2001

2001 : Postgraduate Prospectus

Dublin Institute of Technology

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D·I·T

Contents

• Subject to re-validation.

•• Enrolment to this course takes place in alternative years. The next cycle will commence in the academic year 2002/2003.

••• Subject to validation
+ Runs jointly with the University of Dublin.

Foreword

This booklet provides an outline of the opportunities for postgraduate studies offered by the Dublin Institute of Technology. These include both taught courses and programmes of research leading to higher level awards, for full-time students and also for part-time students who may be already in employment. They are generally vocationally oriented and have a focus on the needs of industry, commerce and the job market.

Postgraduate courses involve scholarly work in a discipline area, at a higher level and over a more sustained period than can generally be achieved in undergraduate courses. Normally postgraduate studies are undertaken in an area closely related to the student's undergraduate discipline, but they may also be pursued to broaden expertise into another relevant discipline area. Postgraduate research aims to provide a fundamental training in the techniques of analysis, experimentation, investigation and synthesis and in writing up the findings in a thesis form that may lead to subsequent publication.

There is a significant and growing tradition of research and development throughout the constituent Schools of the Institute. Indeed, the Institute has a strong commitment to support and promote all phases of research, development and innovation. Opportunities are provided to individuals with diverse academic, professional and industrial backgrounds, to participate in postgraduate study on a full time basis. I am pleased to invite you therefore, to consider joining us to pursue your postgraduate studies, to further your career and to contribute to the development of the Institute.

Brendan Goldsmith
President Dublin Institute of Technology

General Information

Introduction

The Dublin Institute of Technology became an autonomous university-level institution in January 1993. The Institute has played a leading role in the development of technical, technological and business education in Ireland and is deeply involved with the latest developments in technology in all areas, while maintaining its commitment to industrial, economic and cultural development at both local and national levels. This booklet outlines the programmes of postgraduate study both by coursework and research, which operate in the Institute, as well as the postgraduate awards offered, the entry requirements and the application procedures for these programmes. Information about individual postgraduate courses may be obtained from the contact persons cited with each course description. The complete regulations for postgraduate study by research can be found in the booklet 'Regulations for Postgraduate Study by Research'. This may be obtained from:

Office of Graduate Studies and Research
DIT Fitzwilliam House
30 Upper Pembroke Street
Dublin 2

The evolving structure of DIT

The Dublin Institute of Technology is being re-organised into a single, integrated institution based on six broadly discipline-related Faculties under the following titles: Applied Arts, Built Environment, Business, Engineering, Science, Tourism and Food. It has a total enrolment of some 23,000 students including about 10,000 full-time third level students and close to 600 postgraduate students. Under its legislation DIT has the capacity to make its own Doctoral, Masters, Degree, Diploma and Certificate awards.

The DIT Campus in Dublin City

All of the centres of the Institute are located near the city centre, with three on each side of the river Liffey, and all are readily accessible by public transport. Students, who reside or find accommodation in the suburbs, can commute easily using Dublin Bus, DART services and other commuter rail services. Dublin, with a third-level student population of some 60,000, is a lively and exciting city with excellent services and amenities to make life as a postgraduate student an enjoyable and fulfiling experience. The Phoenix Park, the Dublin mountains, the sea, the canals, St. Stephen's Green, Grafton Street, the Temple Bar area and the many shops, restaurants, pubs, discos, theatres, cinemas and art galleries, are just some of the attractions of the capital.

Office of Graduate Studies and Research

The aim of the Office of Graduate Studies and Research is to provide a comprehensive support service to all postgraduate students (taught courses and research) attending any of the Faculties within the Dublin Institute of Technology. A number of services are provided by the office including research seminars, research training modules, research progress monitoring and workshops. Our goal is to promote and develop postgraduate education through quality taught courses and both applied and basic research (often with industrial links). Furthermore, to maintain the high quality of research carried out at DIT, we aim to recruit postgraduate students of an exceptional standard. If you are interested in becoming a student of the largest higher education Institute in Ireland, please do not hesitate to contact any of our team at our Dublin office.

