Ambasáid na hÉireann
Embassy of Ireland

Ireland-Africa Fellows Programme

Draft Directory of Postgraduate Courses eligible for Ireland-Africa Fellows Programme 2020/21*

*The final Directory of Courses eligible for the Ireland-Africa Fellows Programme 2020/21 will be made available at the beginning of Stage 2

Compiled by:

ICOS
Irish Council for International Students

Important Information for Applicants

COURSE LISTINGS

The courses included in this part of the directory are draft, although the courses listed below are unlikely to change substantially from the final list of eligible courses which will be made available at the beginning of August 2019. **It should be noted that some sections of the directory are not open to applicants from selected countries, reflecting the priorities of the Embassy of Ireland in those countries. These sections are clearly marked in the table of contents.**

ABBREVIATED WEB ADDRESSES

Throughout the listings, many long web addresses for course information have been shortened, for example: www.bit.ly/qEdRCn. This format allows for easier transcription, if required. Any capitalisation should be noted accurately as these shortened addresses are case-sensitive.

ENGLISH LANGUAGE PROFICIENCY

To fulfil the Ireland Fellows programme requirements, **all candidates for study in Ireland** will be required to hold an IELTS certificate - www.ielts.org - with a minimum overall score of 6.5. For candidates selected to go forward to Stage 2 who don't have the required current IELTS certification, the relevant Irish Embassy to which you are applying will arrange and cover the cost of an IELTS exam where relevant.

Please note that **some courses in Ireland may specify a higher IELTS requirement** than above for admission. Where possible, this is indicated in the listings. Courses marked with an asterisk (*) are courses which are known to have more stringent IELTS requirements than an overall score of 6.5. Some will have minimum score requirements for each individual band; some will require a minimum 7.0 overall score or higher. Applicants are asked to please check the course webpage for more information. IELTS requirements for other courses may also change after the publication of the directory, so applicants are also asked to check the course webpage or contact the college directly to confirm the IELTS requirements for any course(s) they are considering applying to. **It is the applicant's responsibility to research the required academic and IELTS qualification for their chosen course, to ensure that they have the necessary standard.**

KEY TO IRISH UNIVERSITIES, INSTITUTES OF TECHNOLOGY AND COLLEGES WITH LISTED COURSES

AIT	**Athlone Institute of Technology**	Athlone	www.ait.ie
CIT	**Cork Institute of Technology**	Cork	www.cit.ie
DBS	**Dublin Business School**	Dublin	www.dbs.ie
DCU	**Dublin City University**	Dublin	www.dcu.ie
DIT	**Dublin Institute of Technology**	Dublin	www.dit.ie
GCD	**Griffith College Dublin**	Dublin	www.gcd.ie
GCL	**Griffith College Limerick**	Limerick	
ITB	**Institute of Technology, Blanchardstown**	Dublin	www.itb.ie
ITC	**Institute of Technology, Carlow**	Carlow	www.itcarlow.ie
ITS	**Institute of Technology, Sligo**	Sligo	www.itsligo.ie
LIT	**Limerick Institute of Technology**	Limerick	www.lit.ie
MIC	**Mary Immaculate College**	Limerick	www.mic.ie
MU	**Maynooth University**	near Dublin	www.maynoothuniversity.ie
NCI	**National College of Ireland**	Dublin	www.ncirl.ie
NUIG	**National University of Ireland, Galway**	Galway	www.nuigalway.ie
TCD	**Trinity College Dublin**	Dublin	www.tcd.ie
UCC	**University College Cork**	Cork	www.ucc.ie
UCD	**University College Dublin**	Dublin	www.ucd.ie
UCDMS	**UCD Michael Smurfit Business School**	Dublin	www.smurfitschool.ie
UL	**University of Limerick**	Limerick	www.ul.ie
WIT	**Waterford Institute of Technology**	Waterford	www.wit.ie

(See overleaf for map)

Map of Ireland

The cities and towns with universities, Institutes of Technology and colleges that are included in this directory are **highlighted** below (for a listing of the institutions, please see p iii)

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Courses marked with an asterisk (*) are courses which are known to have more stringent IELTS requirements than an overall score of 6.5. Some will have minimum score requirements for each individual band; some will require a minimum 7.0 overall score or higher. Please check the course webpage for more information. IELTS requirements for other courses may also change after the publication of this directory, so please check the course webpage or contact the college directly to confirm the IELTS requirements for any course(s) you are considering.

Underlined courses are those which, from our knowledge, are highly competitive and/or only accept very high-achieving applicants. Applicants are advised to ensure that they meet all course entry requirements.

A Agriculture, Environmental Science, Conservation, Rural Development and related

A5	MSc in Climate Change	MU
A6	MSc in Climate Change, Agriculture and Food Security*	NUIG
A9	MSc in Applied Coastal and Marine Management*	UCC
A11	MSc in Co-operatives, Agri-Food and Sustainable Development*	UCC
A12	MSc (Agr) in Sustainable Agriculture and Rural Development*	UCD
A13	MSc (Agr) in Environmental Resource Management*	UCD
A16	MSc in Sustainable Energy and Green Technologies*	UCD

B Food Science, Food Engineering and related

B1	MSc in Food Science*	UCC
B2	MSc in Food Microbiology*	UCC

C Pharmacy and Biotechnology

C1	MSc in Biomedical Science*	NUIG
C2	MSc in Pharmaceutical Sciences	TCD

D Health, Medicine, Health Economics and related

D5	MSc in Health Economics*	NUIG
D8	MSc in Community Health	TCD
D9	Master of Public Health (MPH)*	UCC
D10	Master of Public Health (MPH)*	UCD
D12	MSc in Nursing Studies*	UL

E Development Studies, Peace Studies, Conflict Resolution, Humanitarian Action and related

E1	MSc in International Security and Conflict Studies*	DCU
E2	MSc in Sustainable Development	DIT
E3	MSc in Local Development and Innovation	DIT
E5	MA in International Peace Building, Security and Development Practice	MU
E7	MPhil in International Peace Studies	TCD
E10	MSc in Humanitarian Action*	UCD

G	**Social Policy, Social Research, Community Development, Sociology and related**	
G6	MSc in Disability Studies	TCD
H	**Women's Studies, Gender Studies, Equality Studies**	
H1	MA in Gender, Globalisation and Rights*	NUIG
H2	MA in Women's Studies*	UCC
H3	MA in Gender Studies*	UCD
I	**Law, Human Rights and related**	
I8	LLM in International and Comparative Law	TCD
K	**Engineering, Hydrology, Sustainable Technology**	
K9	MSc in Water Resources Engineering*	NUIG
K13	MSc in Sustainable Energy	TCD
K15	MEngSc in Sustainable Energy*	UCC
K19	MEngSc in Water Waste and Environmental Engineering*	UCD
K20	MSc in Sustainable Resource Management: Policy and Practice*	UL
L	**Economics, Finance and Accounting**	
L6	MSc in Economics and Financial Risk Analysis*	MU
L10	MSc in Financial Risk Management*	TCD
L11	MSc in Financial (Banking and Risk Management)*	UCC
L14	MSc in Aviation Finance*	UCDMS
L15	MSc in Renewable Energy & Environmental Finance*	UCDMS
L18	Masters in Business Studies (MBS) – Economics and Finance*	WIT
M	**Management and Business**	
M1	Master of Business	AIT
M4	MSc in Management Practice	DBS
M6	MSc in Management (Business)*	DCU
M7	MSc in Strategic Management	DIT
M8	MSc in Supply Chain Management	DIT
M9	MSc in Supply Chain Management	ITC
M10	MSc in Information Technology Management	ITC
M12	MSc in Strategy and Innovation*	MU
M16	MSc in Management*	TCD
M19	MSc in Food Business Strategy*	UCDMS
M22	MSc in Strategic Management & Planning*	UCDMS
M23	MSc in Project Management*	UL
M24	MA in Business Management*	UL

N Information Systems and Communications Technology

N1	MSc in Data Analytics	AIT
N2	MSc in Software Engineering*	AIT
N3	MSc in Information Security	CIT
N4	MSc in Artificial Intelligence	CIT
N5	MSc in Information Systems with Computing	DBS
N6	MSc in Computing (Data Analytics)	DCU
N7	MSc in Computing (Cloud Computing)	DCU
N8	MSc in Computing (Software Engineering)	DCU
N9	MSc in Computing (Security and Forensic Computing)	DCU
N10	MSc in Computing (Advanced Software Development)*	DIT
N11	MSc in Electronic and Communications Engineering	DIT
N12	MSc in Computing	GCD
N13	MSc in Network and Information Security	GCL
N14	MSc in Computing (Applied Cyber Security) – Pathway 1 only	ITB
N15	MEng in Internet of Things Technologies – Pathway 1 only	ITB
N16	MSc in Data Science	ITC
N17	MEng in Digital Health and Medical Technologies	MU/DCU
N18	MSc in Cyber Security	NCI
N19	MSc in Cloud Computing	NCI
N20	MSc in Information Systems Management*	NUIG
N21	MSc in Computer Science (Future Networked Systems)	TCD
N22	MSc in Computer Science (Intelligent Systems)	TCD
N23	MSc in Information Systems for Business Performance*	UCC
N24	MSc in Computer Science (Interactive Media)*	UCC
N25	MSc in Computing Science*	UCC
N26	MSc in Health Informatics*	UL

O Tourism

O1	MSc in Tourism Management	DIT
O2	MSc in Hospitality Management	DIT
O3	MA in International Tourism*	UL

A

Agriculture, Environmental Science, Conservation, Rural Development and related studies

A5 MSc in Climate Change MU

Study Location: Maynooth University

Course Duration: 1 year

Course Outline: This programme aims to provide Graduates with the knowledge, skills and experience necessary to enable them to undertake analysis of both global and Irish related climate change science, impacts and policies. The programme explores ways of meeting the challenges posed by climate change, particularly in the areas of simulating future climates, impacts modelling, developing mitigation and adaptation strategies and decision making under uncertainty.

Indicative Content: Applied Climate Sciences; Impacts, Adaptation and Mitigation; Analysing Spatial and Temporal Data Using *R*; Detection, Attribution and Decision Making; The Ocean and Climate Change; Field Course; Thesis.

Admission Requirements: A minimum of Second Class Honours, Grade One (2.1) in any of the following subjects or cognate disciplines: Geography, Physics, Computer Science, Environmental Science, Engineering, Mathematics.

Course Webpage: [shortened as] https://bit.ly/2IjULdE

Application: **PAC Code: MHN56**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

A6 MSc in Climate Change, Agriculture and Food Security* NUIG

Study Location: NUI Galway

Course Duration: 1 year

Course Outline: This programme is aimed at students who want to combine scientific, engineering, technical, social or policy skills so that they are better equipped to understand and make significant contributions regarding the adaptation and mitigation of climate change impacts on global agriculture and food security. Students are provided with the skills and tools for developing agricultural practices, policies and measures to address the challenge that global warming poses for agriculture and food security worldwide.

Indicative Content: Climate Change, Agriculture & Global Food Security; Climate Change, Agriculture, Nutrition & Global Health; Policy & Scenarios for Climate Change Adaptation & Mitigation; Gender, Agriculture & Climate Change; Low-Emissions Climate-Smart Agriculture & AgriFood Systems; Climate Change Adaptation, Mitigation & Risk Management; Monitoring Climate Change: Past, Present, Future; Climate Change, Natural Resources & Livelihoods; AgriBiological Responses to Climate Change; CCAFS Science Communication: Techniques & Models; CCAFS Case Studies, Journal Club & Datasets; CCAFS Research Skills/Techniques; CCAFS Research Project.

Admissions Requirements: Minimum 2:1 honours degree or equivalent in an appropriate discipline.

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: www.nuigalway.ie/ccafs

Application: **PAC Code: GYS00**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

A9 MSc in Applied Coastal and Marine Management* UCC

Study Location: University College Cork

Course Duration: 1 year

Course Outline: The programme focuses on the science (including the social sciences) of Coastal and Marine management and policy-making today. It is designed to give students professional competency to make sound, scientifically-informed, strategic and operational decisions regarding the sustainable governance, use and protection of coastal and marine environments. It also provides training in applied practical skills, with an emphasis on geospatial techniques relevant to coastal and marine data capture, analysis, integration and visualisation. Students will also receive training in important transferrable skills including principles and practice of scientific research, effective communication and presentation techniques, and sound project management

Indicative Content: Marine Ecology and Conservation; Introduction to Geographical Information Systems; Introduction to Remote Sensing; Coastal and Marine Resource Use Practices; Coastal and Marine Governance; Coastal and Marine Processes; Practical Offshore Geological Exploration; Research Dissertation.

