



# MTU

Ollscoil Teicneolaíochta na Mumhan  
Munster Technological University

# MTU Cork School of Music

Performing Arts Degrees

Dr. Ciara Glasheen-Artem

Conservatoire Coordinator & Lecturer

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

## Four Level 8 Degree Courses

Bachelor of Music (CR121)

BA in Theatre & Drama Studies (CR700)

BA in Popular Music (CR125)

BA in Musical Theatre (CR130)



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# Bachelor of Music (CR121)

Classical Music

Jazz

Traditional Irish Music





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Ceol-Scoil Chorcaí  
Cork School of Music





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## BA in Theatre & Drama Studies (CR700)

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



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## BA in Popular Music (CR125)

**Now using one stream for all instruments:**

Electric guitar

Voice

Electric Bass

Keyboard

Drums



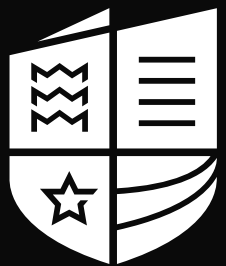
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# BA in Musical Theatre (CR130)

Singing  
Acting  
Dancing



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Cork School of Music







World-class, purpose-built facility



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# Thank You!

[csm.cit.ie/guidance](http://csm.cit.ie/guidance)

Dr. Ciara Glasheen-Artem

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# MTU

Coláiste Ealaíne is Deartha Crawford  
Crawford College of Art and Design

# MTU CRAWFORD COLLEGE OF ART & DESIGN

## OUR CREATIVE COMMUNITY

Catherine Fehily

14 January 2021

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



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## OUR CREATIVE COMMUNITY

MTU Crawford is a diverse & creative community exploring art, design, technology, culture, visual arts education & media.

*In the next slide you will hear what it means to be a Crawford student.*









# MTU

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Crawford College of Art and Design

## OUR NEW PROGRAMMES

### **The BA (Hons) in Photography with New Media**

- This course is now in its 2nd year and continues to develop as an exciting programme with a distinct professional emphasis.
- It blends photography, video and new media to prepare students to work creatively and flexibly in a variety of photography, video and media related areas.
- Based at the Envision Centre, which is a repurposed city centre campus of the Crawford at Sober Lane, adjacent to Sullivan's Quay.

*In the next slide you will hear more about this programme.*

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

A portrait of Catherine Fehily, an older woman with light brown hair, wearing a dark grey top and a green patterned scarf. She is standing in front of a white wall with two plastic chairs, one red and one blue, visible in the background. The text "Catherine Fehily" is overlaid in the bottom left corner.

Catherine Fehily

Head of CIT Crawford College of Art & Design





# MTU

Coláiste Ealaíne is Dearthá Crawford  
Crawford College of Art and Design

## OUR NEW PROGRAMMES

### **PME Art & Design with a second subject**

- We are currently developing a programme which will enable art students to qualify within 5 years with a PME Art & Design. Additionally, a second subject option will be embedded in the programme from year 2. Students can study Politics and Society, History or English.
- The development of this programme aims to meet the need for art teachers to bring a broader skillset to the educational setting, providing specific arts-based training around wellbeing and equipping arts educators for the wider challenges the future presents. It is envisaged this programme will run from September 2022.





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# OUR TRANSFERABLE SKILLS

TIME MANAGEMENT

OPEN MINDEDNESS

COLLABORATION

SELF - EXPRESSION

CREATIVITY

DISCIPLINE FOCUS

CONFIDENCE

OBSERVATION

NEGOTIATION

PERSEVERANCE

CRITICAL THINKING

RISK - TAKING

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



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# love what you do

## OUR LOVE WHAT YOU DO CAMPAIGN

The campaign aims to highlight the array of careers our graduates find themselves working in.

- Many of our graduates love what they do & we want to share their experiences.
- There will be a roll out of graduate videos from the campaign in 2021 on our website and through our social media.

*In the next 2 slides you will hear from 2 graduates who tell us why they love what they do.*

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

Activists Advertising Advertising Executive Animator Architectural Photography Art & Design Teacher in Second Level Education Art Administrator and Manager Art Collection Manager Art Critic Art Director Art Educator Art Educator in Further Education Art Educators in Third Level Art Historian Art Producer Art Professional Art Technician Art Therapist Art Therapist employed by state institutions Art Therapist working for independent/charity organisations Art Therapist working in private practice Artistic Director Arts Administrator Arts Educators in Community Education/Adult Education Arts Facilitator in Community/ Hospital/Health context Arts Officer Augmented and Immersive Experience Designer Branding Consultant Broadcaster Camera Operator Campaign Manager Ceramicist Clinical and Forensic Photographer Comic Book Artist Community Arts Community Arts Officer Community workers Craft Designer Creative Director Creative Industries Cultural Administrator Cultural Producer Curator Director Documentary Maker Editor Editorial Designer Educational Researcher E-Learning Author E-learning Consultant E-Learning Designer & Developer E-learning Manager E-learning Project Co-ordinator Entrepreneur Event Manager Events Photographer Exhibiting Artist Maker Fashion Photography Film Maker Gallery Assistant Game Designer Graphic Designer Illustrator In-House Designer Independent Art Educators Independent Artist Information Designer Instructional Designer Journalist Live Programmer Media Content Creator Media Law Professional Motion Graphics Producer Multimedia Developer Museum Archivist Museum Educator Music Technologist New Media Designer & Developer Online Content Creator Participatory Artist Photography Print Maker Public Relations Executive Researcher Sculptor Short Film Maker Social Media Manager Sounder Recorder Sports Photography Studio Director Studio Potter Textile Producer TV Producer Typographer UX UI Designer VFX Composer Video Editor Video Post-Producer Video Production Video Technician Videographer Virtual Reality Designer Web Design and Developer Web Designer Web Developer Web Writer Writer Youth Workers













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## OUR GUIDANCE COUNSELLORS & TEACHERS WEB PAGE

- This page will provide up to date information on the application process & gives access to helpful resources for you and your students.
- Including a presentation to support Guidance Counsellors & Teachers in advising students whose interests are in art, design and media.
- The presentation shows all of the programmes offered at the Crawford and how to apply. The graduate profiles and links to video clips included provide invaluable insights into the creative process from the perspective of Art & Design students.

The link is: <https://crawford.cit.ie/Guidance-Counsellors/>





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## APPLICATIONS 2020

We have amended our CAO application process in two ways:

- This year, we will be asking applicants to submit a digital portfolio.
- We will now allocate places on these courses, based solely on the portfolio score, rather than on Leaving Certificate points.
- Applicants must also have H5 in two subjects, and O6/H7 in four other subjects (the six subjects must include English or Irish).

*The next slide shows us a sample of video on creating a digital portfolio submission, presented by a student of the Crawford.*







# OUR CREATIVE COMMUNITY

## IT'S YOUR COURSE, YOUR FUTURE, YOUR CRAWFORD

- The Crawford has many connections please see the diagram of just some of who we work with.
- We now have delegated authority to supervise to PhD level. We now hope to expand our research community.
- Please visit our website for news updates, how to apply and much much more.

*In the next slide the video presents all the programmes delivered by the Crawford College of Art and design.*







BA (Hons) in **VISUAL COMMUNICATIONS**

Bishopstown Campus



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# Thank You!