DIT Library and Information Services

There are six constituent libraries within the Institute located at Aungier Street, Bolton Street, Cathal Brugha Street, Kevin Street, Mountjoy Square and Rathmines House. The DIT student ID card also serves as the library card. Hours of opening vary from library to library and according to the time of year. During term time most libraries are open until 9.30p.m. (Monday - Friday) although certain libraries close at 5.00p.m. on Fridays. Saturday opening is from 10.00a.m.- 5.00p.m. Please check the notices at each library for further information or check the DIT library Web site at: www.dit.ie/library. The DIT library currently stocks collections in excess of 170,000 books and other items and subscribes to approximately 1,800 journal titles. The libraries are networked operating the same computer system and share a common database. The entire holdings of the DIT libraries, their locations and current status are displayed on the OPAC (On-line Public Access Catalogue) in each centre. The OPAC may also be accessed via the Internet. The telnet address is: 'library.dit.ie' and the login is 'opac'. Registered students may borrow from any of the DIT libraries. Generally the DIT library provides study places, textbooks, monographs, course materials, reference works and journals both to support the courses offered and to facilitate research. Material is available in many formats, for example, books, videos, slides, tapes, microforms, CD-ROMs, computer disks, maps and music. Special information tools, indexing and abstracting journals, CD-ROM services, Internet access and on-line searching are available to varying degrees in the DIT libraries. Card-operated photocopiers are also available. Information not available within the DIT library may be requested via the inter-library loan service. Your library and information service will be a valuable resource for you during your time with DIT. Please feel free to visit any of the libraries and remember that the library staff are always willing to help you if you are unsure of where to find the information you want.

Computing

A computer Centre at DIT Aungier Street provides a central computing service to the Institute. All of the centres are linked in a Metropolitan Area Network (MAN) in which the Computer Centre forms the hub. This MAN integrates extensive PC-based and Fileserver-based Local Area Networks (LANs) at each site. The MAN also hosts an Institute-wide voicemail system. The Institute network (DITNET) is connected to the external world through HEANET, EUNET and Eircom's EIRPAC service providing a full range of worldwide Internet services. Staff and students have access to IBM-compatible PCs, Apple MACs, Fileservers and DEC minicomputer systems in an integrated network environment. They also have access to large numbers of stand-alone PCs. A wide range of academic computing applications is supported. Personal Internet Access from home for staff and students are available at a reduced rate from Eircom's TINET Service.

Restaurants

Each of the major Institute centres has restaurant facilities, which provide lunches and teas at reasonable prices as well as morning and afternoon snacks, in a comfortable surrounding.

Student Services

Careers and Appointments Service

The Careers and Appointments Service provides help to students in regard to employment opportunities and job vacancies, through individual and group guidance. Seminars are held throughout the academic year on the job market, application procedures and interview skills. Announcements from employers about job vacancies are notified to students, recent graduates and lecturers in the various Schools and Departments.

Counselling Service

The Institute provides a confidential Student Counselling Service, which is staffed by a team of Counselling Psychologists with an office in each of the centres of the Institute. This service aims to help students identify and solve difficulties that may interfere with their academic and personal development. The service offers a variety of workshops and training seminars in such areas as stress management, communication skills, etc. Students may make an appointment by telephoning the central office or by contacting the counsellor directly in one of the centres.

Chaplaincy

The Institute provides a Chaplaincy Service to help foster support and care among students and staff. The Chaplaincy is an inter-faith ecumenical service staffed by men and women of different Christian traditions. There is a chaplain available in each of the DIT centres and you are welcome to call at any time. The Chaplaincy is a professional confidential service. The service aims to provide support for the personal, social and spiritual lives of students and staff and to help build a sense of community in the Institute. Each Chaplain is available for spiritual guidance and support during times of bereavement and assistance in coping with the many challenges and transitions of college life. The Chaplaincy is also supported in the Community Links Programme of the Institute and offers opportunities for participation in many worthwhile community projects.

Personal Accident Insurance

All registered whole-time students of the Dublin Institute of Technology are covered by a Personal Accident Insurance Scheme. Cover is on a worldwide basis and operates 24 hours per day, 52 weeks of the year, and provides a wide range of benefits in respect of certified accidents, irrespective of whether the accident occurs on campus or elsewhere.

DIT Student Services Office

The DIT Student Services Office is located at the Institute headquarters at 30 Upper Pembroke Street, Dublin 2. It administers a variety of services in all of the DIT centres, and oversees the distribution and expenditure of the Student Services Fund. This fund is created from the registration fee paid by whole-time students, and is used to provide finance for welfare and medical services, clubs and societies, and the Students Union.

DIT Student Accommodation Service

The Student Accommodation Service is an information service provided in co-operation with the Students Union. A list is produced of available living accommodation, both self-catering and lodgings, including details of location, number of places, charges, etc. This list may be obtained from the Registration Office or the Students Union at each centre, or from the central Student Service Office.

DIT Student Assistance Fund

The Student Assistance Fund provides limited support for full-time DIT students who are experiencing temporary or unforeseen financial difficulties due to a major change of circumstances, by making grants of monies having regard to the individual's needs. This fund deals only with cases of extreme hardship, and applies to students who have already spent at least one term in the Institute. The Student Counsellor, Chaplains, Course Tutors or Student's Union Welfare Officers usually refer students to the fund.

The Child Care Support Fund

The Child Care Support Fund provides a small subsidy to a limited number of DIT students who are parents and who require assistance with the cost of child care during the academic year. As these students are usually entitled to some state benefits and allowances, this scheme is means-tested.

