demonstrable skills, and the information and activities in this course can help you build your computer security skill set so that you can confidently perform your duties in any security-related professional role.

## Resources & Materials

All learning resources required to successfully complete this programme are included. Students are also provided with as much personal tuition and support from CIT's experienced instructors/lecturers as they require throughout the programme.

## Aim

CompTIA® Security+ Certification will prepare students for the CompTIA Security+ Certification Exam. On completion, the student has the requisite knowledge to sit COMPTIA Security+ Exam which is necessary to achieve Certification.

## Modules

Security Fundamentals

Security Threats and Vulnerabilities

Network Security

Managing Application, Data, and Host Security

Access Control, Authentication, and Account Management

Managing Certificates

Compliance and Operational Security

Risk Management

Managing Security Incidents

Business Continuity and Disaster Recovery Planning

## Admission Requirements

Candidates are recommended to have two years' experience in a networking role with pre-existing knowledge of TCP/IP, experience in a security related role. Best suited to someone in IT Support, Network or Server Administration or someone working in a network/security role who wishes to attain certification.

## Duration & Delivery

The CompTIA Security + course is delivered online using a live virtual classroom using Adobe Connect supported by a Virtual Lab Environment on a VMware vCloud Platform. Lectures are recorded and can be streamed on an on-demand basis over the duration of the course. The course is supported through CIT's Learning Management Systems and other communication systems.

It is delivered over 12 weeks (two evenings a week Tuesday & Thursday 6.30pm – 9.30pm) during the academic year.

## Closing Date for Application

Completed applications must be made online with CIT before 5pm on Friday 30th September 2016. Classes for Semester 1 will commence at the end of September 2016 and for Semester 2 will commence at the beginning of February 2017.

**Course Fee**  
€1,400  
(includes exam fees)



**Linux  
Professional  
Institute**

### Enquiries

Pat McCarthy  
T: 021 433 5160  
E: [computing@cit.ie](mailto:computing@cit.ie)  
E: [pat.mccarthy@cit.ie](mailto:pat.mccarthy@cit.ie)

# Comptia Linux+

(Level 6)

Course Code **CR\_KLNUX\_6**

**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKLNUX6](http://www.cit.ie/course/CRKLNUX6)**



The CompTIA Linux+ professionally certified course, is run under the CIT CompTIA CAPP programme. The course offers an excellent theory and practical security course at a foundational level for all participants interested in adding Linux both at the network and system level. The CompTIA Linux+ powered by LPI course, developed to cover CompTIA Powered by LPI exams LX0-103 and LX0-104, builds on your existing user-level knowledge and experience with the Linux operating system to present fundamental skills and concepts.

The CompTIA Linux+ certification is an internationally recognised validation of the technical knowledge required of foundation level Linux practitioners. A CompTIA Linux+ certified professional has successfully illustrated a proven capability and competency in the following areas; general Linux operating system concepts, Linux system security, Linux installation and configuration. This course is focused at the requirements outlined by the CompTIA Linux+ Certification examination. But certification is not the only key to professional success in the field of computer security. Today's job market demands individuals with demonstrable skills, and the information and activities in this course can help you build your Linux system administrative skill set so that you can confidently perform your duties in any system administrative-related professional role.

The CompTIA Linux+ teaches the student the following skills, Linux administration, basic Linux concepts, manage User and Group accounts, manage partitions and the Linux filesystem, manage various files in Linux, Linux permissions and file ownership, Linux printing tasks, manage kernel services, bash shell and shell scripts, manage jobs and processes and manage system services. Configure Linux network services and basic Internet services, Linux security, troubleshoot Linux system issues and configure Linux GUI.

The technology community identifies CompTIA Linux+ powered by LPI certification as the perfect entry to a Linux System Administrator role. Leading companies such as FireEye, VM ware and DELL all place great value on this particular certification.

### Admission Requirements

None specifically but the course is best suited to someone in IT Support, Network Administration or a System Administrator. It would also benefit someone who has already achieved the CompTIA A+ and CompTIA Network + certifications.

### Duration & Delivery

The CompTIA Linux+ (sponsored by LPI) course is delivered online using a live virtual classroom using Adobe Connect supported by a Virtual Lab Environment on a VMware vCloud Platform. Lectures are recorded and can be streamed on an on-demand basis over the duration of the course. The course is supported through CIT's Learning Management Systems and other communication systems.

It is delivered over 12 weeks (two evenings a week Tuesday & Thursday 6.30pm – 9.30pm); during the academic year.

### Resources and Materials

All learning resources required to successfully complete this programme are included. Students are also provided with as much personal tuition and support from CIT's experienced instructors/lecturers as they require throughout the programme.

### Validation

Computer Trade and Industry Association and Cork Institute of Technology.

### Closing Date for Application

Completed applications must be made online with CIT before 5pm on Friday 30<sup>th</sup> September 2016. Classes for Semester 1 will commence at the end of September 2016 and for Semester 2 will commence at the beginning of February 2017.