For more information, please go to <https://crawford.cit.ie>

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# Faculty of Business and Humanities Update

ONLINE INFORMATION DAY FOR  
GUIDANCE COUNSELLORS

Gerard O'Donovan, Head of Faculty of Business & Humanities

14 January 2021

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

# Topics

- New programmes
- Spotlight on some existing programmes
- Spotlight on Work Placement
- MTU Arena
- MTU Enterprise Camp



# What we are all about



**Succeeding Together**

# BSc(Hons) in Global Business and Aviation Studies

## Stage 1 MTU

### Semester 1

Global Business  
Marketing  
Accounting  
IT  
Electives

### Semester 2

Cultural Studies  
Marketing  
Technological Maths  
International Management  
Communication  
Elective

## Stage 2 & 3 AFTA

### Sem 1

PPL 1  
ATPL 1

### Sem 2

ATPL 2  
ATPL 3

### Sem 3

PPL 2  
CPL  
MEP R

### Sem 4

MCC  
MEIR  
A UPRT

## Stage 4 (online)

### Block 1

Global Strategy  
(M)  
Economics (M)

### Block 2

Finance Mgmt (M)  
Operation and Projs  
Aviation Business  
HRM

### Block 3

Global Business  
Project  
Law  
Purchasing & Supply

# BSc (Hons) in Global Business and Pilot Studies

## Programme

- Start date to be confirmed
- Many prospective pilots want a 'college experience' and a degree.
- 15 - 20 enrolments per year
- Application through the CAO having completed an assessment for suitability to train to be a pilot with AFTA (Atlantic Flight Training Academy) or an equivalent ATO (Aviation Training Organisation)
- Cost to student - normal registration fee to MTU in Year 1, no registration fee to MTU in Year 2 and 3, Flight Training fees will apply, final year fees to MTU.
- Further Details: Dr Pío Fenton – [pio.fenton@cit.ie](mailto:pio.fenton@cit.ie)



# Bachelor of Arts in Culinary Arts - National Chef De Partie Apprenticeship



## STRUCTURE

**4 Year Degree programme, with Exit Award available on application after Year 2 (Higher Certificate in Arts in Culinary Arts - Level 6)**

YEAR 1



2 days per week  
in college during  
term time

YEAR 2



2 days per week  
in college during  
term time

YEAR 3



1 day per week  
in college during  
term time

YEAR 4



1 day per week  
in college during  
term time

## ENTRY

Applicants must have a pass in the Leaving Certificate or equivalent examinations, obtain a minimum grade O6/H7 in English, and O6/H7 in four other subjects

**OR**

A full QQI FE Level 5 Award

**OR**

Mature Applicants - Assessed through the Department

**Please Note**

If you hold previous qualifications, you may be eligible for advanced entry into year 2 or 3 of the programme

## HOW?

Be currently employed in,  
or obtain employment  
in a SOLAS approved  
establishment

## CONTACT INFORMATION

Dr Noel Murray  
Head of Department of Tourism & Hospitality  
Munster Technological University  
Bishopstown, Cork

T: 021 4335820  
E: [hospitality@cit.ie](mailto:hospitality@cit.ie)

## QUALIFICATION

Level 7 Bachelor of Arts in  
Culinary Arts on completion

# BA (Hons) in Social Care Work

## Programme

- Integration of health and social care professionals, in line with all government policies
- Employers looking for the social care worker degree in preference to other degrees for working across the spectrum of social care services, but in particular for professionals working with: youth, families, educational support services and elder care
- Programme is strengthened by its interdisciplinary focus across and within modules, and in particular, having 3 significant work placements over the 3 years
- Part-time flexible option for final year also available



## CIT Students Secure Permanent Contracts with PwC Based on Strong Performances on Placement

Six Bachelor of Business in Accounting CIT students, placed with PwC in January 2020, have secured permanent contracts with the company for next year based on their strong performance on placement.

The year 3 placement familiarises students with work practices and provides the opportunity to observe the practical application of theoretical knowledge gained on this programme.

"Work Placement is an integral part of the Bachelor of Business in Accounting and PwC provides CIT students with the real experience of working for one of the largest professional services firms in the world. For our students this is also an opportunity to contextualise their learning to date, develop new skills and for most confirms their chosen career path in accounting." - Claire O'Sullivan Rochford, Head of Department of Accounting and Information Systems.



"My six-month placement with PwC allowed me to strengthen my skill set and gain a vast amount of knowledge. It was interesting to see all of the knowledge I had acquired during my studies in CIT/MTU be used in real-life scenarios. I was trusted with substantial work which really allowed me to learn new skills." - Megan Neary



"I immediately felt part of the PwC team, thanks to the help and support I received from both my supervisors and colleagues. The valuable knowledge and practical skills I gained during my placement with PwC will help me in my final year of studies and future career." - Mairead Walsh



"When offered the opportunity to extend my placement at PwC by a further two months, I had no hesitation in accepting. CIT and PwC have facilitated my enthusiasm to constantly develop my skill set and continue to learn and grow as a professional. I am looking forward to rejoining the PwC Cork team in October 2021, having been offered a place on their graduate programme." - Lori McHale



"During my placement at PwC I learned a great deal about the company and the services they provide. I performed a variety of tasks including testing on bank recs and operating expenses and gained valuable knowledge during client meetings and from my managers." - Brian Lyons



"Working on different audit teams was always positive and every staff member on the team were always so kind and willing to help me in anyway they could. The support given to all interns was unbelievable all my managers, my mentor and my buddy helped me get the most out of my experience and not only cared about my learning but my personal growth too." - Victoria Brennan



"During my time at PwC I was able to see first-hand the different aspects that goes into running a successful company and the importance of each person's role in maintaining that success. It has been very rewarding learning new skills, while simultaneously applying what I have learned in CIT to the real world." - Maure Godley

"CIT's accounting programme continues to provide an excellent stream of talent to the accountancy profession. In my role as a senior manager in PwC, I am impressed with the calibre, capability and depth of accounting graduates. In my experience, the programme continues to serve these students very well when they sit their professional accounting examinations, as we see consistently in their excellent pass rates."

Shane O'Regan,  
Senior Manager,  
PwC



Contact us to connect your Enterprise with CIT. #CollaborateWithCIT

Call us today on +353 21 433 5302 to discuss a collaboration to suit your needs!



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## Accounting @MTU

- Exemptions - ACCA, CIMA, ACA and CPA
- Work Placement Mandatory
- PwC Case Study
- Pathways – BBus (Hons) in Accounting and Bachelor of Business (Hons)





## CIT Marketing Practice Student's Placement with ApisProtect Earns Digital Marketing Award

### Background

Honey bees play an essential role in global food production. One-third of all food that we eat depends on pollinators and there are 91 million managed beehives worldwide. Unfortunately, honey bees are in trouble.

ApisProtect uses unique intelligent sensor technology to provide beekeepers with a 24/7 early warning system to give at-risk hives immediate attention. ApisProtect gives beekeepers actionable insights and alerts to help prevent losses, improve bee health and increase the productivity of their hives.

### The Need

In preparation for its product launch, ApisProtect sought to promote its online presence and public relations. While beekeepers are aware of some assistive technologies, they require information and insights that are reliable and science-driven to choose the best product. ApisProtect contacted CIT to engage a marketing intern to increase brand awareness and highlight their reputation as experts in the bee monitoring technology industry.

### The Solution

ApisProtect selected Clara Janin, an MSc Marketing Practice student to join their marketing team on her placement. Clara's work was divided into two main tasks.

The first was to promote ApisProtect as experts in the beekeeping technology



MSc Marketing Practice student Clara Janin

industry and to attract potential leads to subscribe to their mailing list. The second was to conduct in-depth market research to identify leads.

### Benefits of the Engagement

Clara played a supporting role at ApisProtect under the supervision of the Head of Marketing. Clara's skill set and marketing knowledge helped to increase ApisProtect social media following by 118% in a year and its newsletter subscribers list by 289% in a year.

In addition to her tremendous work on social media, Clara assisted ApisProtect to identify potential leads through in-depth market research. She also designed ApisProtect's new website from scratch, optimising it for search engines by conducting keywords search, speed tests, on-page, off-page and

technical SEO, etc.

Clara's impressive work with ApisProtect was acknowledged by the wider business community when she received the Cork Chamber Best Digital Marketing Student Award 2020.

Aoife O'Mahony, Head of Marketing at ApisProtect said, "We were delighted to add Clara to our team this year. A bonus was when we nominated Clara for the best Marketing Student award in the Cork Chamber Social Media Awards and she won."

*"ApisProtect has worked with CIT for the past few years on a number of marketing projects. The duration and structure of the Marketing Practice placement ensures value for us as an organisation and for the student."*

- Aoife O'Mahony, Head of Marketing, ApisProtect



Contact us to connect your Enterprise with CIT. #CollaborateWithCIT

Call us today on +353 21 433 5302 to discuss a collaboration to suit your needs!