Admission Requirements: A primary degree to upper second class honours level (2:1 grade) or higher from a recognised third-level institution in Geography, Geology, Environmental Sciences, Biology, Oceanography, Physics, Mathematics, Engineering or a related discipline. Applications will also be considered from graduates in other disciplines, including those in the Arts and Social Sciences, who have a demonstrable interest and/or experience in coastal and marine management, and who can offer sufficient numerical abilities. Applicants with a degree of at least lower second class honours (2:2 grade), or its equivalent, in one of the areas mentioned above, plus at least five years of work experience relevant to the field of applied coastal and marine management will also be considered.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: https://www.ucc.ie/en/cke39/

Application: **PAC Code: CKE39**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

A11 Co-operatives, Agri-Food and Sustainable Development* UCC

Study Location: University College Cork

Course Duration: 1 year

Course Outline: This is a unique course, with a very strong practical emphasis and will equip participants with the organisational and management skills needed to make innovative contributions to the development of local economies, with particular emphasis on co-operatives, social enterprises and food businesses in Ireland and overseas. It is aimed at graduates from a wide range of disciplines who wish to pursue careers in sustainable development and innovative practice leading to positions in the food sector (ranging from local food enterprises to large multi-nationals), local and international rural development, shared and collaborative economy, NGOs, innovative community businesses including co-operatives and social enterprises, local and regional enterprise development, corporate social responsibility, policy formulation and analysis.

Indicative Content: Contemporary Socio-Economic and Environmental Issues; Co-operative and Collaborative Responses; Sustainable Rural Development; Economics of Agri-Food Markets; Global Food Policy Issues; Marketing for Sustainable Food Production and Consumption; Food Branding and Digital Media; Project Management; Sustainable Food Systems; Food Supply Chain and Value Analysis; Research Methods; Professional Development; Practice-Based Research Project.

Admission Requirements: A minimum 2:2 degree or equivalent, in a wide range of disciplines.

IELTS: Minimum 6.5 overall score required with no individual section lower than 5.5.

Course Webpage: https://www.ucc.ie/en/ckl03/

Application: **PAC Code: CKL03**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above. *Additional application information is posted on the course webpage.*

A12 MSc (Agr) in Sustainable Agriculture and Rural Development* UCD

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: This course represents a return to core values in the development of rural areas which are rooted in agricultural change as well as responding to new societal demands such as safe and ethically produced food, a healthier environment and sustainable and affordable energy. The programme will equip graduates with capabilities in core analytical, conceptual, communications and research skills as well as providing the knowledge base required to develop careers in the broad arena of sustainable agriculture and rural development.

Indicative Content: Core - Sustainable Agriculture; Strategic Communications; Policies and Strategies for Sustainable Agriculture and Rural Development; Research Methods; Theory & Practice of Rural Enterprises; Minor Thesis. Options - World Heritage and Sustainable Development; Global Biodiversity and Heritage; Economics and Sociology in Rural Development; Planning for Development; Agricultural Extension and Innovation.

Admission Requirements: A minimum 2:2 Honours university degree.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpages: [shortened as] http://bit.ly/2thpPm8

Application: Apply online from course webpage.

A13 MSc (Agr) in Environmental Resource Management* UCD

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: The MSc in Environmental Resource Management is an established programme that develops graduates with the flexible combination of environmental science, policy and management expertise necessary

to address these needs. The programme is accessible to candidates from a very broad range of primary degree backgrounds. Graduates from this programme respond to many of the major global sustainability challenges.

Indicative Content: Core – Data Analysis for Biologists; Research Project (AESC); Human Impact on the Environment; Seminar Presentation; Soil, Plant & Water Resources; Geographic Information Systems; Biodiversity and Ecosystem Services; Literature Review (AESC); Practice Research Skills; Ecological Modelling. Options – Wildlife Conservation; One Health; Rural Planning & Environmental Law.

Admission Requirements: Applicants must hold minimum Lower Second Class Honours Degree in Biological Science, Environmental Science, Agricultural Science, Geography, Earth Sciences, Natural Sciences or cognate degree programme from a recognised higher education institution. Cognate degree programmes would include humanities, arts, business, law and engineering.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: [shortened as] www.bit.ly/2c3C2mu

Application: Apply online from course webpage.

A16 MSc in Sustainable Energy and Green Technologies* UCD

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: This course focuses on development and optimisation of renewable energy resource exploitation; efficiency in energy generation and utilisation pathway; mitigation of environmental impacts, and; preparation for business innovation and job creations opportunities in renewable energy systems technologies development, plant biotechnology and entrepreneurship.

Indicative Content: Entrepreneurship & Plant Biotechnology; The Bioeconomy; Life Cycle Assessment; Thesis; Advanced Air Pollution; Waste to Energy Processes & Technologies; Energy Systems Integration; LCA Applications; Research and Teaching Methods; Energy Systems & Sustainable Environments.

Admission Requirements: A good honours degree (2.2 or higher) in engineering, physical science or environmental related degree. Other disciplines may be considered if they include strong mathematical, technological, and analytical skills.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: [shortened as] https://bit.ly/2ffOs7n

Application: Apply online from course webpage.

B

Food Science, Food Engineering, Bioresource Technology, and related studies

B1 MSc in Food Science* UCC

Study Location: University College Cork

Course Duration: 1 year

Course Outline: This course offers advanced modules in established and emerging areas of Food Science plus modules in research methods. Novel methods of teaching with emphases on project work and innovative forms of learning are used.

Indicative Content: Core - Scientific Training for Enhanced Postgraduate Studies; Library Project in Food Science; Dissertation in Food Science. Options – Food Business: Markets and Policy; Material Science for Food Systems; Advanced Topics in Dairy Biochemistry; Advances in the Science of Muscle Foods; Advances in Food Formulation: Science and Technology; Novel Processing Technologies and Ingredients; Cheese and Fermented Dairy Products; Meat Science and Technology; Hygienic Production of Food; Human Nutrition and Health; Sensory Analysis in Nutrition Research; Chemistry of Food Proteins; Macromolecules and Rheology; Advanced Analytical Methods; Cereals and Related Beverages; Food Product Development and Innovation; Microbial Food Safety.

Admission Requirements: Candidates must be holders of an honours BSc degree, or equivalent qualification, in a discipline with a significant element of laboratory science, with a minimum of Second Class Honours Grade 1 or equivalent.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: https://www.ucc.ie/en/ckr22/

Application: **PAC Code: CKR22**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above. *Additional application information is posted on the course webpage.*

B2 MSc in Food Microbiology* UCC

Study Location: University College Cork

Course Duration: 1 year

Course Outline: This course covers the breadth of classical and modern food microbiology, including food safety and spoilage; food fermentation; food biotechnology; hygienic production of food; the impact of diet on health; the molecular mechanisms of infectious microbes and the role of the gut microbiota in human health. The aim of this course is to educate you to an MSc level in food microbiology, emphasising areas in which UCC engages actively in research, e.g. food biotechnology, food fermentations, food safety, food for health.

Indicative Content: Core: Scientific Training for Enhanced Postgraduate Studies; Biotechniques; Library Project in Food Microbiology; Research Dissertation. Options: Food Fermentation and Mycology; Microbial Food Safety; Food Biotechnology; Hygienic production of Food; Functional Foods for Health; Food Markets and Policy

Admission Requirements: Candidates must be holders of an honours BSc degree, or equivalent qualification, in a discipline with a significant element of laboratory science, with a minimum of second class honours Grade 2 or equivalent.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: https://www.ucc.ie/en/ckr19/

Application: **PAC Code: CKR19**

Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above. *Additional application information is posted on the course webpage.*

C

Pharmacy and Biotechnology

C1 MSc in Biomedical Science* NUIG

Study Location: NUI Galway

Course Duration: 1 year

Course Outline: This MSc programme aims to provide students with the underpinning knowledge and practical skills to pursue a successful career in biomedical science. The course is designed for those who wish to follow careers as Biomedical Scientists in research, the Health Service or in the wider context of biomedical science (including Medical Technologies, Bio-pharmaceutical and other Healthcare industries). A major objective of the course is to introduce students to an interdisciplinary approach to Biomedical Science, which utilises technologies and skills from a wide spectrum of scientific, engineering and clinical disciplines.

Indicative Content: Core – Research & Minor Thesis; Tissue Engineering; Materials, Science & Biomaterials; Applied Biomedical Sciences; Introduction to Business; Literature Analysis and Presentation Skills in Biomedical Research; Regulatory Compliance in Healthcare Manufacturing; Molecular Medicine. Options – Scientific Writing; Human Body Structure; Protein Technology; Human Body Function; Fundamental Concepts in Pharmacology; Cell & Molecular Biology: Advanced Technologies; Radiation and Medical Physics; Advanced Tissue Engineering; Introduction to Bioinformatics; Advanced Industrial Processes.

Admission Requirements: Graduates who have a first class or second class honours BSc degree in a relevant biological or biomedical sciences, physical sciences or engineering field.

IELTS: Minimum 6.5 overall score required with no band below 6.0.

Course Webpages: [shortened as] www.bit.ly/chj2Yk

Application: **PAC Code: GYS03**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

C2 MSc in Pharmaceutical Sciences TCD

Study Location: Trinity College Dublin

Course Duration: 1 year

Course Outline: The M.Sc. in Pharmaceutical Sciences is an integrated multidisciplinary course addressing fundamental and applied aspects of drug and drug product discovery, development, production and analysis. The programme will prepare candidates for research careers in academia and industry in pharmaceutical R&D.

Indicative Content: Regulatory aspects and industrial pharmacy; Chromatographic and other separative methods of analysis; Spectroscopic methods for drug analysis; Molecular pharmaceutics and advanced drug delivery; Analysis of low level drug analytes; Pharmaceutical and medical nanotechnology; Pharmacological and related methods; Analysis of biotech products; Formulation development and evaluation; Research methods in pharmaceutical analysis, analytical method, validation and statistics.

Admission Requirements: Applicants are accepted, subject to the availability of places, from holders of honours degrees in a relevant Science discipline (e.g. Pharmacy, Chemistry, Analytical Chemistry, Microbiology, Biochemistry, Pharmacology and other appropriate primary honours degrees e.g. I.T., Medicine or Veterinary). Equivalent primary and/or postgraduate qualifications are considered, particularly with relevant professional experience.

Course Webpage: https://pharmacy.tcd.ie/postgraduate/msc_analysis.php

Application: Apply online via course webpage.

D

Health, Medicine, Health Economics and related

D5 MSc in Health Economics* NUIG

Study Location: NUI Galway

Course Duration: 1 year

Course Outline: The MSc (Health Economics) introduces the student to the principles underlying the economic analysis of health care decision-making within an evolving context of technological development, population ageing and changing patient expectations. The programme is designed for people interested in pursuing a career in the government, the health service, the pharmaceutical and medical device industries, or in research and consultancy agencies. The programme examines the challenges of scarcity for health care provision, analyses alternative systems of finance and delivery and provides an introduction to the techniques of evaluation used in health care.

Indicative Content: Economics of Health and Social Care; Economic Evaluation in Healthcare; Health Systems and Policy Analysis; Econometrics; Applied Health Technology Assessment; Market Access; Systematic Reviews; Econometrics; Statistics; Internship.

Admission Requirements: A primary degree at minimum 2:1 which included the study of economics to intermediate level or a higher diploma in economics with 2:1 or equivalent.

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: [shortened as] www.bit.ly/1KlPlrt

Application: **PAC Code: GYC26**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

D8 MSc in Community Health TCD

Study Location: Trinity College Dublin

Course Duration: 1 year

Course Outline: This course will prepare health and social care professionals in the delivery of universal primary care and is suitable for people who are currently either working in, or intend to work in community health and who are seeking an enhanced qualification for their career advancement. The purpose of the course is to enable students from across a broad spectrum of professional backgrounds to gain a grounded understanding of the core principles of public health and their application to the practice of community healthcare, and to increase graduates' employability in community health practice.

Indicative Content: Core – Determinants of Health; Principles and Practice of Community Health; Epidemiology and Healthcare Statistics; Theory and Practice of Enquiry Methods in Health Care; Health Promotion and Management of Chronic Disease. Options – Deconstructing Mental Health and Distress; Child Health Provision in the Community.

Admission Requirements: Minimum 2:1 grade (second class honours) in a relevant primary degree in the applicant's field of practice. Where applicable, applicants must hold current registration with the relevant professions' regulatory body.

Course Webpage: [shortened as] https://bit.ly/2s3I1OH

Application: Apply online via the course webpage.

D9 Master of Public Health (MPH)* UCC

Study Location: University College Cork

Course Duration: 1 year

Course Outline: The aim of this programme is to provide students, from a range of different professional backgrounds, academic and experiential development in the theory and practice of Public Health. The MPH is a multi-disciplinary course where you can specialise in health promotion, health protection or advanced epidemiology.