# VMware vSphere ICM & Optimise and Scale 6.0

(Level 6)

Course Code **CR\_KVMWR\_6**

## Course Fee

€2,250\* (see note below)

## Enquiries

Pat McCarthy

T: 021 433 5160

E: [computing@cit.ie](mailto:computing@cit.ie)

E: [pat.mccarthy@cit.ie](mailto:pat.mccarthy@cit.ie)



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKVMWR6](http://www.cit.ie/course/CRKVMWR6)

\*Includes the provision of an exam voucher which covers 70% of the exam total. This offer is only open to students who take a course under the VMware IT Academy.

The VMware vSphere 6.0 Install, Configure and Manage (ICM) & Optimise and Scale course is focused on VMware vSphere users who have completed a previous VMware vSphere VCP ICM course in either 4.1 or 5.0. However those who have no experience of VMware vSphere technology but wish to gain experience in the latest 6.0 vsphere architecture are also encouraged to apply. This course will teach both core and advanced skills for configuring and maintaining a highly available and scalable virtual infrastructure. Through a mix of lecture and hands-on labs, you will configure and optimise the vSphere features that build a foundation for a truly scalable infrastructure and discuss when and where these features have the greatest effect.

Anyone who is ready to take their understanding of vSphere to a deeper level and learn how to use advanced features and controls will greatly benefit from this course. The course is based on VMware ESXi 6 and VMware vCenter Server 6.

## Admission Requirements

The typical target audience for this course would come from the following roles within the IT industry. However, applicants from other areas are welcome to apply.

Systems engineers • Architects • Administrator • Architect Professional • VMware Professional • Experience with VMware vSphere hypervisor would be an advantage.

## Duration & Delivery

This course is delivered fully online using Adobe Connect (Virtual Classroom) and NETLab+ and VMware vCloud (Virtual Lab Environment). Lectures are recorded and can be streamed on an on-demand basis over the duration of the course. The course is supported through CIT's Learning Management Systems and other communication systems.

It is delivered over 12 weeks (two evenings a week Tuesday and Thursday 6.30pm – 9.30pm); during the academic year i.e. Semester 1: September 2016 and Semester 2: February 2017. However, there is flexibility to deliver the course at other times based on demand. The course is broken down into the following: 60% lecture, 40% hands-on lab. The first eight weeks of the course are given over to the vSphere 6.0 Install, Configure and Manage part of the course, while the following four weeks are focused on managing, optimising and scaling the VMware virtualised environment.

## Closing Date for Application

Completed applications must be made online with CIT before 5pm on Friday 30th September 2016. Classes for Semester 1 will commence at the end of September 2016 and for Semester 2 will commence at the beginning of February 2017.

# CIT EMC Academic Alliance Programme

Cork Institute of Technology became a member of the EMC Academic Alliance in 2010, the first such active EMC Academic Alliance Academy in Ireland to deliver professionally certified programmes to its students.

The main goal of the EMC Academic Alliance programme is to deliver training from its portfolio of courses to students participating in the areas of information storage management, cloud infrastructure services, backup and recovery and data analytics.

The EMC ISMv2 course is delivered online using a live virtual classroom using Adobe Connect supported by a Virtual Lab Environment on a VMware vCloud Platform.

## Course Fee

€2,250\* (see note below)

## Enquiries

Pat McCarthy

T: 021 433 5160

E: [computing@cit.ie](mailto:computing@cit.ie)

E: [pat.mccarthy@cit.ie](mailto:pat.mccarthy@cit.ie)

## EMC Information Storage Management

(Level 6)

Course Code **CR\_KCMXX\_6**

**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRKCMXX6](http://www.cit.ie/course/CRKCMXX6)**



\*Includes the provision of an exam voucher which covers 70% of the total cost of the exam. This offer is only open to students who take a course under the CIT EMC Academic Alliance.

## Admission Requirements

The typical target audience for this course would come from the following roles within the IT industry. However, applicants from other areas are welcome to apply.

- System Administrators • Systems Engineers
- SAN Administrators • Cloud Architects • Cloud Administrators
- Database Administrators • Technical Support Engineers
- Network Architects

The EMC Information Storage and Management (ISM) is a specialist course designed to bridge the knowledge gap in understanding varied components of information storage infrastructure in traditional and virtual environments. This course will provide the student with an excellent understanding of storage technology, which has become an integral part of infrastructure services in Cloud Data Centres. The course will build a strong understanding of underlying storage technologies for the student and enable the learning of more advanced terminology and technologies. As part of the course the student will learn about storage architectures along with the features, and benefits of intelligent storage systems; storage networking technologies such as FC-SAN, IP-SAN, NAS, object-based and unified storage.

Other areas that will be covered in the course include business continuity solutions such as backup and replication; information security and management, and the emerging field of cloud computing. This unique, open course focuses on concepts and principles further illustrated and reinforced with EMC product examples.