## MTU Unique Learning

- Work Placement
- Authentic Assessment
- Live Cases
- Impact

**Jack Milne, BBADM Graduate**

Client Associate at Clearstream Global Securities Services

“Studying Business Administration in CIT was the best decision I’ve ever made. Through this course, I gained a vital understanding of all aspects of the business world, such as information systems, modern technology, human resources, law, accounting, the European Union, and much more. The best way to define Business Administration is with the words, “Enjoyability” and “Employability”.

**Rebecca Hyland, BBADM Graduate**

Deal Management Team Member at VMware

“My placement in Dell-EMC as a Marketing and Sales assistant, in Renewal Sales, allowed me the opportunity to develop and learn new skills that will undoubtedly be beneficial throughout my future career.

## Business Admin @MTU

- 60 places
- Work Placement Mandatory
- Diverse Job Opportunities



ASA<sup>?</sup>  
marketing  
group

YOUR BRAND  
OUR PROMISE

Michelle Johnson

CEO, ASA Marketing



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## MTU Arena



## MTU Arena





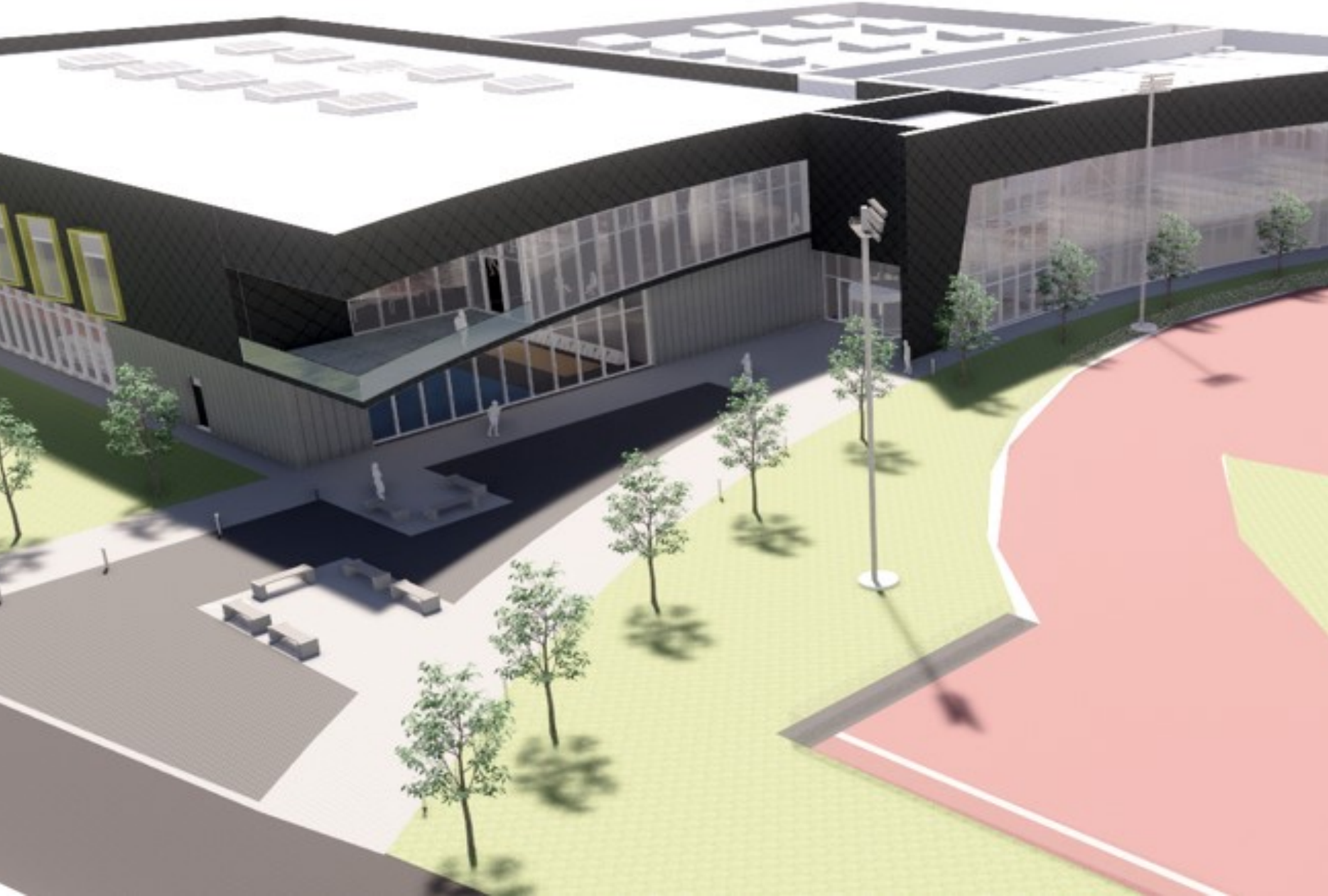
## MTU Arena





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## MTU Arena



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# Presentation

## State of the Art Facilities

- BBus (Hons) in Sport & Exercise Management programme in September 2020.
- BEd (Hons) in Montessori Education programme in September 2020.
- Developing a new BSc (Hons) in Coaching Science & Performance programme

## MTU Enterprise Camp

- Free and open to 14 -16 Year olds
- Applications open March to May
- 28<sup>th</sup> June to 2<sup>nd</sup> July
- Site Visits & Meeting Entrepreneurs

More Information:

<https://hincks.cit.ie/enterprisecamp>

[www.facebook.com/MTUenterprisecamp](https://www.facebook.com/MTUenterprisecamp)







# MTU

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# Thank You!

For more information, please email [gerard.odonovan@cit.ie](mailto:gerard.odonovan@cit.ie)

Gerard O'Donovan

14 January 2021





# MTU

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Munster Technological University

# Faculty of Engineering & Science

MTU Cork

Tim Horgan, Head of Faculty

14 January 2021

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



## School of Science & Informatics

- Department of Biological Sciences
- Department of Physical Sciences
- Department of Computer
- Department of Mathematics

**Dr Brendan O'Connell, Head of School**

## Department of Biological Sciences

- CR335 Biological Sciences (Common Entry)
- CR320 Biomedical Science
- CR325 Pharmaceutical Biotechnology
- CR333 Nutrition and Health Science
- **CR370 Agri-Biosciences**
- CR006 Applied Biosciences (L7)



# BSc (Hons) Agri-Biosciences

- **COVID-19 & Brexit** - production and biosecurity of food produced from this sector is of crucial importance. This further highlights need for excellent scientists armed with biological and agricultural tools.
- **Thematic areas** within this programme and Agri-Biosciences themed research include genomics, animal breeding, animal health and immunology, microbiome analysis, DNA technologies, environmental impact, and bioinformatics. Skills directly required by industry.
- **New modules** developed in collaboration with industry partnerships include Veterinary Diagnostics and Quantitative Genetics.
- **Industry Research & Placement Partnerships** - Development of new (and existing) industry research and 6-month placement partnerships with Nutribio, Kerry, Glanbia, Fethard Equine Hospital, Marigot, Dairy Concepts, SynLab, Animal Health Laboratories, Bandon Vale, Teagasc (among others)

# BSc (Hons) Agri-Biosciences continued ....



- **Agri-Biosciences** programme team have been involved in many **nationally funded research projects** (such as GreenBreed, Dairy4Beef, 3DDairy and GrassToGas) resulting in funding in excess of **€5 million**. Recruiting of **10+ postgraduates** in this field in same period.
- **Destination of First Cohort** of Graduates – **Postgraduate**; PhD in Animal Genetics, PhD in Pig Health, MSc in Computational Biology & Bioinformatics. **Industry** - Diseases Diagnostics (AHL, Enfer Labs), Meat Quality Testing (ABP), Laboratory Analysis (Eurofins).
- **Industry collaborators/links** include Munster AI, LIC, National Cattle Breeding Centre, Dovea AI, ICBF, Weatherbys, Progressive Genetics, Zoetis, Animal Health Laboratories, SynLab, Chanelle Pharma, Gold Crop, Germinal, ABP Food Group, Glanbia, Devenish, Dairygold, KEPAC, Eurofins, Allte