Indicative Content: Core - Principles and Practice of Public Health; Applied Research for Public Health; Public Health Informatics; Leadership in Public Health; Dissertation. Options – Health Promotion: Concepts, Principles and Practice; Practice Portfolio–Health Promotion; Public Health and Behavioural Change; Graduate Information Literacy Skills; Global and Environmental Health; Critical Social Science Perspectives on Public Health; The Principles and Practices of Multi-Disciplinary Health Protection; Microbiology for Health and Protection; Global Environmental Health; Advanced Epidemiology; Advanced Biostatistics; Survival Analysis; Systematic Review and Meta-Analysis; Minor Dissertation in Public Health and Epidemiology; Minor Dissertation in Epidemiology.

Admission Requirements: Normally at least a 2:2 Honours degree in a relevant subject or at least a 2:2 Honours degree in any discipline with a postgraduate qualification in a relevant field or evidence of at least two years' relevant work experience.

IELTS: Minimum 7.0 overall score required with no section less than 6.5.

Course Webpage: www.ucc.ie/en/ckx11

Application: **PAC Code: CKX11**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above. *Additional application information is posted on the course webpage.*

D10 Master of Public Health (MPH)* UCD

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: The Master of Public Health provides broad-based education and training in the basic disciplines which underlie the practice of Public Health including disease epidemiology, research methods and statistics, health promotion, environmental health, health economics, international health, sociology and health policy. Students will acquire (i) knowledge of the factors influencing health status; (ii) an understanding of the organisation and financing of Health Services and their impact on population health; (iii) the epidemiological skills of study design and analysis; and (iv) the ability to work as an active team member in planning, implementing, monitoring and evaluating health policy.

Indicative Content: Core – Introduction to Environmental Science and Health; Fundamentals of Epidemiology; Public Health Practice; Biostatistics I; Infectious Disease Epidemiology; Health Promotion; Chronic Disease Epidemiology; Applied Research Methods & Data Management; MPH Dissertation; Sociology & Social Epidemiology; Principles of Management, Health Economics & Health Policy. Options – Food Diet and Health;

Nutritional Epidemiology; One Health; International Health I; Risk Perception, Communication and Behaviour Changes; Biostatistics II; Research Methods in Genetic Epidemiology; International Health II; Graduate Teaching Assistant.

Admission Requirements: This programme is intended for Graduates of Health Science degree programmes (Medicine, Dentistry, Public Health, Pharmacy, Physiotherapy, Occupational Therapy, Nutrition, Nursing, or other), Science degree programmes (Biology, Biochemistry, Food Science, Physiology, Pharmacology, or other) or Social Science degree programmes (Psychology, Sociology, Economics, or other) preferably with a 2.1 Award or higher. Awards of 2:2 or less may be considered with additional suitability credentials. Applicants will be required to provide evidence of the highest level of mathematics achieved in prior education.

IELTS: Minimum 7.0 overall score required with no section less than 6.5.

Course Webpage: [shortened as] www.bit.ly/2czIOMx

Application: Apply online from course webpage.

D12 MSc in Nursing Studies* UL

Study Location: University of Limerick

Course Duration: 1 year

Course Outline: The MSc Nursing Studies programme prepares and advances students with the knowledge, skills and attitudes required to become confident, critical, analytical and research aware graduates. The programme provides opportunities to explore research as evidence for enhancing and changing practice and aims to advance the student's aptitudes in becoming confident, analytical and research aware.

Indicative Content: Core – Health Research - Methods & Methodology; Principles of Primary & Community Care; Leading & Managing Practice; Project Development & Study Skills; Promoting Quality & Safety in Healthcare; Dissertation Project 1; Dissertation Project 2. Options – Health Promotion in Nursing/Midwifery Practice; Intercultural Care; Therapeutic Engagement.

Admission Requirements: Candidates must have a first or second class honours degree in a relevant or appropriate subject and must be a registered nurse and provide evidence of a current registration with an appropriate Nursing/Midwifery Registration Board.

IELTS: Minimum 6.5 overall score required with no section less than 6.0.

Course Webpage: [shortened as] http://bit.ly/2w4o4tD

Application: Apply online via the course webpage.

E

Development Studies, Peace Studies, Conflict Resolution, Humanitarian Action and related

E1 MSc in International Security and Conflict Studies* DCU

Study Location: Dublin City University

Course Duration: 1 year

Course Outline: The MA in International Security and Conflict Studies explores the causes of conflict, the roles played by powerful states and the broader international community in conflict and security, the changing role of peacekeeping, terrorism and radicalisation, and conflict resolution processes.

Indicative Content: Core – International Law and Conflict; Resolving and Managing Conflict; International Security; Research Methodology; Dissertation. Options – Environmental Change and World Politics; Criminology; Professional Development; European and International Human Rights Law; Russia & The Former Soviet Space; Irish Foreign Policy; Conflict, Security & Peacebuilding; Political Terrorism; Politics & Development in Africa; Politics of the UN; Politics of the Middle East and North Africa; India: The Politics of an Emerging Power.

Admission Requirements: An undergraduate degree in any discipline with a minimum 2:2 or equivalent.

IELTS: Minimum 6.5 overall score required with no section less than 6.0.

Course Webpage: [shortened as] https://bit.ly/2BdP3qv

Application: **PAC Code: DC629**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

E2 MSc in Sustainable Development DIT

Study Location: Dublin Institute of Technology

Course Duration: 1 Year

Course Outline: The programme aims to provide graduates with the skills and ability to interpret principles of sustainable development and translate these into policy responses. The MSc Sustainable Development is structured to build on and deepen your knowledge and allow you apply the principles and practices of sustainable development in your own field of expertise or employment. The course also offers you the chance to deepen your knowledge in chosen areas of energy, environment, community development or planning.

Indicative Content: Core – Climate Change and Policy Analysis; Society and Sustainable Development; Economy and Sustainable Development; Spatial Planning and Sustainable Communities; Environmental Law and Institutions; Sustainable Development & Public Policy in a European Context; Research Techniques; Dissertation; Progress and Placement. Options – Environmental Management Plans; Environmental Design & Management; EU Policy; Law and Local Development; Local Governance, Development & Innovation; Management Studies; Place-Making; Renewable Energy Technologies; Spatial Data Assessment/GIS; Sustainable Construction; Sustainable Tour-Policy & Practice; Urban Regeneration & Public Policy.

Admission Requirements: Honours Bachelor Degree in any relevant discipline at 2.2 grade or higher, or equivalent. Eligible candidates may be interviewed where work/career experience is being considered in lieu of academic qualifications.

Course Webpage: [shortened as] https://bit.ly/2dK9e4a

Application: Apply via the 'Non-EU Sept Intake' button on the course webpage.

E3 MSc in Local Development and Innovation DIT

Study Location: Dublin Institute of Technology

Course Duration: 1 year

Course Outline: The programme is designed to balance theory and practice and provide students with an understanding of how local communities operate and the skills to play a critical role in developing innovative programmes to facilitate social and economic development at a local level. It aims to give students a multi-disciplinary research-based knowledge of key processes and issues at local and regional level arising from social, economic and political change in the global economy and to understand institutional and policy responses to such change.

Indicative Content: Core – Communities, Development and Change; Cities, Regions and Development; Economics of Public Policy; Place-making and Community Planning; Society and Sustainable Development; Local Governance, Development and Innovation; Spatial Planning and Sustainable Communities; Research Techniques; Sustainability and Public Policy in a European Context; Dissertation; Work Placement. Options – Project Appraisal and Management; EU Policy; Law and Local Development; Entrepreneurship and Enterprise Development; Management Studies; Urban Regeneration and Public Policy; Housing; Transport, Mobility and Healthy Neighbourhoods.

Admission Requirements: Honours bachelor degree in any relevant discipline at 2.2 grade or higher, or equivalent. Eligible candidates may be interviewed where work/career experience is being considered in lieu of academic qualifications.

Course Webpage: [shortened as] http://bit.ly/2ullI4e

Application: Apply via the 'Non-EU Sept Intake' button on the course webpage.

E5 MA in International Peace Building, Security and Development Practice MU

Study Location: Maynooth University

Course Duration: 1 year

Course Outline: This programme empowers actors and practitioners from development, security and other peace and security related institutional backgrounds involved in international peace-building with the knowledge, skills and competencies that will enable them to provide leadership to reduce and ultimately eliminate violent conflict.

Indicative Content: Core – Mediation Knowledge and Practice; Resolving Protracted Conflict: Applied Concepts & Peace Process Theories; Globalisation and Movements for Change; Conflict, Development and Security. Options – Impacts, Adaptation and Mitigation; Mediation Theory & Conflict Analysis; Post Conflict Studies: Challenges of Implementing Peace Agreements; Negotiation Theory and Skills; Conflict Intervention, Stabilisation and the Comprehensive Approach; Peace, Religion and Diplomacy; Political Economy of Development; Gender and Development; Managing Development Organisations; Adult Learning for Development; Sustainable Livelihoods and Climate Change Adaptation.

Admission Requirements: Honours Degree (minimum 2nd class honour) in a cognate discipline, such as international relations, development studies, sociology, politics, etc.

Course Webpage: [shortened as] https://bit.ly/2BJuN0m

Application: **PAC Code: MH54M**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

E7 MPhil in International Peace Studies TCD

Study Location: Trinity College Dublin

Course Duration: 1 year

Course Overview: International Peace Studies examines the sources of war and armed conflict and suggests methods of preventing and resolving them through processes of peacemaking and peacebuilding. The course combines perspectives from international relations, ethics and conflict resolution to reflect critically upon the wide range of social, political and economic issues associated with peace and political violence. A week-long Mediation Summer School provides an opportunity to develop practical skills in the area of conflict resolution and mediation. There is also the option to participate in various field trips in Ireland and abroad.

Indicative Content: Core - The Politics of Peace and Conflict, Research Methods. Options – International Politics; Ethics in International Affairs; Conflict Resolution and Nonviolence; Armed Conflict, Peacebuilding and Development; The United Nations and Conflict Resolution; Human Rights in Theory and Practice; Gender, War and Peace; Gender and Globalisation; Reconciliation in Northern Ireland; The Politics and Idea of Europe; Theories of Race and Ethnicity; Colonialism and Liberal Intervention; Religion, Conflict and Peace in International Relations; NGOs in Theory and Practice: Internship Module; Sharing Perspectives (online module).

Admission Requirements: Normally a Second Class Honours degree (or equivalent) or above. Students not meeting these criteria may be considered at the discretion of the Dean of Graduate Studies.

Course Webpage: www.tcd.ie/ise/postgraduate/peace-studies.php

Application: Apply online via course webpage.

E10 MSc in Humanitarian Action* UCD

Study Location: University College Dublin

Course Duration: 15 months

Course Outline: The programme aims to provide students with a broad foundation in the area of international humanitarian action, in which both critical thinking and research skills are emphasized. The programme is suitable for both recent graduates and experience practitioners working or intending to work in the field of humanitarian relief and international co-operation.

Indicative Content: Core – Geopolitics; Anthropology; International Law; Publish Health; Management in Humanitarian Action; Dissertation. Options – International Politics; Ethics in International Affairs; Conflict Resolution and Nonviolence; Armed Conflict, Peace-building and Development; The United Nations and Conflict Resolution; Human Rights in Theory and Practice; Gender, War and Peace; Gender and Globalisation;

Reconciliation in Northern Ireland; The Politics of the Idea of Ethnicity; Theories of Race and Ethnicity; Religion, Conflict and Peace in International Relations; NGOs in Theory and Practice (Internship Module).

Admission Requirements: A minimum 2:2 Honours degree in a cognate subject.

IELTS: Minimum 6.5 overall score required with no section less than 6.0.

Course Webpage: [shortened as] https://bit.ly/2LtvD0N

Application: Apply online from course webpage.

G

Social Policy, Social Research, Community Development, Sociology and related

G6 MSc in Disability Studies TCD

Study Location: Trinity College Dublin

Course Duration: 1 year

Note: This course did not operate in 2017 and 2018 because of a lack of applications for the programme, and may not run in 2019 for the same reasons.

Course Outline: The M.Sc. in Disability Studies provides students with a deep understanding of disability from social, historical, cultural, economic and policy perspectives. Graduates of the M.Sc. are equipped with the knowledge, analytical skills and perspectives to help translate rights into reality in the field of disability. The programme aims to prepare graduates for employment and career development in areas such as disability advocacy, quality assurance in disability services, programme planning and evaluation in the field of disability, disability research, and disability policy analysis.

Indicative Content: Core – Introduction to Disability Studies; Disability, Policy, Law and Ethics; Research Methods; Disability Placements/Disability Applied Projects. Options – Contemporary Issues; Disability and Development; The Politics of De-Institutionalism; Perspectives on Deafness.