## Duration & Delivery

This course is delivered online over an academic semester (12 weeks) using the Adobe Connect (Virtual Classroom) software to provide streamed live delivery of lectures and the VMware vCloud (Virtual Lab Environment). The course communication between the learner and lecturer is supported through the Blackboard Learning Management System.

This course is normally delivered twice a year at the beginning of each academic Semester. However, there is flexibility to deliver the course at other times based on demand.

The course is broken down into the following: 60% lecture, 40% hands-on labs using a Virtual Lab Environment and EMC VNXe simulation software. This will give the student the necessary experience with the EMC SAN Unisphere navigation software system.

## Award

Students who complete this course will be entitled to take the following industry accredited certification exams EMC Information Storage Management Associate Exam (EMCISA) and the EMC Information Storage Management Exam (EMC ISMv2).

## Modules

Storage Systems  
Storage Networking Technologies and Virtualisation  
Business Continuity  
Storage Security and Management

## Closing Date for Application

Completed applications must be made online with CIT before 5pm on Friday 30th September 2016. Classes for Semester 1 will commence at the end of September 2016 and for Semester 2 will commence at the beginning of February 2017.

# NATIONAL MARITIME COLLEGE OF IRELAND

## Location

Ringaskiddy, Co. Cork.

## Head of College

Conor Mowlds

## DEPARTMENT OF MARITIME STUDIES

## Head of Department

Vivion Gough

## Enquiries

T: 021 433 5607

E: [admissions@nmci.ie](mailto:admissions@nmci.ie)

W: [www.nmci.ie](http://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 7th September 2016 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

## COURSE

- Bachelor of Business in Supply Chain and Transport Management (Level 7)



Education Award

WINNER



[www.nmci.ie](http://www.nmci.ie)

### Course Fee

€2,950

### Enquiries

Jane M. O'Keeffe

T: 021 433 5627

E: jane.okeeffe@cit.ie

# Bachelor of Business in Supply Chain and Transport Management

(Level 7)

Course Code **CR\_BSCTM\_7**



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBSCTM7](http://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](http://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 online with CIT before 5pm on 15th September 2016. Classes will commence 17<sup>th</sup> September 2016.

### Award

Bachelor of Business in Supply Chain and Transport Management (Level 7 on the National Framework of Qualifications).



# CIT CORK SCHOOL OF MUSIC

**Location**

Union Quay, Cork  
T: 021 480 7310

**Director of School**

Dr Geoffrey Spratt  
E: [geoffrey.spratt@cit.ie](mailto:geoffrey.spratt@cit.ie)

**Head of School**

Aiveen Kearney  
E: [aiveen.kearney@cit.ie](mailto:aiveen.kearney@cit.ie)

**The School consists of the following Departments:**

- Keyboard Studies
- String Studies
- Wind, Percussion, Voice & Drama Studies
- Musicianship & Academic Studies



# 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**

Individual Tuition

Recitals and Concerts

<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. This group specialises in singing large-scale works for choir and orchestra. In recent years it has performed Beethoven's *Mass in C*, Berlioz's *Grande messe des morts [Requiem]* (in both Wales and Ireland) and *Te Deum*, Borodin's "*Polovtsian Dances*" from *Prince Igor*, Brahms' *Ein deutsches Requiem* & *Nänie*, Bruckner's *Te Deum*, Angel Climent's *Missa solemne* & Motet: *Caro mea*, Dvorák's *Mass* (in both Germany and Ireland), Fauré's *Requiem*, Fleischmann's *Clare's Dragoons* & *Song of the Provinces*, Grieg's *Incidental Music for Peer Gynt*, Handel's *Messiah*, *Zadok the Priest* & *Chandos Anthem No.1*, Haydn's *Missa in tempore belle*, *The Seasons* & *The Creation*, Hummel's *Alma virgo*, Bryan Kelly's *Africa*, Mathias's *Ave Rex*, Mozart's *Requiem* & *Coronation Mass*, Orff's *Carmina Burana*, Poulenc's *Gloria*, Stainer's *The Crucifixion*, Vaughan Williams' *Serenade to Music and Hodie*, Verdi's *Missa da Requiem* (in both Germany and Ireland) and Vivaldi's *Dixit Dominus* &

*Gloria*, as well as music by J. S. Bach, Beethoven, Bernstein, Bizet, Britten, Clucas, Donizetti, Elgar, Holst, Mascagni, Mathias, Mozart, Parry, Puccini, Purcell, Stanford, Tchaikovsky, Vaughan Williams and Verdi, carols, folksong arrangements, gospel arrangements, Negro spirituals and opera choruses. The choir's programme for the 2008-2009 season included the first complete performances in Cork of Haydn's *The Seasons* with the RTÉ Concert Orchestra and a team of internationally-renowned soloists.