DIT Clubs and Societies

Over 150 Clubs and Societies operate throughout the Institute. They represent all of the major and minor sporting disciplines, as well as cultural and social activities and numerous course-related societies. Postgraduate students are encouraged to participate.

Health Services for DIT Students

Two Health Centres are available to DIT whole-time registered students on presentation of a current Student Card. The centres are located in Aungier Street for the South city DIT campuses (Aungier Street, Kevin Street, Adelaide Road, Chatham Row and Rathmines) and in Bolton Street for North city DIT campuses (Bolton Street, Cathal Brugha Street and Mountjoy Square). Nurses are available between the hours of 9.30 a.m. and 5.30 p.m. (Mon-Fri) to deal with routine health enquiries and advice. Consultation with a doctor in the Health Centre is available if required. Emergencies will be given priority. This service is free and totally confidential, and students may choose to see a male or a female doctor. Financial assistance may also be available for specialist consultations and treatment recommended by the doctors, and for routine dental and ophthalmic treatment. Some centres also have an on-site First Aid service during normal lecture hours. This service is provided in association with the Order of Malta Ambulance Service.

Students Union

This is the representative body for the students of the Institute. It promotes the social and organisational side of student life, including the clubs and societies, and represents the interests of students in the Institute. The Students Union operates a number of commercial services, including shops, photocopying, the issue of USIT International Student Identity Cards and travel tickets, and organises lunchtime concerts, discos and other social events. The Students Union provides travel and general information as well as financial and welfare advice. In this regard, the Students Union officers work closely with the Student Services Office, the Counselling Service and the Chaplains.

How to get to DIT

By Train

Irish Rail operates a comprehensive rail service linking many of the major towns and cities across Ireland, with a cross-border service linking with rail networks in Northern Ireland. Dublin city centre is served by two main railway stations, Connolly Station and Heuston Station, with frequent connecting services running from both stations. The DART (Dublin Area Rapid Transport) links the coast line of north county Dublin with south county Dublin, and it is a very convenient method of commuting around the city.

By Bus

Bus Eireann (The Irish Bus Service) operates frequent, daily bus routes connecting the capital to many towns and cities in Ireland. Dublin Bus provides numerous bus routes throughout the city with stops located close to each DIT college.

By Air

Frequent flights operate to and from Dublin International Airport, which is situated approximately 8 km from the city centre. Numerous flights connect Ireland with many European and international cities. A shuttle bus service connects the airport with the city centre.

By Ferry

Car ferry and passenger services operating from Dublin Port (close to the city centre) and Dun Laoghaire (about 8 kms from the city centre), sail to UK on a daily basis.

1. DIT Mountjoy Square, Dublin 1.
t: +353 1 402 3000
f: +353 1 402 4299

2. DIT Cathal Brugha Street, Dublin 1.
t: +353 1 402 3000
f: +353 1 402 4499

3. DIT Bolton Street, Dublin 1.
t: +353 1 402 3000
f: +353 1 402 3999

4. DIT Aungier Street, Dublin 2.
t: +353 1 402 3000
f: +353 1 402 3003

5. DIT Kevin Street, Dublin 8.
t: +353 1 402 3000
f: +353 1 402 4999

6. DIT Adelaide Road, Dublin 2.
t: +353 1 402 3000
f: +353 1 402 3555

7. DIT Rathmines Road, Dublin 6.
t: +353 1 402 3000
f: +353 1 402 3499

8. DIT Fitzwilliam House, 30 Upper Pembroke Street, Dublin 2.
t: +353 1 402 3000
f: +353 1 402 3399

9. DIT Chatham Row, Dublin 2
t: +353 1 402 3000

10. DIT Mount Street, Dublin 2
t: +353 1 402 3000
f: +353 1 6767243

Bolton St

3

1

Mountjoy Sq

Cathal Brugha St

2

O' Connell St

Marlborough St

Gardiner St

Henry St

Abbey St

Dame St

Georges St

Trinity College

Nassau St

Grafton St

Dawson St

Kildare St

Merrion Square

10

9

4

Aungier St

Baggot St

St Stephens Green

8

Fitzwilliam Square

Kevin St

5

Harcourt St

Leeson St

6

Grand Parade

Rathmines Rd

7

Research

Research activity has been significant across the Institute over the past 25 years, but has intensified in the last 5 years with the number of Masters and Doctoral students increasing threefold in that period. The Institute wishes to continue to develop its research base by recruiting postgraduate research students and postdoctoral researchers of the highest calibre, who will stimulate and engage in research throughout the Institute. Postgraduate research is recognised as an invaluable means of training students in a variety of skills through independent and collaborative work. Basic and transferable skills gained include: identifying and examining problems, project planning, experimental design, hypothesis testing, formulating results, drawing conclusions and reviewing the literature for guides to solutions. The guiding principle is to develop a comprehensive and critical understanding of the subject under examination in the area of study. Research and development projects can be carried out in the following broad areas in which the Institute has relevant expertise:

Business & Finance

Marketing

Logistics

Art & Design

Media & Media Technologies

Engineering

Information Technology

Humanities (Music & Drama)

Applied Economics / Social Science

Physics

Chemicals & Pharmaceuticals

Mathematics

Biotechnology & Food

Tourism & Hospitality

Environmental Health

The Built Environment

The development of research activities throughout the Institute is encouraged because of its strong role in helping to maintain the standard, quality and relevance of the undergraduate and postgraduate courses offered by DIT. Research, development and consultancy work is viewed as vital in underpinning the key teaching functions within the Institute. It is also a most fruitful way in which the Institute can contribute to the development of wealth creation and progress in Ireland and the European economy.

Interdisciplinary work and collaborative research projects with other educational, research, industry, commercial, professional or governmental organisations in Ireland, the European Union and further afield, are especially encouraged. The Institute has many international students carrying out research, which not only contributes to a diverse and intercultural student body, but also helps to ensure that research within the Institute reaches its full potential.

Postgraduate Research Awards Offered

The Institute offers three types of research programme, each leading to a different level of award for successful postgraduate research work.

Postgraduate Diploma (by Research) (PgDip(Res)) *

The Postgraduate Diploma requires the equivalent of one year, full-time research on a project at an advanced level in a given discipline. The candidate prepares a thesis, which is a substantial written report and may include other components such as models, design material, artistic composition, audiovisual or multi-media material, depending on the discipline and nature of the project. This programme encourages research of an applied nature and aims to act as a preliminary exposure to the methodology and practice of research. The Postgraduate Diploma is offered on a full-time or part-time basis.

Master of Philosophy Degree (MPhil) •

The MPhil Degree requires the equivalent of up to two years full-time research at an advanced level. A thesis is required which demonstrates independent thought and work by the student, a scholarly approach and a critical appreciation of the context and significance of the study being pursued. The written thesis may incorporate other components such as models, design material, artistic composition, audiovisual or multi-media material, depending on the discipline and nature of the project. The MPhil Degree is offered on a full-time or part-time basis.
•Scholarship funding available

Doctor of Philosophy Degree (PhD) •

The PhD Degree requires the equivalent of at least three years full-time independent and original research work. A thesis is required, which contributes significantly to the existing body of knowledge in the discipline, through new discoveries and interpretations. The thesis should show the student's critical ability and his/her capacity to undertake independent research at an advanced level. The thesis may incorporate models, design material, artistic composition, audiovisual or multi-media material, depending on the discipline and nature of the project. The PhD Degree is offered on a full-time or part-time basis.
• Scholarship funding available

Within the framework of these programmes, the Institute recognises the need for flexibility in defining the nature and scale of the academic research being pursued and in providing suitable pathways for advancement for motivated individuals with ability in research.

• All Degrees are awarded by the Dublin Institute of Technology.

Entry to Postgraduate Research Registers
Postgraduate Diploma Programme

In order to qualify for entry to the Postgraduate Diploma Register, an applicant must normally possess at least the equivalent of a pass primary degree in a relevant subject and demonstrate an aptitude for, and ability, to carry out research work at the appropriate level. Relevant work experience may also be taken into account.

MPhil Programme

To apply for direct entry to the MPhil Register, an applicant must possess the equivalent of at least a second class honours primary degree in a relevant subject or discipline area. Relevant work experience may also be taken into account.

PhD Programme

To apply for direct entry to the PhD Register an applicant must possess a masters degree by research in a related subject or discipline area.

In exceptional circumstances, an applicant who does not possess the minimum academic entry qualifications as stipulated above, may apply to register on a postgraduate programme. If the applicant demonstrates the aptitude and ability to carry out research at a postgraduate level he/she will be advised to contact the head of the relevant school /department to discuss their research experience and to find a prospective research supervisor within the Institute. This contact will allow at an early stage, a thorough discussion of the proposed research project, between the prospective postgraduate student and the prospective supervisor. It will also facilitate discussion of funding arrangements and the availability of laboratory and/or other resources required. If it is proposed that some, or all of the work, be carried out outside the Institute, details of the facilities and supervision available should be documented. Where an applicant has relevant research, industrial, professional or other practical experience, a meeting with the prospective supervisor and the head of school/department will help to evaluate prior work experience which may meet part of the requirements for entry. Through such discussion the applicant may also be assisted in identifying the appropriate postgraduate register for which to apply. Normally such an applicant may in the first instance be registered on the Postgraduate Diploma Register, or exceptionally on the MPhil Register.

Transfer Between Research Programmes

Where the level of research attainment or demonstrated academic ability of the postgraduate student and the nature of the research project are deemed appropriate, a student may apply to transfer his/her registration to that of a higher level of award. A postgraduate student having worked successfully for the equivalent of at least one half year full-time on the Postgraduate Diploma Register, may apply for transfer to the MPhil Register. A postgraduate student, having worked successfully for the equivalent of at least one year full-time on the MPhil Register and whose research is deemed to be of an appropriate standard, may apply for transfer to the PhD Register.