Admission Requirements: Normally a 2:1 Honours degree in humanities, social sciences, sciences, rehabilitation, education, policy. Applicants with qualifications below this level or those holding professional qualifications will be required to submit a portfolio detailing their prior learning both in formal and experiential settings. This portfolio should be submitted as part of the online application process.

Course Webpage: https://www.tcd.ie/swsp/postgraduate/disability/

Application: Apply online via course webpage.

H

Women's Studies, Gender Studies and Equality Studies

H1 MA in Gender, Globalisation and Rights* NUIG

Study Location: NUI Galway

Course Duration: 1 year

Course Outline: Students acquire the theoretical, conceptual and practical tools needed to apply a gender perspective and undertake gender analyses in relevant domains of practice and employment at local, national and international levels, as well as for advanced research at doctoral level and beyond. Students also have the opportunity to undertake an accredited, two-month professional placement with a relevant organisation working on issues related to programme themes.

Indicative Content: Core – Human Rights, Women and Gender; Feminist and Gender Theorising; Gender Perspectives on Globalisation; Research Methods; Dissertation. Options – Gender and Conflict; Development and Human Rights; Women's Agency and Power; *Clár* Collaboration; *Clár* Leadership Project; History and Narrative in Gender Research; Engaged Research Practice: Women in Agriculture; Women, Conflict and Human Security; Applied Gender Analyses; Gender, Sexuality and Global Health; Applied Gender Analysis: Policy and Practice.

Admission Requirements: Applicants must have attained second-class honours or better in a primary degree in a relevant discipline or equivalent international qualification (minimum GPA 3.00 out of 4.00). Publication/professional experience as deemed suitable by the College of Arts may be considered where the formal requirements are not completely satisfied.

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: [shortened as] www.bit.ly/c9SC9i

Application: **PAC Code: GYA44**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

H2 MA in Women's Studies* UCC

Study Location: University College Cork

Course Duration: 1 year

Course Outline: The course covers a range of themes including representations of women in history, literature and popular culture (music and film); gender and sexuality; women and politics; women, work and family, and gender violence. You will be provided with training in research skills and introduced to theoretical material that will enhance your personal research. During the taught months of the course, from late September to May, themes like those above are explored in lectures, seminars and on fieldtrips, and are addressed by guest speakers.

Indicative Content: Feminist Theory; Women in Society I (Contextualising Women in Society); Women in Society II (Interdisciplinary Perspectives); Research Skills in Women's Studies (Part 1: Feminist Methodologies); Research Skills in Women's Studies (Part 2); Dissertation.

Admission Requirements: Normally a minimum 2:2 Honours degree or equivalent. Relevant experience in community work, industry, or the professions may also be considered. All applicants are required to submit an

essay of at least 1,000 words on a book, experience, or personal contact which stimulated their interest in women's studies.

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: https://www.ucc.ie/en/cke03/

Application: **PAC Code: CKE03**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above. *Additional application information is posted on the course webpage.*

H3 MA in Gender Studies* UCD

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: The MA in Gender Studies continues to deliver rigorous, critical, dynamic learning in feminisms, sexualities, masculinities, gender debates, politics and activisms. Our global and intersectional feminist perspectives offer a complex understanding of how oppression and discrimination operate across society, politics and the economy.

Indicative Content: Core – Feminist & Egalitarian Research; Gender Theory: Critical Themes; Gender and Globalisation; Women's Studies Minor Thesis; Gender, Inequality and Public Policy. Options – Human Rights Law and Equality; Masculinities, Gender and Equality; Feminist and Gender Theory; Ethnicity and Nationalism; Travellers, Rights and Nomadism; Space, Place and Gender; Gender War and Violence; Reproductive Justice and Sexuality.

Admission Requirements: Minimum 2:2 Honours (or equivalent) in an honours level Bachelor's degree.

IELTS: Minimum 6.5 overall score required with no section less 6.0.

Course Webpages: [shortened as] http://bit.ly/2tlYixn

Application: Apply online via course webpage

I

Law, Human Rights and related

I8 LLM in International and Comparative Law TCD

Study Location: Trinity College Dublin

Course Duration: 1 year

Course Outline: This programme will allow students to engage meaningfully in comparative legal research using mature comparative law methodology and develop flexibility, adaptability and independence in order to engage productively with a changing, social, cultural and international environment. The programme is very flexible and offers a broad range of modules for students to choose from.

Sample Modules: African Human Rights Law; The Chinese Legal System in Comparative Perspective; Comparative Constitutional Law and Theory; International Criminal Law; International Economic Law; International Humanitarian Law; Islamic Law; Judicial Review and Human Rights: Theory and Practice; Law and Bioethics; Patent Law in the Globalised World; Transitional Justice.

Admission Requirements: A good honours law or law-based interdisciplinary Bachelor degree. Applications will also be considered from exceptional graduates in related disciplines in the Arts, Humanities, and Social Sciences who can convincingly demonstrate that their studies have fully prepared them for the LLM.

Course Webpage: [shortened as] https://bit.ly/2LPVGEb

Application: Apply online via course webpage.

K

Engineering, Hydrology, Sustainable Technology

K9 MSc in Water Resources Engineering* NUIG

Study Location: NUI Galway

Course Duration: 1 year

Course Outline: This programme will provide engineers will the technical competences to provide solutions to deliver safe/clean water. The programme will also give opportunities to students to study economics and the project management of large projects. Key components of this programme are a focus on understanding and using modern hydraulic modelling tools, and working in design groups.

Indicative Content: Core: Hydrology & Water Resources; Hydraulic Modelling; Design of Sustainable Environmental Systems; Hydropower; Water Quality Modelling; Water Resources in Developing Countries; Applied Field Hydrogeology; Advanced Fluid Mechanics; Numerical Analysis; Integrated Design Project. Options**:** Computational Methods in Civil Engineering; Turbomachines & Advanced Fluid Dynamics; Environmental Economics; Engineering Finance Project Management; Applied Statistics for Engineers; Computational Fluid Dynamics; Environmental Impact Assessment; Global Climate Change; Introduction to Applied Field Hydrology.

Admission Requirements: Minimum entry requirement is a Second Class Honours Grade 1 in civil/environmental engineering or equivalent. Applications from candidates from cognate disciplines will be considered on a case-by-case basis.

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: [shortened as] https://bit.ly/2nAaLLH

Application: **PAC Code: GYE23**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

K13 MSc in Sustainable Energy TCD

Study Location: Trinity College Dublin

Course Duration: 1 year

Course Outline: The MSc in Sustainable Energy is designed to provide engineers, and other suitably qualified graduates with a specialist understanding of energy management as well as sustainable energy generation. The course will advance your knowledge in efficiency techniques, sustainable energy technologies and energy management systems and strategies. It also includes theory and practice along with economics, management, current legal requirements and standards.

Indicative Content: Civil Engineering Management; Research Methodology; Research Dissertation; Wind Energy; Solar Energy Conversion and Applications; Building Energy Physics and Control; Energy Policy and Demand; Renewable Heat; Wave & Hydro Energy

Admission Requirements: An upper second honours degree (or equivalent) in a Civil Engineering or related degree. Relevant industrial experience may be taken into account in allocating places where the course is oversubscribed.

Course Webpage: https://www.tcd.ie/civileng/msc-in-sustainable-energy-engineering/

Application: Apply online via course webpage.

K15 MEngSc Sustainable Energy* UCC

Study Location: University College Cork

Course Duration: 1 year

Course Outline: This programme aims to equip students with the information base and skill set to actively participate in this growing global market where energy/environment policy and technological innovation meet. It will provide students with knowledge and understanding of: (i) energy trends, their impacts on the environment and the engineering solutions to mitigate the damage; (ii) engineering of individual renewable energy sources of wind, hydro, biomass, wave, solar and geothermal; (iii) energy conversion processes for electrical, thermal and transport energy supply; (iv) the integration of intermittent renewable energy with the electricity network; (v) sustainable energy end use in building design, construction and management.

Indicative Content: Sustainable Energy; Solar and Geothermal Energy; Electrical Power System; Energy in Buildings; Energy Systems in Buildings; Wind Energy; Energy Systems Modelling; Biomass Energy; Photovoltaic Systems; Control Engineering; The Engineer in Society; Ocean Energy; Biomass Energy; Power Electronic Systems; Preliminary Research Project; Dissertation.

Admission Requirements: Minimum 2:2 Honours BE or BEng Degree. Candidates with equivalent academic qualifications and suitable experience may be accepted.

IELTS: Minimum 6.5 overall score required with no section less than 6.0.

Course Webpage: https://www.ucc.ie/en/ckr26/

Application: **PAC Code: CKR26**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

K19 MEngSc in Water Waste and Environmental Engineering* UCD

Study Location: University College Dublin

Course Duration: 1 year

Course Outline: This programme prepares graduates to work in the broad field of environmental protection and management. Students in this programme will gain advanced theoretical and conceptual knowledge and understanding in the area of environmental engineering on topics such as engineering hydrology, environmental modelling, water and wastewater treatment, solid waste management, and environmental data analysis, among others.

Indicative Content: Core - Introduction to Water Resources Engineering 1; Science and Technology for Sustainable Development; Water Waste and Environmental Modelling; Environmental Impact Assessment; Quantitative Methods for Engineers; Environmental Research Project. Options - Unit Treatment Process in Water Engineering; Hydraulic Engineering Design; Introduction to Water Resources Engineering 2; Integrated Municipal Solid Waste; Remote Sensing; Advanced Air Pollution; Civil Engineering Systems; Freshwater Resources Assessment; GIS and Data Analysis; GIS and Remote Sensing; Geographical Information Systems for Policy and Planning; Applied Statistical Modelling.

Admission Requirements: A recognised bachelor's degree (honours) in engineering (minimum 4-yr, 240 ECTS), preferably in civil engineering or environmental engineering, or equivalent.

IELTS: Minimum 6.5 overall score required with no section lower than 6.0.

Course Webpage: [shortened as] www.bit.ly/1607Ekt

Application: Apply online via course webpage.

K20 MSc in Sustainable Resource Management: Policy and Practice* UL/NUIG

Study Location: University of Limerick

Course Duration: 1 year

Course Outline: The course will help develop government policy and economic recovery by producing top quality graduates who can contribute to a smart economy and hasten implementation of green technologies. The course applies an evidence based approach to developing solutions for all system users. Graduates will become technically fluent in selected environmental science theory, policy development, implementation and best practice. This course is suitable for graduates with a primary degree in the Environmental Sciences/Engineering/Economics or Geography/Biological Sciences/Ecology and Earth Sciences who wish to extend their knowledge and skills for a career related to resource management.

Indicative Content: NUIG – Ecosystem Assessment; Biodiversity and Conservation; Environmental Problems and Solutions. UL – Material and Energy Flows; Urban Form and Transport; Urban Household Sustainability; Sustainable Life-cycle Engineering; Research Project.

Admission Requirements: At least a second class honours primary degree in an appropriate discipline, or equivalent.

IELTS: Minimum 6.5 overall score required with no section lower than 6.0.

Course Webpage: [shortened as] http://bit.ly/1QCJSLp

Application: Apply online via course webpage**.**

L

Economics, Finance and Accounting

L6 MSc in Economic and Financial Risk Analysis* MU

Study Location: Maynooth University

Course Duration: 1 year

Course Outline: The MSc. Economic and Financial Risk Analysis provides students with international quality training in the fundamental concepts and tools required by the financial sector. The programme emphasises 'problem solving' through a combination of theoretical principles and empirical tools. Successful graduates are equipped with a wide range of economic, financial, quantitative and communication skills.

Indicative Content: Core – Microeconomics; Macroeconomics; Fundamental of Econometrics; Econometrics; Financial Economics; Advanced Derivatives; Financial Risk Analysis; Empirical Finance. Options – Thesis; Work Placement.

Admission Requirements: At least a 2.1 honours degree at undergraduate level in Finance or Economics, or where Finance formed a substantial component, or where there was a substantial quantitative component, such as Mathematics, Engineering, Computer Science, Maths Physics or Statistics.

IELTS: Minimum 6.5 overall score required with no section less than 6.0.

Course Webpage: [shortened as] https://bit.ly/29LvB1T

Application: **PAC Code: MHH64**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

L10 MSc in Financial Risk Management* TCD

Study Location: Trinity College Dublin

Course Duration: 1 year

Course Outline: This programme is designed for students with a quantitative background who want to explore how financial tools can be used to mitigate risk for corporations and society. Students learn how to interpret and assess the risk of individual financial instruments and assets, while critiquing modern finance from a risk perspective.