Details of the programme for the 2016-2017 season will be available from the School's Public Office on or after 1 September 2016.

Membership is open to enthusiastic and committed choral singers; auditions are held if the number of applications exceeds the number of vacancies for any given section.

Applicants should complete the application form available from the School's Public Office, T: 021 480 7301.

## 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 2016-2017 season will be available from the School's Public Office on or after 1 September 2016. Applications are welcome from external players who may be members of other bands, entry is subject to audition.

Applicants should complete the relevant application form available from the School's Public Office, T: 021 480 7310.

### 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.

### 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 19<sup>th</sup>- and 20<sup>th</sup>- 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 2016-2017 season will be available from the CIT Cork School of Music's Public Office

on or after 1 September 2016. 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 relevant application form available from the School's Public Office T: 021 480 7310.

## 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 (2016/17 fee to be confirmed).

## Individual Tuition

A limited number of vacancies may arise for individual tuition in singing, speech, theory of music 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, then consult the relevant Head of Department, and, finally, complete the relevant application form(s) available from the School's Public Office. T: 021 480 7310.



## Recitals and Concerts

The CIT Cork School of Music hosts a wide-ranging series of 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 to be found in the Music Diaries distributed free of charge by the School and Cork Orchestral Society each term/session.

**Further information may be obtained from the CIT Cork School of Music, Union Quay, Cork T: 021 480 7310.**



# 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](mailto: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, 8th September 2016, 6.00pm – 8.00pm. An information session will take place at 6.00pm and repeated again at 7.00pm. Students may enrol on the evening of 8th September for non-accredited courses and pay the course fee to secure their place.

## **Bishopstown Campus**

(Department of Media Communications courses)

An information evening will be held at the CIT Bishopstown Campus on Tuesday 6th September 2016, 6.00 – 8.00pm.

If you have any queries, please contact the College Secretary by E: [ccad.enquiries@cit.ie](mailto: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.

[www.cit.ie/ccad](http://www.cit.ie/ccad)

# COURSES

- MA in Art Therapy (Level 9)
- MA in Art and Design Education (Level 9)
- MA in Teaching Visual Arts for Primary and Early Years Education (Level 9)
- MA in Public Relations with New Media (Level 9)
- MA in Journalism with New Media (Level 9)
- MA in E-Learning Design and Development (Level 9)
- Certificate in Digital Media Design and Development (Level 8)
- Certificate in Art Textile (Level 8)
- Certificate in Media Production (Level 6)
- 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 8)
- Art Therapy Introductory Weekend Workshops
- Art Portfolio Preparation

## EVENING COURSES

- Life Drawing
- Drawing/Painting
- Textiles
- Photography
- Stained Glass
- Pottery

Evening courses are under review at the time of this Handbook going to press. Detailed course information, and to apply online will be available at [www.cit.ie/ccad](http://www.cit.ie/ccad) in July 2016.

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 have an online application process. Please visit your chosen course at [www.cit.ie/ccad](http://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 require a paper application form. Please contact the CIT CCAD office (T: 021 4335220 or E: [ccad.enquiries@cit.ie](mailto: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](mailto:ccad.enquiries@cit.ie)

#### Department of Media Communications

CIT Bishopstown Campus, Cork

T: 021 433 5810

E: [veronique.osullivan@cit.ie](mailto:veronique.osullivan@cit.ie)

# DEPARTMENT OF ARTS IN HEALTH & COMMUNITY PRACTICE

## Head of Department

Ed Kuczaj  
T: 021 433 5246  
E: ed.kuczaj@cit.ie

## POSTGRADUATE COURSE

- Master of Arts in Art Therapy (Level 9)

## WEEKEND COURSES

- Art Therapy Summer School
- Certificate in Principles of Art Therapy (Foundation Course) (Level 8)
- Certificate in Arts in Group Facilitation (Level 8)
- Creativity & Change (Level 8)
- Art Therapy Introductory Weekend Workshops
- Crawford Art Summer School

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 152/153 of this Handbook.

[www.cit.ie/ccad](http://www.cit.ie/ccad)



### Course Fee

Full-time: EU Applicants €7,950  
Part-time: Please email fees@cit.ie

### Enquiries

Ed Kuczaj  
T: 021 433 5246  
E: ed.kuczaj@cit.ie  
W: www.artincontext.eu

# Master of Arts in Art Therapy

(Level 9)

Course Code **CR\_ATHPY\_9**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRATHPY9](http://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 for the Creative Arts Therapies in Ireland, IACAT (Irish Association of Creative Arts Therapists).

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 a Garda Clearance procedure carried out by the Garda Clearance facilitator at CIT.

Offers of a place on this programme will be provisional and contingent on the applicant's satisfactory completion of CIT's Garda Vetting Procedure.

### 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.



## Weekend Courses

### Art Therapy Summer School 2016

#### Enquiries

Louise Foott E: [louise.foott@cit.ie](mailto: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 25th June – Wednesday 29th June. For further details please see [www.artincontext.eu](http://www.artincontext.eu).