## Department of Physical Sciences

- CR305 Physical Sciences (Common Entry)
- CR340 Analytical Chemistry with Quality Assurance
- CR360 Instrument Engineering
- CR365 Environmental Science and Sustainable Technology
- CR300 Physical Sciences (Common Entry) (L7)
- **CR001 Applied Physics and Instrumentation (L7)**
- CR007 Analytical and Pharmaceutical Chemistry (L7)





# Intel Women in Technology Scholarships 2021

Congratulations to 4th Year student

**Darerca Kane**

BSc (Hons) Applied Physics &  
Instrumentation

# Scholarships

<https://www.cit.ie/scholarships>



# Some more highlights

- **BSc Hons Industrial Physics (CK409)** - first cohort will graduate this year.
- **BSc (Hons) Environmental Science & Sustainable Technology (CR365)** programme - increased engagement with the EPA and being selected as an equivalence monitoring site (essentially, we are benchmarking EPA test equipment). Some links:
  - <https://www.epa.ie/air/quality/data/cit/>
  - <https://airquality.ie/station/EPA-30>





# Dr Seán McSweeney

## Department of Computer Science

- CR106      Software Development
- CR116      Computer Systems
- **CR310      IT Management**
- CR016      Software Development (L7)
- CR888      Information Technology (L7)



## Dean Brennan, 3<sup>rd</sup> Year **IT Management**

*“After talking to lecturers and students at an open day I knew what I wanted to study”*

*“Don’t worry about it and don’t follow the money — follow your interests.”*

**Irish Independent** 

## SALI Chair of Cybersecurity

**Dr Donna O'Shea**, former Head of Department of Computer Science at MTU-Cork appointed **Chair of Cybersecurity**.



## MTU-Cork Wins Significant Funding to Meet Skills Needs

MTU-Cork is the lead partner in **CYBER-SKILLS**, a project that has been awarded **€8.1 million in funding** to address the skills shortages in the cybersecurity sector.

## World Leading Researchers

**Dr Mubashir Husain Rehmani**, a lecturer in the Department of Computer Science at Munster Technological University (MTU) Cork **has been ranked in the top 1% of the most influential researchers worldwide in the field of Computer Science.**





## Dell and MTU team up for Artificial Intelligence platform

Dell has teamed up with MTU-Cork on a new artificial intelligence platform, with the technology company providing a new supercomputer to the institute.



# Education

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## A Global Success Story

**Engineering and Innovation at  
Munster Technological University**



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## School of Mechanical, Electrical & Process Engineering

- Department of Mechanical, Biomedical & Manufacturing Engineering
- Department of Process, Energy & Transport Engineering
- Department of Electrical & Electronic Engineering

**Dr Matt Cotterell, Head of School**

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

## Department of Mechanical, Biomedical & Manufacturing Engineering

- CR108 Mechanical Engineering
- CR520 Biomedical Engineering
- CR071 Mechanical Engineering (L7)
- CR075 Biomedical Engineering (L7)

# Integrated five-year MEng programmes

- **Integrated five-year MEng programmes in Mechanical and Biomedical Engineering** - Suitably qualified students of the BEng(Hons) degree programmes in Mechanical and Biomedical Engineering can opt to progress to final year of their respective BEng(Hons) course at the end of third year of their studies or embark on a further two years of study to obtain an MEng.
- The content seeks to reflect current and likely future practice in engineering analysis, design, design appraisal, experimental techniques and the use of computational tools. It aims to provide the graduate with the advanced conceptual understanding, detailed factual knowledge, and specialist technical skills that are required for career success in industry and research. Graduates of the programme will be well equipped to achieve full membership of Engineers Ireland and the Institution of Mechanical Engineers.
- First graduates from the full-time Integrated MEng programmes in Mechanical and Biomedical Engineering will graduate in from MTU in 2021.



# BEng Apprenticeship Programme (L7)

- **BEng in Manufacturing Engineering** - Fourteen L7 graduates from the new apprenticeship programme in Manufacturing Engineering graduated from CIT in 2020.
- **Three-year degree programme**; apprentices complete one semester per year in MTU and the remainder of their training is on-the-job with their employers.
- **A manufacturing engineer** facilitates efficient operations within the production area, to optimise existing processes, implement new processes and to ensure that production goals are met. The engineer is trained to train to monitor and continually improve the performance of modern automated production equipment and systems.
- **Employers of first graduating class** include Alcon, Boston Scientific (Clonmel), De Puy Synthes, Integer (Lake Region), and Stryker.

# ICBBBS Barcelona 2020

International Conference on Biotechnology,  
Bioengineering and Biological Solutions



## Cathal Merz, Master of Engineering in Mechanical Engineering - Best Presentation Award (2020)

The International Conference on Biotechnology, Bioengineering and Biological Solutions brings together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Biotechnology, Bioengineering and Biological Solutions.



## ICBBBS Barcelona 2020

International Conference on Biotechnology, Bioengineering & Biological Solutions

**Best Presentation Award**

**Cathal Merz - Cork Institute of Technology**

Supervisors Dr. Gareth O'Donnell and Professor Ger Kelly

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



# Global Student Innovation Challenge 2019

## iCreate International Convention on Rehabilitation Engineering and Assistive Technology Canberra Australia

### First Place Technology Gold Award - StrydeTech



### Multi-disciplinary Mechanical - Biomedical Engineering team

**StrydeTech** were represented at the global finals by **Muireann Hickey** (team leader) and **Kevin Hayes** (product advancement coordinator)

- Overall, First Place Technology Gold Award
- Best Presentation Award
- Public Choice Award

[https://issuu.com/educationmagazine/docs/education\\_magazine\\_33-3?fr=sYzJmMjIxMTA5NTA](https://issuu.com/educationmagazine/docs/education_magazine_33-3?fr=sYzJmMjIxMTA5NTA)

# Succeeding Together

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

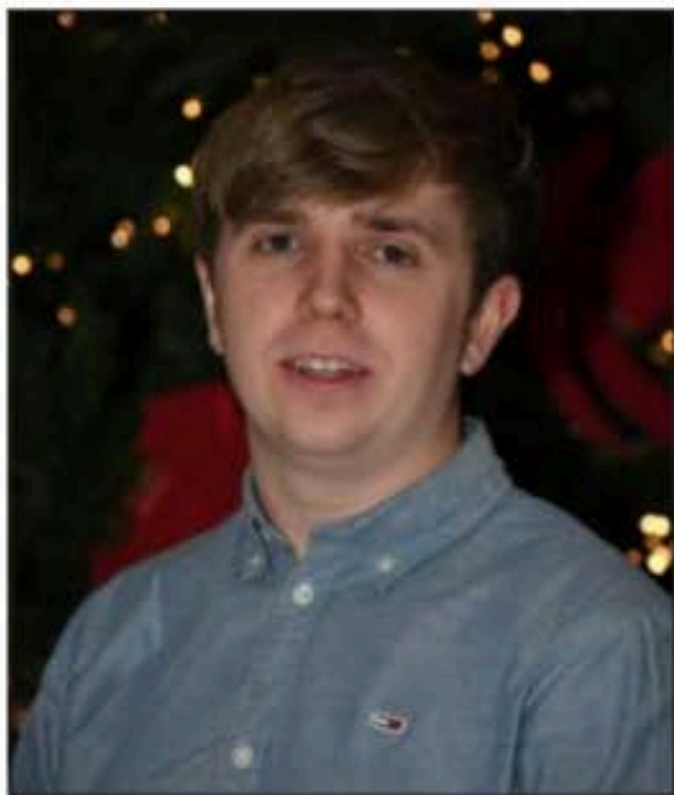


# Mr Niall Morris

## Department of Process, Energy & Transport Engineering

- CR105 Chemical and Biopharmaceutical Engineering
- CR105 Automotive Business Management and Technology
- CR510 Sustainable Energy Engineering
- CR046 Automotive Technology and Management (L7)

**meeta**  
THE ASSET MANAGERS



# **MEETA - Asset Managers Society**

**First Place National Student Award Winner 2020**

## **Jack Murphy, Sustainable Energy Engineering**

**"Energy Optimisation of Compressed Air at Thermo Fisher Cork"**



CORK Institute of Technology's Jack Murphy, Sustainable Energy Engineering, has won the MEETA Asset Management and Maintenance Student Project National First Place Award 2020.