All applications for transfer to a higher register are reviewed by the Postgraduate Studies Committee of Academic Council. Transfer is conditional on the recommendation of the candidate's supervisor, the endorsement of the relevant head of school/department and the approval of a Transfer Examiner proposed by the supervisor and appointed by the Postgraduate Studies Committee. If permission to transfer is granted in advance of the applicant's submission of a thesis for a lower level of award, the research work done for this award may be incorporated retrospectively into the work required for the higher level award. Research work is normally carried out within the Institute. Where research work is interdisciplinary, or involves collaboration with external organisations, or is on a part-time basis, permission may be granted by the appropriate head of school/department for the work to be undertaken externally, subject to the approval of the Postgraduate Studies Committee.

Postdoctoral Programmes

Arnold F. Graves Scholar Programme

The Arnold F. Graves Scholar Programme has been established in the DIT to create postdoctoral positions for researchers of exceptional standard. Applications are invited from holders of a doctoral degree who are leading authors in their field and have taken part in important innovations or new developments in that field. Ideally, applicants should have some experience in the supervision of postgraduate research students. Emphasis has been placed on broad strategic research areas within the Institute's six Faculties.

- Arnold F. Graves scholars receive a tax free bursary.

Postdoctoral Fellowships

A scheme to fund Postdoctoral Fellowships within the Institute was initiated in 1995, with the aim of further enhancing the standard of the research work in key areas in the institute. Advertisements for Post-Doctoral Fellowships are occasionally placed in the national press.

Application For Entry To Research Programmes

To apply for entry to any postgraduate research programme, the applicant should complete and return Form PGR 1 (A) Application for Registration for Postgraduate Study. The applicant should also complete the relevant section of Form PGR1 (B) Reference on Behalf of an Applicant for Admission to Postgraduate Study, and forward a copy to two referees of appropriate academic and/or professional standing. As the application cannot be processed until these support references are received, the referees are required to promptly complete and forward them in confidence to the Office of Graduate Studies and Research.

To apply for entry to any postgraduate scholarship programme, the applicant must first complete and return the form: Application for Funded Postgraduate Research Programme. Applicants will then be required to complete and return forms PGR 1(A) and PGR 1(B) as requested.

All applicants must enclose, with their application, a complete transcript of their academic record together with copies of their degree, diploma and certificate parchments (applicants who have not completed their degree should enclose a copy of 2nd and/or 3rd year exam results).

- Applicants for the Arnold F. Graves Scholar Programme should contact the Office of Graduate Studies and Research regarding entry requirements and application forms.

-- For further information regarding any of the research programmes, including application, please contact:
Dr Janet Carton, Co-ordinator of Postgraduate Research and/or
Mr. Bob Kavanagh, Head of Graduate Studies and Research
DIT Fitzwilliam House
30 Upper Pembroke Street
Dublin 2
t: +353 1 402 3400
f: +353 1 402 3393
e: postgraduate@dit.ie
w: www.dit.ie/admin/graduate

Processing Research Applications

The Postgraduate Studies Committee of Academic Council considers all applications for entry to postgraduate study by research. This committee liaises with the appropriate head of school /department in relation to each individual applicant, proposed area(s) of research, internal resources and expertise, and the appointment of the research supervisor. The committee may also make contact with the candidate or with referees to clarify any aspect of the application. The Postgraduate Studies Committee only approves the application after this consultation. The Office of Graduate Studies and Research notifies the applicant of the committee's decision. The applicant must register at the Office of Graduate Studies and Research on an appointed date after which a postgraduate student card is issued. Registration must be renewed annually.

Quality Assurance of Research Programmes

The Postgraduate Studies Committee of Academic Council has responsibility for overseeing the application of the Regulations for Postgraduate Study by Research in relation to all postgraduate research programmes. Under these regulations, the supervisor and the postgraduate student are required to:

- agree on a programme for the proposed research and on the nature and extent of guidance required
- agree a regular schedule of meetings
- discuss significant problems and potential difficulties
- each make six-monthly progress reports on the work to the Postgraduate Studies Committee
- agree on a decision to apply for transfer to a higher level register
- agree on a decision to transfer to a lower level register
- agree on a date for submission of the thesis

The postgraduate student is required:

- to maintain progress on the work schedule in consultation with the supervisor
- to present written material on the work as required by the supervisor
- to give three months notice of intention to submit an MPhil or PhD thesis to the Postgraduate Studies Committee.

Postgraduate Research Fees

Full-time students

Annual fee €1,415.76 (IR£1,115) plus capitation •
For all students on Scholarship grants the annual and capitation fees are paid by the programmes.