### Certificate in Principles of Art Therapy

(Foundation Course) 2016 – 2017

Course Code **CR\_AATPY\_8\_Y1**

#### Application

Apply online at [www.cit.ie/course/CRAATPY8Y1](http://www.cit.ie/course/CRAATPY8Y1)

#### Enquiries

Louise Foott E: [louise.foott@cit.ie](mailto: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](http://www.artincontext.eu)

Entry to this course is by interview. Closing date for application is 31st August.

### Certificate in Arts in Group Facilitation

2016 – 2017

Course Code **CR\_AGRPA\_8\_Y1**

#### Application

Apply online at [www.cit.ie/course/CRAGRPA8](http://www.cit.ie/course/CRAGRPA8)

#### Enquiries

Louise Foott E: [louise.foott@cit.ie](mailto: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](http://www.artincontext.eu)

Closing date for application is 31st August.

### Creativity & Change

Course Code **CR\_AARPD\_8\_Y1**

#### Application

Apply online at [www.cit.ie/course/CRAARPD8](http://www.cit.ie/course/CRAARPD8)

#### Enquiries

[ccad.globalarteduc@cit.ie](mailto:ccad.globalarteduc@cit.ie)

This 10 credit Level 8 course explores the use of creativity in approaching issues of participation in global educational and action issues. The course combines presentations, case studies and group participation with a focus on experiential learning. The course is aimed at artists, youth workers, community workers, teachers, educators and volunteers who are interested in developing a global perspective in their practice. It runs over 8 weekends including three 3 day weekends (Friday – Sunday).

### Art Therapy Introductory Weekend Workshops

#### Enquiries

Louise Foott

E: [louise.foott@cit.ie](mailto:louise.foott@cit.ie)

W: [www.artincontext.eu](http://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](http://www.artincontext.eu).

### Crawford Art Summer School

#### Enquiries

Ed Kuczaj

T: 021 433 5246

E: [ed.kuczaj@cit.ie](mailto:ed.kuczaj@cit.ie)

#### Timetable

1st – 31st July

CCAD will be offering a number of short courses this July, 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.

- Introduction to Drawing
- Drawing and Painting from Life
- Introduction to Analogue Photography
- Introduction to Digital Photography
- 5 Day Life Drawing Marathon

Please check the CCAD website [www.cit.ie/ccad](http://www.cit.ie/ccad) or contact the CCAD Office E: [ccad.enquiries@cit.ie](mailto:ccad.enquiries@cit.ie)

# DEPARTMENT OF ART & DESIGN EDUCATION

## Head of Department

Albert Walsh

T: 021 433 5247

E: [albert.walsh@cit.ie](mailto:albert.walsh@cit.ie)

## COURSES

- MA in Art and Design Education (Level 9)
- MA in Teaching Visual Arts for Primary and Early Years Education (Level 9)

## SHORT COURSE

- Art Portfolio Preparation

If you have any queries, please contact the CIT CCAD office (T: 021 4335220 or E: [ccad.enquiries@cit.ie](mailto: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 152/153 of this Handbook.

[www.cit.ie/ccad](http://www.cit.ie/ccad)

### Course Fee

€4,500

### Enquiries

Albert Walsh

T: 021 433 5247

E: albert.walsh@cit.ie

# Master of Arts in Art and Design Education

(Level 9)

Course Code **CR\_AATDE\_9**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRAATDE9](http://www.cit.ie/course/CRAATDE9)



### Duration

2 Years

No of semesters: 5

No. of weeks per semester: 12

No. of timetable hours week: 6 – 8

This programme is aimed specifically at:

- Art and design educators at second-level, both experienced or newly qualified, who wish to further develop expertise in teaching art and design and who wish to advance their qualifications to MA Level.
- Community professionals with suitable qualifications with similar aspirations with regard to teaching visual arts.
- Art educators working within a wide range of educational sectors.

### Admission Requirements

Eligible applicants are those who hold a Level 8 Honours H2.2 Bachelor Degree in Fine Art or Design (or similar) and either:

- Higher Diploma in Arts for Art and Design Teachers or equivalent i.e. an older qualification or a recognised teaching qualification from another country or
- BA/BEd in Art and Design Education (Level 8) or
- An equivalent qualification in art and design education or
- Applicants who hold a teaching qualification in subjects other than art and design may also be considered.
- 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.

### Overview

The programme offers a flexible and accessible framework and delivery and is offered on a full-time or part-time basis subject to applicants' needs and module demand. The programme offers modules that will collectively explore the relevance of the visual arts, primarily, in the education of adolescents and adult learners. It exposes students to the crucial factors that impact on these processes.

It is designed to provide students with a wide range of theoretical and practical insights into how individuals learn through art and design.

The programme offers students the opportunity to further develop their knowledge and skills in art and design teaching to meet curriculum requirements or to develop effective teaching programmes in more informal educational settings.