Jack's National First Place Award was announced at the MEETA Asset Management Awards Ceremony, which took place Today Thursday 26th November at the high profile MEETA Asset Management National Virtual Conference "Restoring Vision from 2020".

Jack's national award winning

project concerns the "Energy Optimisation of Compressed Air at Thermo Fisher Cork" and was carried out in conjunction with Thermo Fisher Cork by Jack to fulfil the requirements of his final year individual Sustainable Energy Engineering Level 8 Degree project for the academic year 2019/20.

Jack's project was carried out under the supervision of Mr. Edmund Collins of Thermo Fisher Cork and Senior Lecturer Chris Gibbons of CIT.

Following written submission and short-listing, Jack presented his

undergraduate capstone project before a distinguished panel of leading industrial experts in the field of Asset Management and Maintenance competing amongst a very strong nationwide entry of students at both Undergraduate Level 8 and Masters Level 9, who presented over 2 days at the national virtual finals.

A super national achievement for Jack under the as always brilliant supervision of Senior Lecturer Chris Gibbons and for all involved at Thermo Fisher Cork and CIT.

# Dr Martin Hill

## Department of Electrical & Electronic Engineering

- CR580 Electrical Engineering (L8)
- CR590 Electronic Engineering (L8)
- CR061 Electronic Engineering (L7)
- CR062 Electronic Engineering (L7)



# Smart Product Engineering (SPE)

- **New L8 programme** focusing on smart product design and development. Under development with entry via **CAO “available places”** in 2021.
- **Smart Product Engineering (SPE)** is complementary to existing programmes in Electronic Engineering and Mechanical Engineering but has a different approach in that it concentrates on developing product solutions from the outset whereas existing programmes tend to start with component analysis and then build up into an integrated system.
- **Multi-disciplinary approach** from the outset; this programme combines electronic engineering with manufacturing techniques and design methodologies to identify/develop products and systems to meet customer requirements. This is a practical-oriented programme underpinned with mathematics/engineering science modules set in an innovative business context.

# Smart Product Engineering continued ...

- **Innovative delivery** - By contrast with existing engineering programmes, SPE will adopt a studio based approach where students work on a problem based learning and assessment curriculum. The first year experience will expose students to an open-ended design exercise where they will develop and test a working prototype product in a new “Maker Space” laboratory.
- **Entry Requirements** - Leaving Certificate examination in six subjects i.e. H5 in two subjects, and O6/H7 in four other subjects. The six subjects must include Mathematics\*, and either English or Irish. \*Minimum entry requirements for Mathematics is Grade 03/H6





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## School of Building & Civil Engineering

- Department of Civil, Structural and Environmental Engineering
- Department of Construction
- Department of Architecture

**Dr Joe Harrington, Head of School**

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



# Mr Des Walsh

## Department of Civil, Structural & Environmental Engineering

- CR109 Structural Engineering
- CR500 Engineering (Common Entry)
- CR051 Civil Engineering (L7)
- CR055 Environmental Engineering (L7)

# Progression options for students

- **BEng (Hons) in Structural Engineering (CR109)** students now have the option to remain in 4-year L8 programme or to transfer to an integrated masters' degree programme and complete an **MEng in Structural Engineering** or an **MEng in Civil Engineering (Environment and Energy)** need H22 in year 3. A full semester of work placement is a feature of the integrated masters programmes.
- **Civil Engineering (CR051)** graduates who progress into year 3 of the BEng (Hons) Structural Engineering programme have the same options.
- Level 7 graduates across the AEC disciplines now have a progression opportunity with the **BSc (Hons) in Building Information and Modelling Management** programme and Level 9 PGDiploma and MSc programme will also shortly be available in the discipline. The area of 'Digital Construction' is a rapidly evolving sector with opportunities and funding reflective of government and industry commitment to the growth of digitisation in the sector.

# Dr Daniel Cahill

## Department of Construction

- CR570 Quantity Surveying
- CR572 Construction Management
- CR052 Construction (L7)



# Ms Katherine Keane

## Department of Architecture

- CR560 Architectural Technology
- **CR565 Interior Architecture**
- CK606 Architecture (joint UCC/MTU Programme)
- CR090 Architectural Technology (L7)
- CR053 Interior Architecture (L7)



Universal Design  
Grand Challenge  
2020



Centre for Excellence  
in Universal Design

**NDA**  
National Disability Authority  
Oideán Náisiúnta Mionúdha



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# Universal Design Grand Challenge Awards

- Virtual Finals Dublin 11th November 2020

**First Place National Award Winner  
2020 - Built Environment Category**

**Lydia Rose Morgan**

**Interior Architecture, Cork Institute of Technology**

**"Wandesford Quay Intergenerational Community Hub"**

Supervisors: Dr Marc Ó Riain and Dr Jason O'Shaughnessy, Department of Architecture



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# National Maritime College of Ireland

- Department of Maritime Studies

**Mr Cormac Gebruers, Head of College**



# Capt. Sinéad Reen

## Department of Maritime Studies

- **CR805**     **Marine Electrotechnology (L7)**
- CR094     Nautical Science (L7)
- CR095     Marine Engineering (L7)

# BEng in Marine Electrotechnology

- Provides students with a deep understanding of maritime electronics, communications and information technology.
- Graduates also secure a globally recognised professional maritime qualification issued under the International Maritime Organisation's Standards of Training, Certification and Watchkeeping for Seafarers (STCW) Convention.
- That qualification enables successful graduates to work as electro-technical officers on board the modern, large, complex and sophisticated ships that transport 90% of all goods worldwide.
- As the maritime sector becomes increasingly digitised and automated and as operational resilience & reliability and cybersecurity concerns increasingly come to the fore, Electrotechnical graduates and officers are keenly sought by the maritime industry Worldwide due to their unique skillset.



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

Thank you, or more information, please email [tim.horgan@cit.ie](mailto:tim.horgan@cit.ie)

Tim Horgan

14 January 2021

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



# National Maritime College of Ireland

Guidance Counsellor Update; 2021-2022 intake

Cormac Gebruers

14th January 2021



## 1. What does NMCI do?

- NMCI is the island of Ireland's *only* 3rd level Institution for Professional Maritime and related Education & Training.
- All our current undergraduate programmes are maritime focused
- NMCI provides programmes to support the CPD education needs of the southwest region's supply chain sector – pharma, agri-food, ICT etc.
- NMCI provides CPD support to circa 3,500 international maritime professionals and circa 600 Irish Naval Service personnel
- NMCI plays a central role in training the national emergency services – NAS, NFS, IRCG, RNLI & Defence Forces
- NMCI is an internationally recognised centre for maritime research





## 2. The lesser spotted Maritime Career...

Today's maritime career pathways go way beyond being a professional mariner working at sea

Many chose to remain at sea long term because the quality of life and rewards are excellent

Many others however spend between 7 & 12 years seagoing before moving into a diverse array of shore-based roles...





## 2. Shore-side Career Paths

- Supply Chain including transport & ports
- Regulatory, Health & Safety, Search & Rescue
- Energy, Pharmaceutical
- Precision Engineering, Facility Engineering
- Law, Finance, IT, HR
- Education, training & Research
- Senior, Executive Management & Leadership
- **Offshore renewables - offshore wind!**



### 3. Identifying a potential Maritime Professional...

Do you have a student who:

- is resilient – mentally & physically
- is practical and enjoys working with their hands
- enjoys being outdoors
- is a team player while also being happy to work on their own





### 3. Identifying a potential Maritime Professional...

- is highly motivated - when they're doing something that they like..!
- enjoys responsibility
- is independent of mind
- is courageous/brave
- is “straight talking” – may present as blunt!





### 3. Identifying a potential Maritime Professional...

- is decisive - may present as impatient!
- is intelligent but *perhaps* not overly/overtly academic
- is a generalist?