Note 1: Once a student is outside the grant period they are immediately required to pay the annual fee and capitation fee.

Part-time students

Annual fee €740.26 (IR£583) including capitation •
Appropriate fees must be paid by students to be deemed registered by the Institute. The Postgraduate Studies Committee has the discretionary powers to reduce or waive all or part of these fees. Any student who fails to pay the appropriate fees will be removed from the Institute's register of postgraduate students unless a special extension or full or part waiver of fees is agreed by the Postgraduate Studies Committee.

Note 2: A student must be duly registered with the Institute when submitting their thesis for examination.

• Fees indicated as per academic year 2000/2001. Please enquire as to fees set for academic year 2001/2002.

1. Technological Sector Research

The Postgraduate R & D Skills Programme was initiated in 2000 and is funded under the National Development Plan (2000-2006). The aim of this programme is to increase the supply of graduates with the necessary skills to provide the advice and technical support which industry requires to become and remain competitive. This will be achieved through the provision of research and development training for graduates, for the specific purpose of promoting development capability and thus advancing Institute/Industry links. These scholarships are generally granted to predefined masters research projects proposed by DIT staff members and appropriately qualified students are sought to fill available places on the programme. A number of places on the scheme are also available annually to fund students transferring from the Masters Programme to the Doctoral Programme. Under the Postgraduate R&D Skills Programme, students are provided with a maintenance allowance of €10,157.90 (IR£8,000) per annum and an allowance towards their research and conference travel expenses. Fees are also covered by the programme.

2. DIT Scholarship Programme

The DIT Postgraduate Scholarship Scheme was initiated in 1994. The scheme is funded from Institute resources and is aimed at assisting participants while increasing the number of postgraduate students in the Institute. These scholarships are generally granted to predefined masters research projects proposed by DIT staff members and appropriately qualified students are sought to fill available places on the programme. A number of places on the scheme are also available annually to fund students transferring from the Masters Programme to the Doctoral Programme. Together with the schemes mentioned in this section, the Scholarship Programme plays a major role in fostering the research ethos across the Institute. Under this programme students are provided with a maintenance allowance of €10,157.90 (IR£8,000) per annum and an allowance towards their research and conference travel expenses. Fees are also covered by the programme. Calls for

applications for scholarships under this programme and the Technological Sector Research Programme are made via advertisements in the national press, DIT website and at national and international recruitment fairs.

Enquiries can however, be made at any time during the year to:

Mr Bob Kavanagh
Head of Graduate Studies and Research
DIT Fitzwilliam House
30 Upper Pembroke Street, Dublin 2
t: +353 1 402 3400
f: +353 1 402 3393

3. Higher Education Grants

A student who holds a Higher Education Grant when completing his/her primary degree and who is admitted to a postgraduate programme conducted by the Institute, may be eligible to apply for a continuation of the Higher Education Grant. This can be applied for from the Local Authority where his/her parents or guardians normally reside. Information on eligibility conditions (including closing date) and application forms are available from the appropriate Local Authority (County Council or Corporation). A mature student (23 years on 1st January of the year of entry to a programme) admitted to a postgraduate programme conducted by the Institute, may be eligible to apply for a Higher Education Grant from the Local Authority where his/her parents or guardians normally reside. Information on eligibility conditions (including closing date) and application forms are available from the appropriate Local Authority (County Council or Corporation).

4. VEC Scholarships

A student admitted to a postgraduate programme conducted by the Institute may be eligible to apply to continue to benefit from a VEC Scholarship from the Vocational Education Committee where his/her parents or guardians normally reside. Information on eligibility conditions (including closing date) and application forms are available from the appropriate Vocational Education Committee.

5. Irish American Partnership Scholarship

Scholarships funded by the Irish American Partnership and Irish industry in collaboration with Forbairt provide grants of €8,888.17 (IR£7,000) over two years for masters degree research work in certain areas. Application forms and details may be obtained from the

Irish American Partnership
Tara House
32 Lower Baggot Street
Dublin 2

6. Forbairt Grants for Basic Research

These grants may be available to applicants with a good honours degree in Engineering or Science who wish to work towards a doctoral degree in a basic research area. Application forms may be obtained from the address below and must be submitted by 1st July each year. Forbairt, Glasnevin, Dublin 9.

7. Sponsorship by Employers

Employers may sponsor an employee to pursue postgraduate studies by research within the Institute, or to attend a postgraduate course. Arrangements are made between the employer, the employee and the contact person in the relevant School or Development Centre of the Institute. The work may be related to a problem identified by an employer as being of particular interest to his/her firm and the expertise and facilities of the Institute may be of particular assistance in its investigation and solution.