The following themes of study are provided:

- Educational Policy and the arts in education
- Curriculum development and evaluation for art and design
- Visual Arts Practice, traditional and technological
- Aesthetics and Art Criticism
- Art Therapy
- Inclusive and Special Needs Education through Visual Arts
- Research Methodologies

### Award

Master of Arts in Art and Design Education (Level 9 on the National Framework of Qualifications).

# Master of Arts in Teaching Visual Arts for Primary and Early Years Education

(Level 9)

Course Code **CR\_ATAPE\_9**

## Course Fee

€4,500

## Enquiries

Albert Walsh

T: 021 433 5247

E: [albert.walsh@cit.ie](mailto:albert.walsh@cit.ie)



**Course & Module Information, and to apply online, visit [www.cit.ie/course/CRATAPE9](http://www.cit.ie/course/CRATAPE9)**

## Duration & Delivery

2 Years

No of semesters: 5

No. of weeks per semester: 12

No. of timetable hours week: 6 – 8

This programme is aimed specifically at:

- Educators at Primary level, both experienced or newly qualified, who wish to develop expertise in teaching Visual Arts and who wish to advance their qualifications to MA Level.
- Childcare professionals with suitable qualifications with similar aspirations with regard to teaching Visual Arts.
- Those involved in other related sectors of education. The programme is offered on a full-time or part-time basis subject to applicants' needs and module demand.

## Admission Requirements

Applicants are expected to have either:

- A BEd (minimum H2.2) for primary school teaching or equivalent recognised qualification or
- A BA (Honours) in Early Childhood Care and Education (Level 8) (minimum H2.2) or
- An equivalent qualification in primary, early years or special education

## Garda Vetting:

This programme may require applicants to undergo a Garda Vetting process. This requirement is due to the mandatory external placement element of the programme which will bring the applicant into contact with children or vulnerable adults and in which they will assume positions of trust.

## Overview

The programme offers modules that will collectively explore the relevance of the Visual Arts in the education of children from Early Years Education through Primary Level. It exposes students to the crucial factors that impact on this process. It is designed to provide students with a wide range of theoretical and practical insights into how children learn through the Visual Arts.

The programme is delivered through a flexible framework of formal lectures, tutorials and practical art and craft workshops. It offers students the opportunity to develop their knowledge and skills in visual arts teaching to meet curriculum requirements or to allow students to become visual arts specialists in their workplace.

The following themes of study are provided:

- The role of the Visual Arts in child development
- Planning and managing visual arts learning activities
- Visual Arts Practice, traditional and technological
- Art History and Appreciation
- Art Therapy
- Inclusive and Special Needs Education through Visual Arts
- Information and Communications Technology (ICT)
- Research Methodologies

## Award

Master of Arts in Teaching Visual Arts in Primary & Early Years Education (Level 9 on the National Framework of Qualifications).

### Application

Please email [ccadenquiries@cit.ie](mailto:ccadenquiries@cit.ie) or download form on [www.cit.ie/ccad](http://www.cit.ie/ccad)

### Course Fee

€480

### Enquiries

E: [ccad.enquiries@cit.ie](mailto:ccad.enquiries@cit.ie)

## Art Portfolio Preparation

(Saturday mornings)  
Course Code **CR\_AR015**

Timetable: Saturday 10.00am – 1.00pm

This course is currently under review. Updated information will be available at [www.cit.ie/ccad](http://www.cit.ie/ccad) in July 2016.

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, 8th September, 2016, 6.00pm – 8.00pm.

### Application

Please email [ccadenquiries@cit.ie](mailto:ccadenquiries@cit.ie) or download form on [www.cit.ie/ccad](http://www.cit.ie/ccad)

### Course Fee

€350

### Enquiries

E: [ccad.enquiries@cit.ie](mailto:ccad.enquiries@cit.ie)

## Art Portfolio Preparation

(7 Day Intensive Course)

This intensive seven day course, beginning 21st June 2016, is designed to assist and advise those developing a portfolio of work for entry into all Art and Design related courses. The course is suitable for both mature and Leaving Cert students. Two specialist lecturers take the students through a number of set projects involving areas such as: Drawing, Painting, Printmaking, Photography, Construction, and Life Drawing.

The course directs students on how to construct a well-balanced and individual portfolio with the students' specific career path in mind. The course runs from 10.00am to 4.30pm each day and includes a one hour lunch break. All specialist materials are supplied.

Places on this course are secured on a first come first serve basis on receipt of the fee. The course runs subject to minimum enrolment. Application deadline is 31st May 2016.