**They may be suited to a maritime career...**



## 4. BSc / BSc (Hons) in Nautical Science

Code; CR094

Points; 243

Places; 48

Outcomes:

1. L7 (L8) MTU Degree
2. STCW Deck Officer CoC

*Seamanship programme; Vocational pathway...*





## 4. BEng in Marine Engineering

Code; CR095

Points; 255

Places; 40

Outcomes:

1. L7 MTU Degree
2. STCW Engineering Officer CoC





## 4. BEng in Marine Electrotechnology

Code; CR805

Points; 235

Places; 20

Outcomes:

1. L7 MTU Degree
2. STCW Electro-Tech Officer CoC



## 5. What students should know when applying to NMCI

Low CAO points but programmes are academically quite demanding. There are great academic supports however...

Regulatory Eyesight & Medical requirements – **non negotiable!**

NMCI Open Day – students strongly encouraged to attend

NMCI Information sessions – it is critical that students attend

In coming years – suitability assessment process will be reintroduced (22-23 intake)





## 5. What students should know when applying to NMCI

*There is zero-tolerance for substance abuse in the maritime sector today.*

*Any student (cadet) failing a shipping company drug or alcohol test, will not be offered any further sea time...*





## 6. What NMCI students experience...

Programmes are intensive due the dual-qualification outcome:

- A University Degree
- A globally recognised, internationally regulated professional qualification
- Between 9 and 15 months sea time

A wonderful mix of theory & practice in a World class Facility and at sea

An incredibly rewarding experience with virtually guaranteed employment on completion

A close-knit small student group that includes, Irish, European and international students

Friendships & professional relationships that will last a lifetime

# Thank You

For more information, please email [Cormac.Gebruers@nmci.ie](mailto:Cormac.Gebruers@nmci.ie)

Cormac Gebruers

14<sup>th</sup> January 2021



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# AnSEO – The Student Engagement Office

**Learning development and supports to enable student success**

Marese Bermingham

14 January 2021



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



# A flyby of established SE programmes:

Some **signposts** useful to incoming students:

- Good Start Student Induction Programme
- Academic Learning Centre
- Academic Success Coaching
- Transitions at MTU projects

## Some new developments in 20/21

- EDGE<sup>3</sup>
- Le Chéile -*Together*
- Reach Academic Mentoring





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## Good Start Student Induction Programme/Just Ask Campaigns

- By students for students...
- 25 Trained Good Start Ambassadors
- 4 themed weeks in Semester 1
- 2 weeks Semester 2
- Pivoted to remote successfully, Facebook, Instagram, Snapchat, live Q&A > 60,000 hits!
- >1,000 students at virtual Get Connected events.



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## Academic Learning Centre

- Free 'Drop-in' extra tuition sessions and online resources
- Open to all students (Online since March)
- Subject lecturers
- Casual, friendly, relaxed atmosphere
- Maths and Stats, Academic Writing, Accounting, Economics, Programming, Chemistry, Physics, Mechanics, Thermofluids.
- Easter and Summer Programmes



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# Academic Success — Coaching —

## Academic Success Coaching

- Open to all students
- Supports successful progression
- One to one and Group sessions
- Setting academic goals and challenges
- Builds positively on students' experiences of learning to date
- Develops skills to improve academic performance

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## Transitions Projects at MTU

- 20+ projects this year
- Led out by academic departments and central student services
- Staff/student Icebreakers/ Events
- Get Connected events and Competitions
- In, through and out....



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# New Student Engagement Developments 20/21...



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Some signposts useful to incoming students:

- **EDGE<sup>3</sup>** – Graduate Development Framework
- **Le Chéile** – *Together*: Students and Staff working together to enhance the student learning experience



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# Reach Academic Mentoring

**Reaching out, reaching in.... Creating connectedness...**

**Our challenge...**

**Creating presence and connectedness during Covid 19**

**Our response...**

- An extra layer of academic support and development in challenging times
- Targeting First and Second Year students
- Academic Mentors from the students' home department
- Coaching skills training and supervision available for all AMs
- In S1 : **56 AMs** in place reaching out to **>2,000** students



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Marese Bermingham

14 January 2021

For more information, please email  
[marese.bermingham@cit.ie](mailto:marese.bermingham@cit.ie) or have a  
look at our webpages:  
<https://studentengagement.cit.ie/>



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



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# MTU Careers Communications

Highlights, First Year Supports & Future Skills Insights

Treasa Morgan, Careers Officer

14 January 2021

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



# Introduction

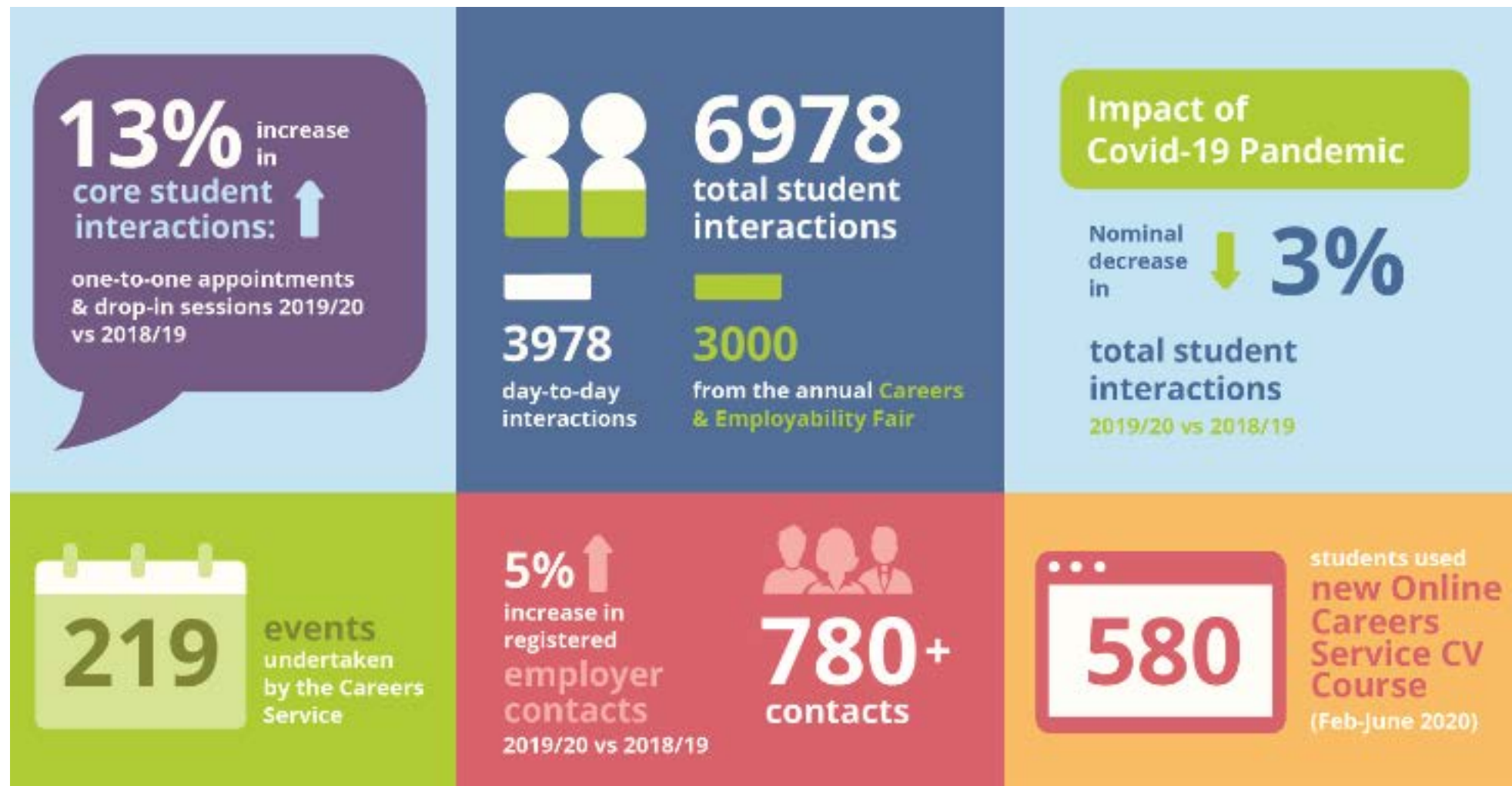
## Building Careers Together

- Careers highlights 2019-20
- Supporting first year students
- Skills for future graduate success