Indicative Content: Core – Mathematics of Contingent Claims; Corporate Finance; Credit Risk; Derivatives; Market Risk; Risk Quantification and Measurement; Operational Risk; Credit and Fixed Income Instruments; Dissertation. Options – Energy Finance and Trading; Financial Markets and Institutions; Enterprise Risk Management; Advanced Statement Analysis; Panel and Cross Sectional Data Analysis; Trading Psychology and Behavioural Analysis; Treasury Management; Private Equity; Financial Modelling & Scenario Analysis; Portfolio and Wealth Management; Financial Econometrics; Ethical Business.

Admission Requirements: A first or upper second-class honours degree, or equivalent.

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: https://www.tcd.ie/business/msc/financial-risk/

Application: Apply online via course webpage.

L11 MSc in Finance (Banking and Risk Management)* UCC

Study Location: University College Cork

Course Duration: 1 year

Course Outline: This programme involves advanced study of the practices of investment, banking and risk management. The course also involves an applied research project, using cutting-edge techniques and software. The programme is at the top end of graduate study in business/finance in Ireland and is designed for high achievers who wish to pursue high-end careers in financial market.

Indicative Content: Fund Management and Evaluation; Fixed Income Securities; Asset Pricing; Securities Valuation and Selection; International Finance; Treasury Risk Management; Financial Institutions and Money Markets; Derivative Securities; Macroeconomics for Financial Markets; Regulation and Compliance in Capital Markets; Applied Econometrics; Applied Time Series Analysis; Research Methods; Applied Research Project.

Admission Requirements: Upper second class honours degree (2:1 grade) or higher in a business subject, or in a related subject with a quantitative element such as mathematics, statistics, engineering, science, etc.

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: https://www.ucc.ie/en/ckl19/

Application: **PAC Code: CKL19**
Apply online via The Postgraduate Applications Centre – (PAC) – www.pac.ie – using the PAC application code above.

L14 MSc in Aviation Finance* UCDMS

Study Location: University College Dublin, Michael Smurfit Business School

Course Duration: 1 year

Course Outline: The MSc in Aviation Finance aims to advance students understanding of all aspects of aviation finance, with specific focus on the practical features of global aviation markets. It encourages students to develop creative and analytical approaches to problem solving in the aviation finance and leasing sphere and to enhance interpersonal and leadership skills.

Course Suitability: It is suitable for graduates from a wide variety of disciplines including business, economics, finance, engineering and science who want to pursue a career in the highly dynamic sector of Aviation Finance & Leasing.

Indicative Content: Core **–** Accounting/FSA for Aviation; Aviation Tax; Aviation Finance 1 and 2; Quantitative Methods; Capital Markets & Instruments; Aviation Economics; Topics in Aviation Finance; Doing Business Globally; Law of Aviation Finance. Options – Aviation Finance Research Project *or* Aviation Industry Internship *or* (choose 2) Advanced Treasury Management; Management of Banking Institutions; Mergers and Acquisitions; Financial Modelling.

Admission Requirements: (i) A minimum second-class honours degree (or equivalent) in Business/Commerce (with quantitative subjects), Economics, Finance, Engineering, Mathematics, Physics or a Finance related area; or (ii) A primary degree with a minimum of three years' work experience in the aviation industry.

IELTS: Minimum 7.0 overall score required with no section less than 6.0.

Course Webpage: [shortened as] https://bit.ly/2oDBN5K

Application: Apply online via course webpage.

L15 MSc in Renewable Energy & Environmental Finance* UCDMS

Study Location: University College Dublin, Michael Smurfit Business School

Course Duration: 1 year

Course Outline: As the only Masters in the world covering both energy finance and environmental finance, this course offers an unrivalled level of specialisation in global energy and environmental markets. The curriculum encompasses the major theoretical aspects of energy and the environment in economics and finance, along with modules focusing upon the tools and techniques for evaluating a comprehensive range of global and regional energy-environment issues.

Indicative Content: Core – Quantitative Methods for Finance; Financial Econometrics; Capital Markets and Instruments; Commodity Finance; Financial Theory; Financial Analysis; Environmental Finance; Electricity Markets; Energy Economics and Policy; Green Business; Portfolio and Risk Management. Electricity Markets; Energy Economics and Policy; Green Business; Portfolio and Risk Management. Options – Mergers and Acquisitions; Financial Modelling; Advanced Treasury Management; Aircraft Financing; Behavioural Finance; International Finance; Applied Investment Management; Research Project.

Admission Requirements: Minimum 2:1 undergraduate degree in (i) Business/Commerce including quantitative subjects such as Economics, Finance or Accounting; or (ii) a Finance-related area, Mathematical Finance, Economics, Mathematics, Statistics, Environmental Science, Science, Computer Science, Engineering or Physics. Applicants should have demonstrated strong academic ability (a 1.1 or 2:1) in a number of quantitative modules in their degree, such as Mathematics, Statistics, or Econometrics. Candidates may be asked to sit the Graduate Management Admissions Test (GMAT).

IELTS: Minimum 7.0 overall score required with no section less than 6.0.

Course Webpage: [shortened as] https://bit.ly/2AQedeu

Application: Apply online via the course webpage.

L18 Masters in Business Studies (MBS) – Economics and Finance* WIT

Study Location: Waterford Institute of Technology

Course Duration: 1 year

Course Outline: This course emphasises developing skills of critical thinking, analysis, debate, dealing with high levels of ambiguity, decision making and the simultaneous treatment of inter dependent decisions in a more complex environment. Students will gain a unique and valuable combination of an in depth knowledge of the theoretical underpinnings of financial markets with the relevant technical and analytical skills to apply in a 'real-world' environment.

Indicative Content: Econometrics; Innovation Management and Design; Financial Derivatives; Business Simulation 1; Seminar Series; Research Methods; Corporate Financial Interpretation; Financial Risk and Regulatory Management; Applied Consultancy Business Simulation 2; International Study Trip; Qualitative Research or Quantitative Research Methods; Monetary Economics; Dissertation.

Admission Requirements: Usually a 2:1 award in a strong specialist business/economics and finance undergraduate degree or a general business undergraduate degree with an economics and finance major/specialism. Please note the English language requirements for admission given on the website (also see p3).

IELTS: Minimum 6.5 overall score required with no section less than 6.0.

Course Webpage: [shortened as] www.bit.ly/17TV1Dg

Application: **PAC Code: WD507**
Apply online via The Postgraduate Applications Centre – (PAC) – www.pac.ie – using the PAC application codes above.

M

Management and Business

M1 Master of Business AIT

Study Location: Athlone Institute of Technology

Course Duration: 1 year

Course Outline: This masters in designed for students who have graduated from a broad spectrum of business and related degree programmes who wish to upgrade and enhance their knowledge and skills to avail of global business opportunities. Central to the course design is engagement with external businesses and organisations. You will also gain a deeper understanding of businesses and the environments they operate in, as well as skills such as marketing, strategic analysis and information systems.

Indicative Content: International Corporate Strategy; Services Marketing Management; New Venture Creation and Growth; Business Model Development; Information Systems for Managers; Innovation & Creativity; Personal and Professional Development; Research Methods; Research Project.

Admission Requirements: Students are expected to have a minimum of a Bachelor Degree in business or a cognate discipline at 2.2 level or an approved equivalent qualification.

Course Webpage: https://www.ait.ie/courses/master-of-business

Application: Application forms can be downloaded at: www.ait.ie/international/non-eustudents
For enquiries, contact Mary Simpson, AIT International Office - international@ait.ie or +353 90 642 4562.

M4 MSc in Management Practice DBS

Study Location: Dublin Business School

Course Duration: 1 year

Course Outline: The applied nature of the programme delivery ensures graduates are equipped to play a vital role in the management of any organisation. They will be equipped to interpret and synthesise information to confidently resolve complex issues which face today's organisations. Graduates will gain a deep level of knowledge and understanding of current issues within Management and then will apply this knowledge to real work situations to gain experience of practical applications.

Indicative Content: Core – Marketing Analysis; Strategic Management and Leadership; Financial Analysis; Innovation and Change Management; Information Systems and Project Management; Human Capital Management and Development; Research Methods I and II; Dissertation. Options – Work Based Learning; Management Simulation and Personal and Professional Development.

Admission Requirements: A minimum Second Class Honours Degree (2:2) in any discipline from a recognised third level institution. In some cases where an individual does not have a 2:2 or higher degree, they may be considered if they have at least 3 years appropriate business management experience

Course Webpage: [shortened as] https://bit.ly/2MchDgc

Application: Apply online via the course webpage.

M5 MSc in Human Resource Management* DCU

Study Location: Dublin City University

Course Duration: 1 year

Course Outline: The innovative and distinguishing features of this programme are its focus on international elements of management, its emphasis on enhancing leadership capability, and the importance given to building professional competencies. You will also develop insights into the latest developments in HRM, including cross-cultural management, people management, and the strategic importance of the HR function.

Indicative Content: Labour Law; Organisational Analysis; Management Research Report/Dissertation; People Management & Development; Researching HRM; Managing Organisational Learning & Knowledge; Leadership & Career Development; Selection & Assessment; Managing Employee Performance and Reward; International HRM; International Employee Relations; Strategic Human Resource Management.

Admission Requirements: A second class honours grade 1 degree (or international equivalent).

IELTS: Minimum 6.5 overall score required, with a minimum score of 6.5 in writing and speaking, and a minimum 6.0 in listening and reading.

Course Webpage: [shortened as] https://bit.ly/2L0sN2U

Application: **PAC Code: DC632**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

M8 MSc in Supply Chain Management DIT

Study Location: Dublin Institute of Technology

Course Duration: 1 year

Course Outline: The overall learning outcomes of the programme are to provide participants with a detailed knowledge of the theory and practice of SCM, develop graduates to contribute effectively to multi-discipline teamwork aimed at radical improvements in supply chain capability, prepare graduates of all disciplines for a variety of roles in SCM, and provide personal development opportunities for students in parallel with their meeting career development objectives.

Indicative Content: Core – Introduction to Supply Chain Management; Research Methods; Understanding Customer Service; Manufacturing Strategy and Operations; Physical Distribution Management; Purchasing; Information Technology in the Supply Chain; Introduction to Business Strategy; Dissertation. Options – Managing People; Management of Information Systems.

Admission Requirements: Applications will be assessed based on your academic grades and may also take into account your work/life experience.

Course Webpage: [shortened as] http://bit.ly/2xccNp4

Application: Apply via the 'Non-EU Sept Intake' button on the course webpage.

M9 MSc in Supply Chain Management ITC

Study Location: Institute of Technology, Carlow

Course Duration: 1 year

Course Outline: This Masters course offers a robust understanding of the concepts and best practices in Supply Chain Management for application in today's global economy.

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

Admission Requirements: An undergraduate degree with a minimum 2:2 or equivalent in a related discipline.

Course Webpage: [shortened as] https://bit.ly/2MsyUlz

Application: Apply directly to the International Office by emailing noneuapply@itcarlow.ie with an *IT Carlow Non-EU Application Form*, which is available for download at https://bit.ly/2vSovWB.

M10 MSc in Information Technology Management ITC

Study Location: Institute of Technology, Carlow

Course Duration: 1 year

Course Outline: Drawing on best practise from Ireland and abroad, the programme is designed to meet current industry needs and is aimed at developing academic knowledge and practical skills in areas such as IT management, leadership strategies and techniques, IT related project management and tools, operational and resource management of data and information systems, and data security.

Indicative Content: Leadership & Strategy; Innovation Management; Technology Integration; Project Management; Information Security Management; Data & Information Systems Management; Vendor & Service Management; Dissertation; Research Methods.

Admission Requirements: An undergraduate degree with a minimum 2:2 or equivalent in Computer Science or Electronic Engineering.

Course Webpage: [shortened as] https://bit.ly/2wd1GMz

Application: Apply directly to the International Office by emailing noneuapply@itcarlow.ie with an *IT Carlow Non-EU Application Form*, which is available for download at https://bit.ly/2vSovWB.

M11 Master of Business in Marketing & Management Strategy LIT

Study Location: Limerick Institute of Technology

Course Duration: 1 year

Course Outline: This programme will employ a learner-centred instructional philosophy, namely Problem Based Learning (PBL). The aim of PBL is to prepare learners for the demands of real life marketing and management positions in a rapidly changing, knowledge-based economy. In a PBL environment, learners are encouraged to solve problems, which are set in a real world framework.

Indicative Content: Integrated Marketing Communications (incl. New Media); Financial Analysis for Management Decisions; Business Research Methods; Planning, Strategy and Innovation; Consumer Behaviour and Relationship Management; Branding and Product Management & Commercialisation; Research Thesis.