8. Other Funding Sources

Advertisements for studentships on research projects are generally made in the national press but enquiries may be made at any time during the year to:

Mr Bob Kavanagh
Head of Graduate Studies and Research
DIT Fitzwilliam House
30 Upper Pembroke Street
Dublin 2
t: +353 1 402 3400
f: +352 1 402 3393

Many international students studying in Ireland are sponsored by their own governments or through other international scholarship programmes. In most cases, applications should be made through the Ministry of Education in the student's home country. UK nationals can also contact the Irish embassy in London for information. The Irish Council for International Students administers Study Fellowships under the Irish Aid Programmes for students from priority aid countries. Please refer to *www.icos.irl.ie* for further information. International students are also advised to refer to the web site of the International Education Board Ireland *www.educationireland.ie* which gives some information on scholarship sources.

9. Arnold F. Graves Scholar Programme

Arnold F. Graves Scholars are entitled to a tax-free bursary normally between €19,046.07-€22,855.29 (IR£15,000-IR£18,000) per annum.

10. Postdoctoral Fellowships

Enquiries about Postdoctoral Fellowship positions and associated funding may be made to the Office of Graduate Studies and Research.

Information and Application Forms

For information and application forms for entry to postgraduate courses, please contact:

Office of Graduate Studies and Research

DIT Fitzwilliam House

30 Upper Pembroke Street

Dublin 2

t: +353 1 402 3400

f: +353 1 402 3393

e: postgraduate@dit.ie

w: http://www.dit.ie/admin/graduate

Applicants will be required to supply copies of their qualifications parchments and may be required to submit a complete record of their academic record. If the award parchment does not state the overall grade level of the award, a letter stating the grade received must be supplied from the awarding body.

Closing date for application

If not otherwise specified, the closing date for applications for postgraduate courses will be 27th April 2001. Late applications may be considered.

Postgraduate Courses Fees

Annual fees for DIT postgraduate programmes are made up of two components relating to (i) capitation/student services/examination fees and (ii) tuition fees. In some cases students may also have to pay appropriate additional fees to a professional or other external body or Institute involved in the awards relating to the programme. The current fee levels are as follows:

(1) Capitation Fees

There is a capitation fee charged to all students. The capitation fee for all full-time students for the academic year 2000/2001 was €370.76 (IR£292). This figure is likely to be increased for the academic year 2001/2002. The fees for full-time courses quoted in this prospectus do not include capitation. The capitation fee for part-time students for the academic year 2000/2001 was €31.74 (IR£25). . The fees for part-time courses quoted in this prospectus include capitation.

(2) Course Fees 2000/2001

The fees listed below were for the academic year 2000/2001. Please enquire as to fees for the year 2001/2002.

Acceptance Fee

A condition of accepting an offer of a place on a postgraduate taught course in the DIT is the payment of an acceptance fee. This was €253.95 (IR£200) for the academic year 2000/2001. Students are advised that the acceptance fee is non-refundable, but is taken into account when fee giros are issued for registration.

Courses Fees 2000/2001

M552 €1,237.99 (IR£975) per year incl. capitation
FT361 •
A354 €1,047.53 (IR£825) per year incl. capitation
FT603 •
DT305 €2,031.58 (IR£1,600) plus capitation
DT320 €2,666.45 (IR£2,100) plus capitation
DT319 €2,666.45 (IR£2,100) plus capitation
A318 €793.59 (IR£625) per year incl. capitation
FT314 €1,460.20 (IR£1,150) plus capitation
FT118 €3,174.35 (IR£2,500) plus capitation
FT119 €3,174.35 (IR£2,500) plus capitation
B707 €1,618.92 (IR£1,275) per year incl. capitation
B714 €2,539.43 (IR£2,000) per year for years 1 & 2 incl. capitation
      €1,269.74 (IR£1,000) for year 3 incl. capitation
FT548 €1,980.79 (IR£1,560) plus capitation
FT549 €1,980.79 (IR£1,560) plus capitation
FT550 €1,980.79 (IR£1,560) plus capitation
FT551 €1,980.79 (IR£1,560) plus capitation
DT364•
DT510 €1,413.22 (IR£1,113) plus capitation
DT318 €1,980.79 (IR£1,560) plus capitation
A357 €5,428.13 (IR£4,275) per year incl. capitation
M587 €1,396.71 (IR£1,100) per year incl. capitation
FT120 •
B773 €1,206.25 (IR£950) per year incl. capitation
FT126 •
B774 €1,206.25 (IR£950) per year incl. capitation
FT230 •

FT232/K218 •• €3,428.29 (IR£2,700) plus capitation: full-time
              €2,539.48 (IR£2,000) per year incl. capitation: part-time
FT233/K319 €3,301.32 (IR£2,600) plus capitation: full-time
            €1,707.80 (IR£1,345) per year, incl. capitation:
                                  part-time 2 years
            €869.77   (IR£685)   per year, incl. capitation:
                                  part-time 4-years
FT408/C408 €2,971.19 (IR£2,340) plus capitation: full-time
            €1,517.34 (IR£1,195) per year incl. capitation: part-time
FT409/C409 €4,355.20 (IR£3,430) plus capitation: full-time
            €2,209.34 (IR£1,740) per year incl. capitation: part-time
FT494/C494 €3,301.32 (IR£2,600) plus capitation: full-time
            €1,682.40 (IR£1,325) per year incl. capitation: part-time

Please note that the MSc in Food Safety Management (subject to validation) and the programmes in Teaching & Learning are new courses. Fees to be decided.