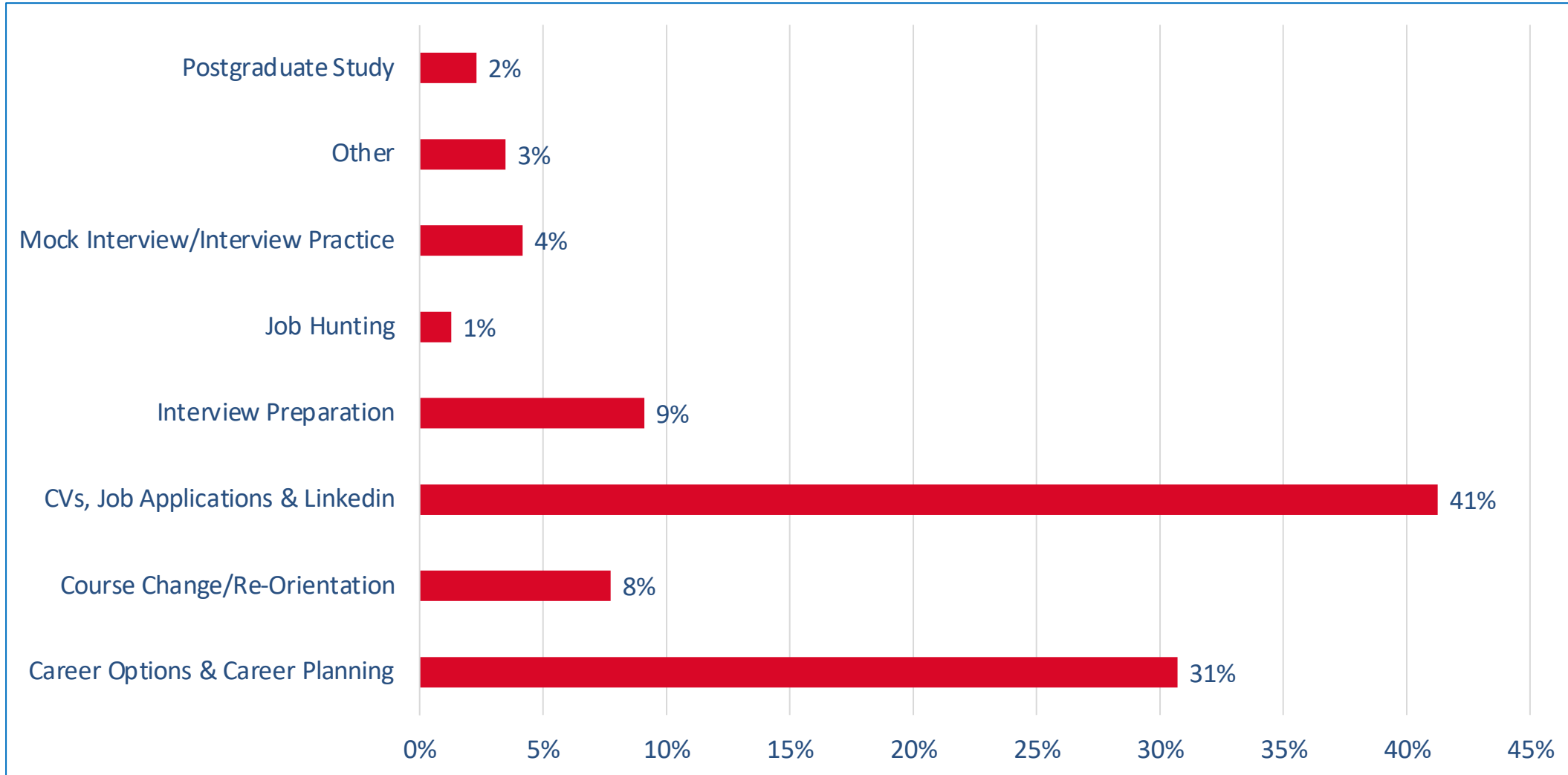
Note: Graduate Outcomes Survey (GOS) for 2019 cohort was cancelled by the HEA in March 2020. GOS 2020 cohort will go ahead as planned.



# Careers Highlights 2019-20

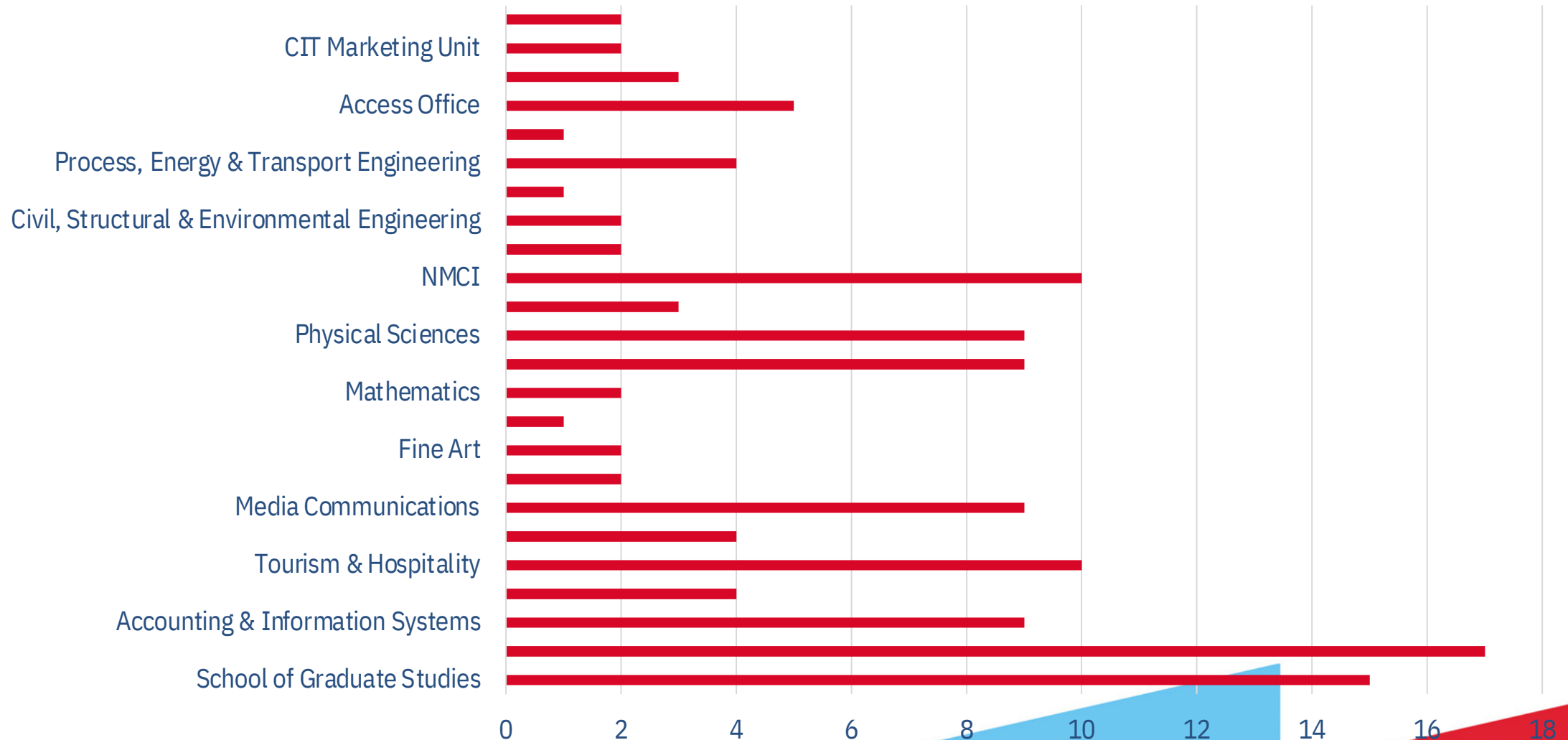


# Reasons students engage with us...





# Engaging across departments



## Supporting first year students

- Career Consultations – Quick Queries – CV, LinkedIn, Cover Letter Review
- In-class workshops & talks
- E-Learning courses
- Joint Mentorship Programme
- Employer & Careers Webinars
- Careers Fairs
- Mature Students – Building Forward Career Development Programme

## Undergraduate Career Development Programme

1<sup>st</sup> Years...