# DEPARTMENT OF FINE ART & APPLIED ART

## Head of Department

Trish Brennan

E: [trish.brennan@cit.ie](mailto:trish.brennan@cit.ie)

## COURSE

- Art Textile (Level 8 Special Purpose Award)

## EVENING COURSES

- Life Drawing
- Drawing/Painting
- Textiles
- Photography
- Stained Glass
- Pottery

Evening courses are under review at the time of this Handbook going to press. Detailed course information, and to apply online will be available at [www.cit.ie/ccad](http://www.cit.ie/ccad) in July 2016.

The evening courses generally run on week nights, one night per week over 20 weeks from October to April.

If you have any queries, please contact the CIT CCAD office (T: 021 4335220 or E: [ccad.enquiries@cit.ie](mailto:ccad.enquiries@cit.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.

For more information, please visit Pages 152/153 of this Handbook.

[www.cit.ie/ccad](http://www.cit.ie/ccad)

## Course Fee

Total: €3,800  
(4 instalments of €950 per semester)

## Enquiries

Pamela Hardesty  
T: 021 433 5255  
E: [pamela.hardesty@cit.ie](mailto:pamela.hardesty@cit.ie)

(Level 8 Special Purpose Award)  
Course Code **CR\_ATEXT\_8**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRATEXT8](http://www.cit.ie/course/CRATEXT8) 

## Duration

Two years part-time

## Overview

This course engages with the technical skills, the history and contemporary discourse regarding textiles in art contexts. This dynamic course offers an opportunity to study textiles part-time at undergraduate level, undertaking modules from the BA (Hons) in Contemporary Applied Art degree course as a part-time special purpose award. This part-time course is comprised of 6 taught modules; 4 technical applied workshop based modules, and 2 academic modules comprised of lectures and seminars.

The course offers an opportunity to study textiles in art contexts encompassing technical skill development with critical academic contexts at undergraduate level.

## Admission Requirements

Applicants should have a Level 6 National Framework of Qualification in Textiles, or equivalent experience in textiles techniques. Equivalency will be determined by portfolio at the interview stage.

## Early Assessment

Interviews take place in May/June at the CIT Crawford College of Art & Design. The portfolio should have previous textiles experience and any other art-related work (drawing, photography, sculpture, etc.). Large scale and/or heavy items can be documented as photographs.

## Content

This innovative course engages with the technical skills, history, and contemporary concerns relevant to textiles as a fine art medium.

The course provides the opportunity to explore an extensive range of textile processes; stitch, print, dye, felt-making,

paper-making, weaving and basketry in a fresh experimental approach. Students are introduced to research methodologies and approaches to concept development which inform the development of an individual approach to textiles in an art context.

The contextual academic modules provide an insight on the historical and contemporary influences that inform contemporary applied art contexts. The lectures are undertaken with degree students followed by lecturer-led seminar discussion focusing on textile art for students on this course only.

## Award

Art Textile Special Purpose Award (Level 8 on the National Framework of Qualifications).



# DEPARTMENT OF MEDIA COMMUNICATIONS

## Head of Department

Rose McGrath

E: [rose.mcgrath@cit.ie](mailto:rose.mcgrath@cit.ie)

## Department Secretary

Veronique O'Sullivan

T: 021 433 5810

E: [veronique.osullivan@cit.ie](mailto:veronique.osullivan@cit.ie)

## COURSES

- Master of Arts in Public Relations with New Media (Level 9)
- Master of Arts in Journalism with New Media (Level 9)
- Master of Arts in E-Learning Design and Development (Level 9)
- Certificate in Digital Media Design and Development (Level 8)
- Certificate in Media Production (Level 6)
- 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 152/153 of this Handbook.

**Please Note:** all courses run by the Department of Media Communications take place at the CIT's Bishopstown Campus.

[www.cit.ie/ccad](http://www.cit.ie/ccad)

### Course Fee

EU Applicants: €4,550

### Enquiries

Emmett Coffey

T: 021 432 6118

E: emmett.coffey@cit.ie

# Master of Arts in Public Relations with New Media

(Level 9)

Course Code **CR\_BPRNM\_9**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRBPRNM9](http://www.cit.ie/course/CRBPRNM9)



### Duration

This is a full-time programme which can be studied part-time, over two years.

### 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](http://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

[www.cit.ie/course/CRBPRNM9](http://www.cit.ie/course/CRBPRNM9)

CIT has developed a module 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.

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

Strategic Digital Marketing

Strategic Management 1

#### 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

#### Stage 2/Semester 1

PR Master 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 with New Media

(Level 9)

Course Code **CR\_HJWNM\_9**

## Course Fee

EU Applicants: €4,550

## 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](http://www.cit.ie/course/CRHJWNM9)

## Duration

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 growing new media environment, and on the increasing globalisation and convergence of the media industries.

## Admission Requirements

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 online journalism.

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](http://www.cit.ie/rpl).