Admission Requirements: An undergraduate degree with a minimum 2:2 or equivalent in business management and/or marketing, or a degree in business management and/or marketing or an appropriate professional business qualification and at least 2 years relevant professional experience/responsibility.

Course Webpage: [shortened as] https://bit.ly/1ie36y1

Application: Apply directly to the International Office by emailing international@lit.ie with an *LIT International Application Form*, which is available for download at https://bit.ly/2OH0oBe.

M12 MSc in Strategy and Innovation* MU

Study Location: Maynooth University

Course Duration: 1 year

Course Outline: Students develop a blend of individual competencies necessary to be successful managers, including teamwork, communication, and leadership skills, coupled with organisational level insights into how firms can design strategies and innovate to deliver value for customers. It is suited to both recent graduates interested in developing a graduate management career and experienced managers and entrepreneurs interested in developing the skills and capabilities necessary to develop and implement strategic initiatives and lead organisations.

Indicative Content: Innovation; Strategic Management: Tools and Concepts; Digital Business; Career Planning and Development; Leadership; Strategy Live; Financial Management; Actionable Insights Through Research; Placement Project.

Admission Requirements: Candidates must hold a Business, Management, or Marketing degree (level 8), or a Business-related degree, having achieved a minimum of a 2.2 honours (or equivalent) overall. Alternatively, you may hold a non-Business degree (minimum 2.2 overall) with at least five years' work experience.

IELTS: Minimum 6.5 overall score required with no section less than 6.0.

Course Webpage: [shortened as] https://bit.ly/2xaNOlc

Application: **PAC Code: MH54D**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

M15 MSc in Human Resource Management* NUIG

Study Location: NUI Galway

Course Duration: 1 year

Course Outline: The programme examines the nature of work and explores industrial relations and human resource management in changing national and international markets. The focus is on the people aspect of business and explores how the relationship between employers and employees can be managed to the best advantage of both parties.

Indicative Content: People Management & Development; Employee Relations; Human Resource Development; Dissertation; Research Project; Research Methods; Strategic Management; European Labour Markets; Strategic Modelling; Reward Systems; Industrial Relations and Employment Law; Leadership and Change; HR Consultancy; International Human Resource Management; Equality and Diversity in Employment; Developing Skills for Business Leadership.

Admission Requirements: Normally a 2:1 Honours degree (or equivalent) in business, management or a related discipline. Experience is also considered. Additional requirements: (i) A personal statement explaining your reasons for choosing this programme, and (ii) An interview if requested.

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: [shortened as] http://bit.ly/1ihIlAV

Application: **PAC Code: GYC02**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

M19 MSc in Food Business Strategy* UCDMS

Study Location: University College Dublin, Michael Smurfit Business School

Course Duration: 1 year

Course Outline: The curriculum has been co-devised by UCD Smurfit School and UCD School of Agriculture and Food Science in order to offer a unique opportunity to receive the highest quality business training as well as to gain a deep understanding of the food sector. Students will gain advanced knowledge of the factors specific to food effecting the sustainability of food production and the role that innovation can play in the sector. They will also gain an appreciation of the increasingly complex and global environment in which the food business currently operates and the uncertainties and risks attached to food production.

Indicative Content: Food Policy; Customer Driven Marketing for the Food Industry; Competitive Strategy in the Global Food Industry; Food Business Innovation; Economics of Food; Supply Chain Management in Global Food Systems; Leadership for Growth in the Food Industry; Group Food Strategy Project.

Admission Requirements: A minimum second-class honours degree (or equivalent) in any discipline, or a primary degree with a minimum of three years' work experience

IELTS: Minimum 7.0 overall score required with no section less than 6.0.

Course Webpage: [shortened as] http://bit.ly/1jUoBj5

Application: Apply online via course webpage.

M22 MSc in Strategic Management & Planning* UCDMS

Study Location: University College Dublin, Michael Smurfit Business School

Course Duration: 1 year

Course Outline: The course content has been designed to equip students with the skills to devise and successfully implement strategic initiatives based upon detailed assessment of the internal and external environments of a company. The course will hone your teamwork and business communication skills by working on real-life business situations to identify and resolve strategic and operational business problems and offer recommendations.

Indicative Content: Core – Economic Foundations of Strategy; Planning and Decision Making Techniques; Behavioural Foundations of Strategy, Planning and Control; Strategic Resource Allocation; Managing the Negotiation Process. Options – Project Management; New Venture Dynamics; Leadership Development Skills; Contemporary Issues in Strategy; Economics of Entrepreneurship; Creativity Innovation & Entrepreneurship; Technology & Innovation Strategy; Mindfulness & Resilience at Work; Technology & Innovation Strategy; Managing, Leading & Coaching Change; The Science of Teams; Cross-Cultural Management; Globalisation & Social Movement; International HRM; Financial Management; SMP Dissertation.

Admission Requirements: A minimum second-class honours degree (or equivalent) in any discipline, or a primary degree (or equivalent) with a minimum of three years' relevant business work experience.

IELTS: Minimum 7.0 overall score required with no section less than 6.0.

Course Webpage: [shortened as] https://bit.ly/2lm7rFB

Application: Apply online via course webpage.

M23 MSc in Project Management* UL

Study Location: University of Limerick

Course Duration: 1 year

Course Outline: This course aims develop knowledge and understanding of the theories and principles of modern approaches to managing projects. Learners will gain skills in critically analysing and engaging actively in the development and integration of project management as a way of work within organisations. Competencies to manage groups and teams and to interact effectively with project stakeholders will be developed and project management best practice in managing human, physical and financial resources throughout the project lifecycle will be studied. The concepts and theories of corporate and social responsibility will be introduced to provide a framework for planning and evaluating the actions and performance of a project in the context of sustainable and socially responsible activity.

Indicative Content: Knowledge and Information Management in Project Environments; Project Management Science and Principles; Strategy Formulation and Implementation; Project Planning and Control; People and Behaviour in Projects; Decision Analysis and Judgement in Projects; Research in Projects and Organisations; Commercial Management of Projects; International Project Management; Project Leadership & Governance; Project Management Simulation; Research Project or Confirmation Paper.

Admission Requirements: Minimum of 2:2 honours primary degree or equivalent in a project management related field, such as engineering, science, business, information technology, public administration, health and education. Candidates may be selected for interview to determine suitability.

IELTS: Minimum 6.5 overall score required with no section less than 6.0.

Course webpage: www.ul.ie/graduateschool/course/project-management-msc

Application: Apply online via course webpage.

M24 MA in Business Management* UL

Study Location: University of Limerick

Course Duration: 1 year

Course Outline: This course covers the fundamental business disciplines: accounting, business communications, economics, human resource management, information management, knowledge management, management principles, marketing management, organisational behaviour and strategic management.

Indicative Content: Economics for Business; Management Principles; Information Management; Organisational Behaviour; Marketing Management; Financial Management and Decision Making; Knowledge Management; Business Communication; Human Resource Management; Strategic Management; Business Simulation; MA Confirmation Paper.

Admission Requirements: Minimum of a 2:2 Honours primary degree in any field other than Business or Commerce related fields, or equivalent.

IELTS: Minimum 6.5 overall score required with no section less than 6.0.

Course Webpage: [shortened as] www.bit.ly/17TW06w

Application: Apply online from the course webpage

N

Information Systems & Communications Technology

N1 MSc in Data Analytics AIT

Study Location: Athlone Institute of Technology

Course Duration: 1 year

Course Outline: Students will develop their skills in areas including database technologies, data manipulation languages including SQL and the R programming language. In order to understand the data, a range of techniques will be taught, including programming for Big Data, statistics and probabilities and the interpretation of data. Interwoven within these modules is the use of industry-standard data analytics software tools.

Indicative Content: Relational Databases in the Era of Big Data; Programming for Big Data; Data Analytics; Statistics for Data Analysis; Data Driven Decision Making; Advanced Analytics; Research Methods; Databases for Big Data; Data Visualisation; Industry-led Project.

Admission Requirements: An honours degree in Business, Science or Engineering, with a minimum grade of 2.1 (60%), comprising of at least 30 ECTS credits in any combination of maths, computer science or engineering.

Course Webpage: https://www.ait.ie/courses/master-of-business

Application: Application forms can be downloaded at: www.ait.ie/international/non-eustudents
For enquiries, contact Mary Simpson, AIT International Office - international@ait.ie or +353 90 642 4562.

N2 MSc in Software Engineering AIT

Study Location: Athlone Institute of Technology

Course Duration: 1 year

Course Outline: The aim of this programme is to provide an opportunity for computer professionals and engineers to enhance their knowledge and expertise in areas of current active research and development in software engineering. Participants gain exposure to the various techniques for performing academic research. The course also aims to provide an environment in which the participant is exposed to new technological developments, to ethical and social issues affecting the computer industry, and to the requirement to uphold general professional standards.

Indicative Content: Software Engineering Project; Software Design; Data Science; Service-oriented Architecture; Agile Build and Delivery; Database Systems; Computer Networks and Telecommunications; Data Visualization; Rich Internet Applications.

Admission Requirements: Honours (Grade 2.2) degree in an appropriate engineering, computing or cognate discipline, or an equivalent qualification. Appropriate experience (or appropriate qualifier) may also be required depending upon the degree qualifications.

Course Webpage: [shortened as] https://bit.ly/2PuhfZm

Application: Application forms can be downloaded at: www.ait.ie/international/non-eustudents
For enquiries, contact Mary Simpson, AIT International Office - international@ait.ie or +353 90 642 4562.

N3 MSc in Information Security CIT

Study Location: Cork Institute of Technology

Course Duration: 1 year

Course Outline: This programme aims to fill the ever increasing skills gap in the area of information security and delivers material that follows the most current practice. 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.

Indicative Content: Core - 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. Options - Cloud Security; Data Analytics; Malware Investigations; Malware Reverse Engineering; Threat Intelligence; Software Security;

Admission Requirements: A minimum of an Honours Degree in Computing or in a cognate discipline.

Course Webpage: http://www.cit.ie/course/CRKINFS9

Application: Apply directly to the International Office by emailing international@cit.ie with an application form, which is available for download at international.cit.ie/how-to-apply.

N4 MSc in Artificial Intelligence CIT

Study Location: Cork Institute of Technology

Course Duration: 9 months

Course Outline: This programme aims to produce AI engineers with a highly relevant skillset in AI topics. Students will learn how to use and develop intelligent computer systems that can learn from experience, recognise patterns in vast amounts of data and reason strategically in complex decision-making situations. The programme content will deliver a comprehensive range of topics integral to the study of AI. Students will be presented with opportunities to work on industry focused projects and research opportunities linked to the domain expertise of each lecturer.

Indicative Content: Core – Practical Machine Learning; Knowledge Representation; Metaheuristic Optimisation; Big Data Processing; Research Practice & Ethics; Deep Learning; Decision Analytics; Research Project. Options – Natural Language Processing; Recommender Systems; AI for Sustainability; Computer Simulation & Analysis; Robotics & Autonomous Systems; Planning and Scheduling; Fraud and Anomaly Detection.

Admission Requirements: A minimum second-class honours degree in Computer Science, Computing, Electrical/Electronic Engineering or a cognate discipline. Furthermore, all successful applicants are required to have a proficiency in mathematics, including statistics, and an advanced level of coding competency in a modern high-level computer programming language.

Course Webpage: http://www.cit.ie/course/CRKARIN9

Application: Apply directly to the International Office by emailing international@cit.ie with an application form, which is available for download at international.cit.ie/how-to-apply.

N5 MSc in Information Systems with Computing DBS

Study Location: Dublin Business School

Course Duration: 1 year

Course Outline: The programme is designed to create a deep level of knowledge and understanding in core areas such as programming, databases, web technologies and security while also offering practical skills in contemporary topics such as data analytics, distributed systems and mobile and social computing. In addition, the programme allows students to explore the issues around the management of information technology in business and industrial contexts.

Indicative Content: Software Engineering; Advanced Databases; Web and Mobile Technologies; Personal and Professional Development; Research Methods I and II; Data and Data Analytics; Computer Systems Security; Enterprise Information Systems; Project.

Admission Requirements: A minimum Second Class Honours (2:2) in an IT/IS discipline or a Business discipline where IT/IS is a significant component of the degree from a recognised third level institution, or equivalent qualification in a cognate discipline.

Course Webpage: [shortened as] https://bit.ly/2npEG9q

Application: Apply online via the course webpage.

N6 MSc in Computing (Data Analytics)* DCU

Study Location: Dublin City University

Course Duration: 1 year

Course Outline: The MSc in Computing offers a choice of Majors, designed to equip graduates with a range of cutting-edge skills, enabling them to produce high-quality software and systems that deliver solutions to business and the economy. The Data Analytics major provides students with a deep understanding of the issues, techniques and tools to examine large amounts of raw data in order to extract meaningful conclusions from the information these contain.