- **Develop** self-awareness on individual strengths & skills.
- **Learn** how to reflect on experience.
- **Understand** the role of voice & body language.
- **Highlight** areas to improve to become a better communicator.

YEAR **4**



CAREER  
PLANNING  
ADVANCED  
INTERVIEW SKILLS

YEAR **3**



NETWORKING  
PRE-PLACEMENT  
INTERVIEW SKILLS

YEAR **2**



PROFESSIONAL  
CV  
LINKEDIN  
PROFILE

YEAR **1**



COMMUNICATIONS  
SKILLS

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## Skills for future graduate success

### Employers require...

Candidates who can evolve with emerging needs and transfer skills across roles.

### National Skills Strategy 2025

“Our graduates must have a strong emphasis on **creativity** and **flexibility**,” **ideas** and **thinking outside the box**

# Skills for future graduate success

**LinkedIn 2020** – Millions of job postings analysed

- **Top skills required:** Communication, Problem Solving, Project Management, Marketing & Presentations, Customer Service, Leadership, IT Proficiency...
- <https://blog.linkedin.com/2020/may/june/2/linkedin-2020-grad-s-guide-to-getting-hired>

**Top 3 'human-centric' skills** for the post disruption workplace

- **Storytelling, EQ, 21<sup>st</sup> Century Leadership**
- <https://www.open.edu.au/advice/insights/3-soft-skills-youll-need-for-a-post-covid-workforce>

# Skills to shape the future

OECD Learning  
Framework 2030

## New skills needed:

- Discipline specific knowledge + ability to think across boundaries to 'connect the dots'
- Ready to be change agents
- Able to mobilize knowledge, skills, attitudes and values to meet complex demands.

## Future ready skills:

- Critical thinking
- Creative thinking
- Learning to learn
- Self-regulation
- Empathy
- Collaboration
- Practical skills with technology.



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**Security = a  
set of skills  
that are  
current,  
marketable  
& in-  
demand.**

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# Virtual Worker Model



## 2 Pillars – 9 Competencies

### Agile Mindset

Learnability

Agility

Curiosity

### Virtuability

Self-drive

Integrity

Accountability

Virtual Collaboration

Digital Communication

Mental Endurance



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# Thank You!

For more information, please email [careers@cit.ie](mailto:careers@cit.ie)

Treasa Morgan, Careers Officer

14 January 2021

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



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## Guidance Counsellors Information Day MTU (Cork)

*Dept. of Sport, Leisure & Childhood Studies*

Cian O' Neill, PhD

14 January 2021

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



# SLCS Programme Offerings

## Education Programmes

- *L7 BA in:*  
Early Childhood Education & Care
- *L8 BA (Hons) in*  
Early Childhood Education & Care
- *L8 BEd (Hons) in:*  
Montessori Education
- \* *L8 BA (Hons) in:*  
Montessori Education

## Sports Programmes

- *L8 BBus (Hons) in:*  
Sport & Exercise Management
- *L7 BBus in:*  
Recreation & Leisure Management
- \* *L8 BSc (Hons) in:*  
Coaching Science & Performance
- \*\* *L8 BSc (Hons) in:*  
Sports Science & Data Analytics

# BEd (Hons) in Montessori Education

- Commenced in September 2020
- Proposed Annual Intake of 20 students
- Rich Pedagogical Focus
- Strong Applied Suite of Modules
- Comprehensive Placement Programme
- Custom-designed Montessori Room



# What is the Difference between ECEC & Montessori Education?

*“While there are strong links between the ECEC & Montessori Education programmes, there are also significant differences ... as the latter embeds Montessori philosophy and pedagogy throughout all the practice modules”*

- While graduates will have a foundation in ECEC in general, they will have specialist knowledge and practices in relation to the Montessori Approach to Education and Care



# BBus (Hons) in Sport & Exercise Management

- Commenced in September 2020
- Proposed Annual Intake of 40 students
- Dual Focus: Sport & Business
- Customised Elective Suite of Modules
- Full Semester Internship Programme
- Led by an outstanding Team of 'PrAcademics'
- World Class Sports Facilities



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2020



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# Thank You!

For more information, please email [cian.oneill@cit.ie](mailto:cian.oneill@cit.ie)

Cian O' Neill, PhD

14 January 2021

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





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# Guidance Counsellors Information Day

## MTU Kerry Update

Dr. Brendan O'Donnell

14 January 2021

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

# Overview of MTU Kerry



## Three Schools of Study:

- School of Business, Computing and Humanities
- School of Health and Social Sciences
- School of Science, Technology, Engineering and Mathematics

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# Overview of MTU Kerry

## Nine Academic Departments:

- Department of Business
- Department of Computing
- Department of Hotel, Catering and Tourism
- Department of Creative Media and Information Technology
- Department of Nursing and Health Care Sciences
- Department of Social Sciences
- Department of Health and Leisure Studies
- Department of Technology, Engineering and Mathematics
- Department of Biological and Pharmaceutical Sciences





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## Course Developments School of Health and Social Sciences

# Course Developments School of Health and Social Sciences

## New to CAO for Entry 2021

- TL774 BSc in Inclusive Sport and Physical Activity
- TL874 BSc (Hons) in Inclusive Sport and Physical Activity

## Changed Content

- TL771 BSc in Health and Leisure
- TL871 BSc (Hons) in Health and Leisure  
(Revised degree award options):  
Health, Fitness and Leisure  
Physical Education  
Adapted Physical Activity

# TL774 BSc in Inclusive Sport & Physical Activity

## TL874 BSc (Hons) in Inclusive Sport & Physical Activity

### New to CAO for Entry 2021

- In recent years, government sport and health policy has focused on increasing choice and opportunities for adults and children with disabilities to lead an active and healthy lifestyle. This course aims to develop the professional skills to achieve this change.
- **Career Opportunities:** APA practitioners, aquatics and fitness instructors, personal trainers, development officers and policy-makers in the mainstream, inclusive and disability-specific contexts.



# Course Developments School of Business Computing and Humanities

# BA in Food Business Innovation (NFQ Level 7)

## Under Development for Direct Entry September 2021

- Admission to this course for entry September 2021 will be via direct application to the MTU Kerry Admissions Office.
- The BA in Food Business Innovation programme prepares students for a career in a variety of dynamic food businesses, to play a lead role in the analysis of key sectoral issues, and display management acumen within the food industry.
- **Career Opportunities:** Food business management, food product design and development, food retail organisations, market and consumer research, product sales and marketing, entrepreneurship, artisan food production and food logistics, as well as general food service businesses.



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## Course Developments School of STEM



# Course Developments School of STEM

## Title Change

- **TL747** Bachelor of Engineering in Mechanical and Automation Engineering

## New add-on degree:

- Bachelor of Science in Pharmacy Management
- Follow-on degree from TL652 Higher Certificate in Science - Pharmacy Technician

# Rethinking Engineering Education In Ireland (REEdI)



Successful HCI Pillar 3 funding application worth €8.95m.

- Rethinking Engineering Education in Ireland (REEdI) will transform the way we deliver undergraduate engineering education in Ireland.
- This project will place Munster Technological University (Kerry) at the forefront of international undergraduate engineering education provision, making it the go to university for human capital to fill our manufacturing organisations engineering talent pipeline on a national and international stage.

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# Science, Technology, Engineering and Science Building - Kerry Campus

Approved to go to  
tender August 2020

Planned occupancy of  
new building 2023







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# Thank You!

For more information, please email [hello@mtu.ie](mailto:hello@mtu.ie)

Dr. Brendan O'Donnell

14 January 2021

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