## Content

### Stage 1/Semester 1

Audio-Visual Broadcasting One  
News Writing and Editing  
Media History & Structure  
Research Methods and Practice  
Multimedia Production  
New Media Workplace

### Stage 1/Semester 2

Audio-Visual Broadcasting Two  
Features and Web Writing  
Media Law, Ethics & Professional Practice  
Cybercultures  
New Media Production

### Elective

Studio Technology  
Free Choice Module

### Stage 2/Semester 1

Journalism Master Project

## Award

Master of Arts in Journalism with New Media (Level 9 on the National Framework of Qualifications).

Please note this course takes place at CIT Bishopstown Campus.

## Course Fee

€4,000

## Enquiries

Dr Gearóid Ó Súilleabháin

T: 021 433 5933

E: gearoid.osuilleabhain@cit.ie

# Master of Arts in E-Learning Design and Development

(Level 9)

Course Code **CR\_HELDE\_9**



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRHELDE9](http://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 and requirements with regard to lifelong learning, the knowledge-based economy, work-based learning and globalisation combine with the benefits of e-learning as a delivery and support tool to make e-learning one of the most rapidly growing sectors in the worldwide education and training and digital media industries.

## 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](http://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](http://www.cit.ie/course/CRHDMTE8) for more information.

In all cases final admission to the course will be on the basis of interview.

## Content

The programme is delivered entirely online using many of the same e-learning tools and technologies which also form the course curriculum. All registered students are also, uniquely, given access to a virtualised desktop which provides all their multimedia software and remote storage requirements for the duration of the course. 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

Closing date for application for course commencing in 2017 is 19th December 2016.



# Certificate in Digital Media Design and Development

(Level 8)

Course Code **CR\_HDMTE\_8**

## Course Fee

€275 per 5 credit module

## Enquiries

Dr Jessica Shine

T: 021 433 5933

E: [jessica.shine@cit.ie](mailto:jessica.shine@cit.ie)



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRHDMT](http://www.cit.ie/course/CRHDMT)

## 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. All registered students will be given access to a virtualised desktop which provides all their multimedia software and remote storage requirements for the duration of the course. 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 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)

(Please note not all of these electives will be available in any given year)

Equality: Policy & Practice

Marketing & Media Law

Digital Culture

Interpreting Sound & Music

Introduction to Digital Media

The Analogue & Digital Domain

## Award

Certificate in Digital Media Design and Development (Level 8 on the National Framework of Qualifications).

### Course Fee

€440 per module

### Enquiries

Brian Doyle

T: 021 432 6115

E: brian.doyle@cit.ie

# Certificate in Media Production

(Level 6)

Course Code **CR\_HMEDP\_6**

Course & Module Information, and to apply online, visit [www.cit.ie/course/CRHMEDP6](http://www.cit.ie/course/CRHMEDP6)



### Aim

To provide stand-alone modules for those who wish to gain knowledge in Media Design Production or to expand on their range of expertise in this area. Converting the part-time evening courses to a Level 6 Certificate on the National Framework of Qualifications; the modules facilitates employers and employees and those wishing to upgrade their skills by offering individual or multiple modules in an easily accessible, learner centred manner.

Graduates of this course will be able to:

- Demonstrate a practical and theoretical knowledge of design for print
- Demonstrate digital image creation and manipulation
- Present video production knowledge of the process of shooting and editing video
- Apply a range of interactive media, design and technical skills in the production and management of media types, which can be delivered via the web

### Admission Requirements

Candidates would be expected to have successfully completed the Leaving Certificate (or equivalent). Basic computer and keyboard skills are necessary. Recognition of Prior Learning (RPL) will be applicable for candidates, visit [www.cit.ie/rpl](http://www.cit.ie/rpl).

### Duration & Delivery

1 Year part-time

#### • Design for Print

Tuesday and Thursday, 7pm – 9pm. Semester 1

#### • Introduction to Video

Monday and Wednesday, 7pm – 9pm. Semester 1

#### • Digital Imaging

Tuesday and Thursday, 7pm - 9pm. Semester 2

#### • Web Design and Interactive Media

Monday and Wednesday, 7pm – 9pm. Semester 2

### Award

Certificate in Media Production (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.

# Certificate in Radio Broadcast Media

(Level 6)

Course Code **CR\_HBRME\_6**

## Course Fee

€440 per module

## Enquiries

Brian Doyle

T: 021 432 6115

E: [brian.doyle@cit.ie](mailto:brian.doyle@cit.ie)



Course & Module Information, and to apply online, visit [www.cit.ie/course/CRHBRME6](http://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 with New Media 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 and CIT's radio station will be available for use for the course.

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. Recognition of Prior Learning (RPL) will be applicable for candidates, visit [www.cit.ie/rpl](http://www.cit.ie/rpl) for more information.

## 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**  
Monday, 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.

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N.B. Fees quoted relate to the academic year 2016/17 only and may be subject to change.



E&OE

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**INFORMATION  
EVENING**

**6th/7th/8th September 2016**  
**See inside for details**

**CONTINUING  
EDUCATION**

Courses 2016 - 2017

**[www.cit.ie](http://www.cit.ie)**