Indicative Content: Research/Professional Skills; Cloud Architectures; Data Management and Visualisation; Statistical Data Analysis; Machine Learning; Data Analytics and Data Mining; Mathematical Methods/Computational Science.

Admission Requirements: The entry requirements for this programme is a 2:1 or higher in computer science or related discipline.

IELTS: Minimum 6.5 overall score required with no section lower than 6.0.

Course Webpage: [shortened as] http://bit.ly/2uYqEln

Application: **PAC Code: DC836**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above. Additional application information is posted on the course webpage.

N7 MSc in Computing (Cloud Computing)* DCU

Study Location: Dublin City University

Course Duration: 1 year

Course Outline: The MSc in Computing offers a choice of Majors, designed to equip graduates with a range of cutting-edge skills, enabling them to produce high-quality software and systems that deliver solutions to business and the economy. This major investigates fundamental issues relating to cloud architecture, cloud security, data mining and networks.

Indicative Content: Core – Research/Professional Skills; Cloud Architectures; Concurrent Programming; Cloud Technologies; Network Security. Options – Systems Software; Cryptography & Number Theory; Secure Programming; Data Management and Visualisation; Formal Methods; Machine Learning.

Admission Requirements: The entry requirements for this programme is a 2:1 or higher in computer science or related discipline.

IELTS: Minimum 6.5 overall score required with no section lower than 6.0.

Course Webpage: [shortened as] http://bit.ly/2uYqEln

Application: **PAC Code: DC836**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above. Additional application information is posted on the course webpage.

N8 MSc in Computing (Software Engineering)* DCU

Study Location: Dublin City University

Course Duration: 1 year

Course Outline: The MSc in Computing offers a choice of Majors, designed to equip graduates with a range of cutting-edge skills, enabling them to produce high-quality software and systems that deliver solutions to business and the economy. The Software Engineering major will equip software engineering professionals with additional cutting-edge skills to produce high-quality software and systems that deliver value to business and the economy.

Indicative Content: Core – Research/Professional Skills; Systems Software; Formal Methods; Concurrent Programming; Software Process Quality. Options – Secure Programming; Data Management and Visualisation; Cryptography and Number Theory; Cloud Architecture; Cloud Technology; P-Key Cryptography & Security Protocols.

Admission Requirements: The entry requirements for this programme is a 2:1 or higher in computer science or related discipline.

IELTS: Minimum 6.5 overall score required with no section lower than 6.0.

Course Webpage: [shortened as] http://bit.ly/2uYqEln

Application: **PAC Code: DC836**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above. Additional application information is posted on the course webpage.

N9 MSc in Computing (Security and Forensic Computing)* DCU

Study Location: Dublin City University

Course Duration: 1 year

Course Outline: The MSc in Computing offers a choice of Majors, designed to equip graduates with a range of cutting-edge skills, enabling them to produce high-quality software and systems that deliver solutions to business and the economy. This major focuses on security of all software systems and attacks the problem through emphasising preventive approaches. The programme's dual approach studies system fundamentals and cryptographic methods, as well as exploring forensic investigative techniques.

Indicative Content: Research/Professional Skills; Cryptography and Number Theory; Secure Programming; Systems Software; Forensic Computing; P-Key Cryptography & Security Protocols; Formal Methods; Network Security.

Admission Requirements: The entry requirements for this programme is a 2:1 or higher in computer science or related discipline.

IELTS: Minimum 6.5 overall score required with no section lower than 6.0.

Course Webpage: [shortened as] http://bit.ly/2uYqEln

Application: **PAC Code: DC836**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above. Additional application information is posted on the course webpage.

N10 MSc in Computing (Advanced Software Development)* DIT

Study Location: Dublin Institute of Technology

Course Duration: 14 months

Course Outline: This programme aims to produce graduates with the knowledge and skills to develop the complex software solutions that organizations need to compete in the emerging global digital economy. The target audience is those with an undergraduate qualification in computer science or software development. Students will study advanced technical modules in programming, design, databases, architecture and web development to acquire the advanced technical skills needed to practice as software developers working on leading edge development projects. In addition students will be equipped with key professional, technical communications skills needed to practice as a professional in the computing industry.

Indicative Content: Core - Probability & Statistical Inference; Machine Learning; & Database Design for Data Analytics; Data Management; Data Mining; Visualisation; Problem Solving, Communication and Innovation; Case Studies in Computing; Research Writing & Scientific Literature; Methods and Proposal Writing. Options – Geographic Information Systems; Spatial Databases; Ubiquitous Computing; Universal Design; Man and Machine; Bioinformatics; Programming for Big Data.

Admission Requirements: Minimum 2.1 honours degree (or 2.2 with at least 2 years of relevant work experience) in Computer Science, Mathematics or other suitably numerate discipline with computing as a significant component.

IELTS: Minimum 6.5 overall score required with no section less than 6.0.

Course Webpage: [shortened as] http://bit.ly/2dMrYvy

Application: Apply via the 'Non-EU Sept Intake' button on the course webpage.

N11 MSc in Electronic and Communications Engineering DIT

Study Location: Dublin Institute of Technology

Course Duration: 1 year

Course Outline: This programme aims to provide industry with engineers with a high level of in-depth knowledge and expertise in a selected range of advanced topics in Electronic and Communications Engineering. This course is delivered through lectures, practical work, assignments and tutorials.

Indicative Content: Core – Entrepreneurship for Engineers; Research Methods; Statistical and Knowledge Management; Dissertation. Options – VLSI Design; Wireless Systems; Advanced Digital Signal Processing; Microelectronic Materials and Devices; Optoelectronics; Energy Conversion & Use.

Admission Requirements: A minimum Second Class Honours Bachelor Degree (2.2 grade or higher) in Electronic, Computer or Communications Engineering or a related discipline. Applications from candidates with at least a second class honours degree in Applied Physics or other numerate degree, along with candidates with other 2.2 Honours Bachelor Degrees and suitable strong industrial experience may also be considered on a case-by-case basis

Course Webpage: [shortened as] http://bit.ly/2dAxdSQ

Application: Apply via the 'Non-EU Sept Intake' button on the course webpage.

N12 MSc in Computing GCD

Study Location: Griffith College Dublin

Course Duration: 1 year

Course Outline: The Master of Science has been designed to give students an insight into the world of academic and industrial computing research. Students will also develop the skills to carry out innovative work and will gain the ability to research and mater technical issues, to analyse and present findings coherently, and to document their work in a professional manner.

Indicative Content: Algorithm Design and Analysis; Cloud Computing; Concurrent and Parallel Programming; Communication Security; Dissertation/Dissertation by Practice; Information Retrieval and Web Search; New and Emerging Technologies; Research Methods; Telecommunications and Network Services; Dissertation.

Admission Requirements: Candidates applying for this course should have a 2:2 honours degree in Computing Science, or a 2:2 Higher Diploma in Computing or related discipline or international equivalent and/or relevant work experience.

Course Webpage: [shortened as] http://bit.ly/2xiSCoA

Application: Apply via the course webpage.

N13 MSc in Network and Information Security GCD

Study Location: Griffith College Dublin

Course Duration: 1 year

Course Outline: Designed specifically to address a growing need in the industry, the MSc in Network and Information Security at Griffith College is a 1-year programme which aims to enable students to develop robust and efficient network security plans, strategies and solutions.

Indicative Content: Information and Network Security Technologies; Legal and Ethical Aspects of Information Security; IT Infrastructure Protection & Ethical Hacking; Cryptography; Computer Forensics; Managing Information Security; Telecommunication Networks and Services; Research Methods; Dissertation.

Admission Requirements: Candidates applying for this course should have a 2:2 honours degree in Computing Science.

Course Webpage: [shortened as] http://bit.ly/2wp5KMw

Application: Apply via the course webpage.

N14 MSc in Computing (Applied Cyber Security) – Pathway 1 only ITB

Study Location: Institute of Technology, Blanchardstown

Course Duration: 1 year

Course Outline: This programme will give you the skills and knowledge to secure personal data and allow graduates to work as security professionals in any of the business and industry sectors. This course focuses on developing hands-on skills backed by theoretical knowledge. An essential part of the master's degree is the creation of a body of work presented as a thesis which demonstrates ability in research methods, analytics and report writing. The graduates of this programme will be independent learners, good problem solvers and experienced researchers.

Indicative Content: Core – Digital Forensics; Secure Communication and Cryptography; Network Security; Research Skills and Ethics; Research Project. Options – Biometrics; Secure Programming; Application Security; Business Continuity and Cloud Security; Cyber Crime Malware; Security Intelligence.

Admission Requirements: Minimum Second Class Honours grade 2 (or equivalent) in a Bachelor of Science (Honours) in Computing level 8 or equivalent.

Course Webpage: http://www.itb.ie/StudyatITB/bn528ft.html

Application: Apply via application form, available at http://www.itb.ie/StudentCategories/howtoapply.html.

N15 MEng in Internet of Things Technologies – Pathway 1 only ITB

Study Location: Institute of Technology, Blanchardstown

Course Duration: 1 year

Course Outline: The aim of this programme is to contribute to meeting the skills needs for sustainable IoT deployment and expansion. Specifically, the programme will produce graduates with: Comprehensive qualifications in research and project management skills that can be directly applied in to high-end research, development and innovation to support engineering practice in the predicted future growth in IoT; Knowledge and competences for design, commissioning and maintenance of IoT systems and processes.

Indicative Content: Core – Embedded Systems; Information Transmission & Management; Software Engineering; Research Methods; Statistical Analysis for Engineers; IoT Systems; Secure Communication & Cryptography; Research Project. Options – Technology & Innovation Management; Geodata Provisions; Advanced Signal Processing; Network Security; Programming for Big Data.

Admission Requirements: Minimum 2:2 honours degree in Electronic Engineering, Electrical & Electronic Engineering, Computer Engineering, Mechatronic Engineering, and Computer Science, or cognate disciplines.

Course Webpage: http://www.itb.ie/StudyatITB/bn528ft.html

Application: Apply via application form, available at http://www.itb.ie/StudentCategories/howtoapply.html.

N16 MSc in Data Science ITC

Study Location: Institute of Technology, Carlow

Course Duration: 1 year

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

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

Admission Requirements: An undergraduate degree with a minimum 2:2 or equivalent in computer science or mathematical sciences, or another area with a strong numerate content (e.g. engineering, finance, physics, biosciences or economics).

Course Webpage: [shortened as] https://bit.ly/2vSH0dz

Application: Apply directly to the International Office by emailing noneuapply@itcarlow.ie with an *IT Carlow Non-EU Application Form*, which is available for download at https://bit.ly/2vSovWB.

N17 MEng in Digital Health and Medical Technologies MU/DCU

Study Location: Maynooth University / Dublin City University

Course Duration: 1 year

Course Outline: This programme is designed for engineering professionals with a strong background in electronics and computer technologies, and will provide them with advanced education in medically relevant engineering technologies. The programme will provide them with the relevant concepts, methodological tools and knowledge of medical legal, ethical and regulatory frameworks. The modules on the programme are designed to provide expertise in two technical areas: firstly, the technology for designing new medical devices; and secondly, image and signal analysis to assist diagnosis and visualisation.

Indicative Content: Medical Sciences; Healthcare Ethics, Law, Risk Management and Regulatory Framework; 3D Interface Technologies; Medical Instrumentation; Connected Embedded Systems; Computer Vision; Wireless Communications; Advanced Control Systems; Project.

Admission Requirements: A minimum high 2:1 grade in Electronic Engineering, Computer Science or other cognate disciplines. Exceptions may be made for those with significant relevant work experience.

Course Webpage: [shortened as] https://bit.ly/2PxfwlS

Application: **PAC Code: 3U02F**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

N18 MSc in Cyber Security NCI

Study Location: National College of Ireland

Course Duration: 1 year

Course Outline: The aim of this programme is to provide learners with essential expert technical knowledge, competence and research skills of the most important technical concepts of cybersecurity and how they are applied in emerging areas such as device security and forensics. The course is technical and practical in nature, uniquely embedded in industry, and develops in-depth expertise of core technical topics within the area of cybersecurity.

Indicative Content: Core – Secure Programming for Web; Security Fundamentals; IT Law and Ethics; Network Security and Penetration Testing; Research in Computing; Secure Programming for Application Development; Cryptography; Research Methods; Internship. Options – Forensics and eDiscovery; Cloud Security; Malware Analysis; Domain Context; Incident Response and Analysis.

Admission Requirements: Minimum of a 2:2 honours degree in computing or a cognate area. Candidates are expected to have programming ability. Cognate area means a STEM (Science, Technology, Engineering, and Mathematics) degree that also taught programming/application development related modules.

Course Webpage: [shortened as] https://bit.ly/2OyYFxV

Application: Download an application form from www.ncirl.ie/International/How-to-Apply and email to admissions@ncirl.ie.

N19 MSc in Cloud Computing NCI

Study Location: National College of Ireland

Course Duration: 1 year

Course Outline: This course will provide you with the latest knowledge and competencies required by the fastest growing global industry: the cloud. Cloud computing has become a multi-billion euro industry and this course offers specialisations in two key areas: Infrastructure (IaaS - Infrastructure as a Service) and Development (SaaS - Software as a Service).

Indicative Content: Core – Cloud Architecture; Cloud Security; Utility Computing; Data Storage and Management; Research in Computing; Business Strategies for Cloud Computing; Research Methods. Options – Cloud Infrastructure Management; Cloud Application Development; Virtualisation; Programming for Data Analytics; Cloud Application Services; Industry Based Research Project; Research Project.

Admission Requirements: Minimum of a 2:2 honours degree in a cognate area.

Course Webpage: [shortened as] https://bit.ly/2vMCai2

Application: Download an application form from www.ncirl.ie/International/How-to-Apply and email to admissions@ncirl.ie.

N20 MSc in Information Systems Management* NUIG

Study Location: NUI Galway

Course Duration: 1 year

Course Outline: A variety of sought-after technical skills are covered in this course, using leading-edge industry software. Students gain practical knowledge of business system analysis and design; project management; database design; applications development and the business context of IS development and management. The teaching approach places a strong emphasis on hands-on-skills and problem-based learning.

Indicative Content: Core – Web Design and Development; Interactive Systems Design; Business Data Communications; Systems Development and Project Management; Database Systems; Business Applications Programming; Information Systems Management; Information Systems Strategy and Innovation; Applied Systems Analysis; Project. Options – Information Systems Innovation; Information Systems Security and Ethics; Decision Systems and Business Analytics; Advanced Applications Programming.

Admission Requirements: Normally a Second Class Honours Bachelor's Degree (or equivalent). Successful applicants will come from a variety of academic and professional backgrounds with prior exposure to information technology and/or business.

IELTS: Minimum 6.5 overall score required with no section less than 5.5.

Course Webpage: [shortened as] http://bit.ly/2bLE6jt

Application: **PAC Code: GYC24**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above

N21 MSc in Computer Science (Future Networked Systems) TCD

Study Location: Trinity College Dublin

Course Duration: 1 year

Course Outline: This programme deals with how things become smart and connected as software systems are more and more embedded in our everyday environments, from mobile social networking to managing city resources such as road traffic. Dealing with such large-scale, cyber-physical and distributed systems requires novel approaches that address timeliness, safety, privacy and scale challenges.

Indicative Content: Machine Learning; Research Methods; Innovation; Scalable Computing; Urban Computing; Security & Privacy; Advanced Software Engineering; Distributed Systems; Dissertation.

Admission Requirements: A 2:1 grade or higher from a reputable university in Computing or strongly related discipline. You need to be able to be fully competent in programming in C, C++ or Java.

Course Webpage: [shortened as] http://bit.ly/2x5PqNS

Application: Apply online via course webpage

N22 MSc in Computer Science (Intelligent Systems) TCD

Study Location: Trinity College Dublin

Course Duration: 1 year

Course Outline: This programme focuses on smart, interactive web applications and systems, which are becoming an integral part of our daily lives – at home, in the workplace, and in social interaction. Designing and building these systems requires expertise in artificial intelligence, human language understanding and generation, web systems and applications, data analytics and knowledge engineering.

Indicative Content: Machine Learning; Research Methods; Innovation; Artificial Intelligence; Knowledge & Data Engineering; Text Analytics; Information Retrieval & Web Search; Adaptive Applications; Advanced Software Engineering; Dissertation.

Admission Requirements: A 2:1 grade or higher from a reputable university in Computing or strongly related discipline. You need to be able to be fully competent in programming in C, C++ or Java.

Course Webpage: [shortened as] http://bit.ly/2x5AK1b

Application: Apply online via course webpage

N23 MSc in Information Systems for Business Performance* UCC

Study Location: University College Cork

Course Duration: 1 year

Course Outline: This course aims at providing students with a coherent set of skills essential in building, managing, and leveraging an effective and efficient Information Systems (IS) capability for the modern organisation. This

means providing students with a clear understanding of how to manage information systems and leverage the potential of the latest Information Technologies (IT) to create value for the firm; reducing costs, solving organisational problems or providing better products and services to customers.

Indicative Content: Business Analysis Requirements, Skills and Techniques; IT Sourcing and Project; Data Analysis and Design; Storage Technology; Electronic Business Models & Systems; IS for Organisational Performance; Leveraging IT Seminar Series; Application Design; IT Governance and Compliance; Databases for Management Information Systems; Optimising the Business Value of IT; Business Models for Disruptive Technology; Enterprise Business Intelligence; Professional Practice Skills; Collaborative Industry Research Project.

Admission Requirements: A Second Class Honours degree or higher, except graduates from degrees with high levels of software development content (e.g. business information systems, computer science, etc.).

IELTS: Minimum 6.5 overall score required with no section lower than 5.5.

Course Webpage: www.ucc.ie/en/ckl18

Application: **PAC Code: CKL18**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

N24 MSc in Computer Science (Interactive Media)* UCC

Study Location: University College Cork

Course Duration: 1 year

Course Outline: The broad aim of the course is to equip students from a wide range of backgrounds with a thorough understanding of the technology and industry-standard tools used in the digital media sector. On successful completion of the course, you will have a comprehensive knowledge of the underlying concepts, technologies and practices of interactive digital media and be able to apply these to create interactive digital media products.

Indicative Content: Core: Authoring; Web Development for Digital Media; Audio and Sound Engineering; Digital Video Capture and Packaging; 3D Graphics and Modelling; Dissertation. Options: Future and Emerging Interaction Technologies; Internet-based Applications; Digital Video Compression and Delivery; Human Computer Interaction; Mobile Multimedia; Audio Processing.

Admission Requirements: Graduates of any discipline who have achieved at least a 2:2 Honours degree, or equivalent professional qualification, provided there is no significant overlap between their previous courses of study and the content of this course.

IELTS: Minimum 6.5 overall score required with no section lower than 6.0.

Course Webpage: www.ucc.ie/en/ckr05

Application: **PAC Code: CKRO5**
Apply online via The Postgraduate Applications Centre (PAC) – www.pac.ie – using the PAC application code shown above.

N25 MSc in Computing Science* UCC

Study Location: University College Cork

Course Duration: 1 year

Course Outline: This MSc programme will provide you with the skills required to understand the entrepreneurship and innovation required for the software industry. Many national and multinational companies employ computer science graduates in areas such as software development and engineering, artificial intelligence, systems and networks, database and systems security as well as mobile multimedia, modelling, research and development. You will also get the chance to demonstrate the skills you have learned by completing a substantial research and development project.

Indicative Content: Core – Case Studies in Computing Entrepreneurship; Large-Scale Application Development and Integration; Database Technology; Information Storage and Retrieval; Project Development Skills; Dissertation in Computing Science. Options - Mobile Devices and Systems; Mobile Applications Design; Formal Methods for Distributed Systems; Model-Based Software Development; Optimisation; Services and Mobile Middleware; Multimedia Technology in Mobile Networks; Analysis of Networks and Complex Systems; Network Security; Data Mining.

Admission Requirements: Second class honours (2.2 grade) or higher degree in Computer Science or a closely related discipline. Applications from other suitably qualified candidate, or from those with equivalent experience/qualifications, will be considered.

IELTS: Minimum 6.5 overall score required with no section lower than 6.0.

Course Webpage: http://www.ucc.ie/en/ckr40/

Application: **PAC Code: CKR40**
Apply online via The Postgraduate Applications Centre – (PAC) – www.pac.ie – using the PAC application code above.

N26 MSc in Health Informatics* UL

Study Location: University of Limerick

Course Duration: 1 year

Course Outline: Health informatics is a multi-disciplinary, multi-dimensional field. This field focuses on the creation, modelling, management and sharing of health data and knowledge to support data analysis and timely decision making in medicine and health care together with the information science and technology to support these tasks. It is not solely a technical discipline but focuses on the relationship between the technology and its use in real-world settings i.e. solutions are designed in context, taking into account the social, cultural and organisational settings in which computing and information technology will be used in health care sectors.

Indicative Content: Health Informatics Applications; Electronic Health Record Management; Research Methods in Health Informatics; Medical Decision Support Systems; Requirements Engineering for Health Informatics; Health Informatics Project Management; Strategic Issues in Health Informatics; E-Health Systems; ICT for Evidence-Based Health Care; Research Project; Health Informatics Dissertation.

Admission Requirements: (i) A Health Care Administrator/Clerical Officer, Health Care Manager or Health Care Professional who holds a primary undergraduate degree (2.2 honours or higher), or (ii) an applicant who holds a

primary undergraduate degree (2.2 honours or higher) in a health sciences discipline, or (iii) an IT specialist who holds a primary undergraduate degree (2.2 honours or higher) with experience of working in a health care setting, or (iv) an applicant with at least 5 years relevant work experience who can satisfy the course admission team that he/she has the ability to complete and benefit from this course.

IELTS: Minimum 6.5 overall score required with no section lower than 6.0.

Course Webpage: [shortened as] https://bit.ly/2Q7emhj

Application: Apply online via course webpage**.**

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Tourism

O1 MSc in Tourism Management DIT

Study Location: Dublin Institute of Technology

Course Duration: 1 year

Course Outline: The programme is aimed at both professionals currently employed within the tourism industry and those from complementary backgrounds who wish to enter the tourism field. In this context it may be of particular interest to people coming from a heritage, languages, geography, marketing or business background. This programme aims to equip participants with the necessary expertise to manage, co-ordinate and develop tourism businesses and projects in Ireland and abroad. It is aimed at both professionals currently employed within the tourism industry and those from related fields. This dynamic programme encourages interaction between academics and industry practitioners from the national and international tourism sector.

Indicative Content: International Tourism Trends, Markets & Products; Tourism Destination Planning & Management; Managerial Finance & Entrepreneurialism; The Effective Manager; Emerging Industry Issues; Strategic Marketing & Digital Commerce; Dissertation (including Research Methods).

Admission Requirements: Second class honours degree (2:2 grade) or higher in any discipline.

Course Webpage: [shortened as] http://bit.ly/2dgF8zW

Application: Apply via the 'Non-EU Sept Intake' button on the course webpage.

O2 MSc in Hospitality Management DIT

Study Location: Dublin Institute of Technology

Course Duration: 1 year

Course Outline: This globally recognised hospitality programme is one of DIT's most sought after programmes. It is the first and only programme of its kind in the Republic of Ireland and provides participants with a top-level educational package that is delivered by leading academics and experts from the national and international hospitality sector. The programme covers all aspects of the hospitality industry with a business based curriculum that is designed to equip participants with the management skills and analytic capabilities necessary to obtain careers in a wide range of organisational settings.

Indicative Content: International Hospitality Operations Management; Strategic Revenue Management Solutions; Managerial Finance & Entrepreneurialism; The Effective Manager; Emerging Industry Issues; Strategic Marketing & Digital Commerce; Dissertation (including Research Methods).

Admission Requirements: Second class honours degree (2:2 grade) or higher in any discipline.

Course Webpage: [shortened as] http://bit.ly/2dMzHc7

Application: Apply via the 'Non-EU Sept Intake' button on the course webpage.

O3 MA in International Tourism* UL

Study Location: University of Limerick

Course Duration: 1 year

Course Outline: This programme is geared to provide students with an understanding of the international tourism industry and an appreciation of the key issues affecting its continued development. It also presents an opportunity to gain insights into the marketing and management issues impacting on the sector. Students are also presented with opportunities to update their language and IT skills, their communication and presentation skills, and to interact with tourism industry practitioners and visiting international faculty. Research skills are developed through dedicated methodology modules leading to the completion of a dissertation on a chosen topic in tourism. An innovative and integral part of this course is an international field trip which all students undertake.

Indicative Content: Tourism Principle and Practice; Economics of Tourism; Tourism Services Marketing; Tourism Enterprises; Research Methods; Economic Appraisal and Evaluation Techniques; Strategic Marketing for Tourism; International Tourism Trends; Tourism Planning and Development; Thesis.
Admission Requirements: Good honours (minimum 2.2) primary degree from a variety of disciplines including Economics, Geography, Sociology, Business Studies, Hotel Management, Languages, History, Anthropology, Marketing and others.

IELTS: Minimum 6.5 overall score required with no individual section lower than 6.0.

Course Webpage: [shortened as] http://bit.ly/UJx6Gw

Application: Apply online via the course webpage.