• A fee of €876.12 (IR£690) (including capitation) was charged to EU students for these courses for 2000/2001 under the Graduate Skills Conversion Programme. Please enquire as to the arrangements for the academic year 2001/2002.

•• In addition, all students are charged (by the University of Dublin) a €63.49 (IR£50) sports and recreation facilities levy.

Non EU Fees: full-time: €6,685.17 (IR£5,265) plus capitation
             part-time: €3,343.22 (IR£2,633) per year incl. capitation

Different non-EU fees apply to the MSc in Molecular Pathology (FT232/K218):

             full-time: €9,611.92 (IR£7,570) plus capitation
             part-time: €7,008.95 (IR£5,520) per year incl. capitation

Award	Credit	Normal Period of Study	
		Full-time	Part-time
Postgraduate Certificate -PgC	30	1 Semester	1 Academic year
Postgraduate Diploma - PgD	60	1 Academic Year	2 Academic Years
Masters	90	1 Calendar Year	2 Calendar Years

Taught Course Postgraduate Awards

The Institute is gradually moving towards a credit-based system using the European Credit Transfer System (ECTS). The majority of DIT taught course postgraduate awards fit within a general model of awards. In this system a PgD is 30 credits more than the PgC, and the Masters is 30 credits more than a PgD (normally a 30-credit dissertation). The Postgraduate Certificate will only be awarded in some courses and most frequently in part-time programmes. Students who elect to do a Masters will not normally receive the Postgraduate Diploma. Students who graduate with a Postgraduate Diploma may at a later date, apply for admission to the Masters.

Postgraduate Courses Funding

1. Higher Education Grants

A student who holds a Higher Education Grant when completing his/her primary degree, and who is admitted to a postgraduate programme conducted by the Institute, may be eligible to apply for a continuation of the Higher Education Grant. This can be applied for from the Local Authority where his/her parents or guardians normally reside. Information on eligibility conditions (including closing date) and application forms are available from the appropriate Local Authority (County Council or Corporation). A mature student (23 years on 1st January of the year of entry to a programme) admitted to a postgraduate

programme conducted by the Institute, may be eligible to apply for a Higher Education Grant from the Local Authority where his/her parents or guardians normally reside. Information on eligibility conditions (including closing date) and application forms are available from the appropriate Local Authority (County Council or Corporation).

2. VEC Scholarships

A student admitted to a postgraduate programme conducted by the Institute may be eligible to apply to continue to benefit from a VEC Scholarship from the Vocational Education Committee where his/her parents or guardians normally reside. Information on eligibility conditions (including closing date) and application forms are available from the appropriate Vocational Education Committee.

3. Other Sources of Funding

Many international students studying in Ireland are sponsored by their own government or through other international scholarship programmes. In most cases applications should be made through the Ministry of Education in the student's home country. In the case of UK nationals only, they should also contact the Irish Embassy in London for information. The Irish Council for International Students administers Study Fellowships under the Irish Aid Programmes for students from Priority Aid Countries. Please refer to www.icos.irl.ie for further information. International students should visit the web site of the International Education Board Ireland, www.educationireland.ie, which gives information on scholarship sources.

Entry Requirements

The Institute is happy to consider applications from EU and non-EU nationals. These applicants must present suitable qualifications that the Institute judges to be equivalent to the minimum entry standard set out for postgraduate courses and certified translations in English of qualifications and/or examination results must be submitted with each application. No application will be accepted from overseas applicants for admission to part-time day or evening courses unless they are resident in the country.

Visa Requirements

It will be necessary for non-EU nationals to comply with Irish immigration requirements. In addition applicants should make themselves aware of whether a study visa is required. Further information is available from the:

Department of Foreign Affairs
72-76 St Stephen's Green
Dublin 2
t: +353 1 478 0822

General Information

For information on living costs in Dublin and other useful tips, prospective applicants should check the DIT Web site at www.dit.ie/international. Useful information about studying in Ireland is also provided by the International Education Board Ireland at www.educationireland.ie.

English Proficiency Requirements

Most studies in the Institute are carried out in English. Therefore, international applicants whose native language is not English must display an adequate competence in spoken and written English. Achievement of the following marks would indicate adequate proficiency:

TOEFL	550+ (Paper Test)
TOEFL	213+ (Computer Test)
IELTS	6.0 +
GCE O Level English Language	Grade C or higher
GCSE English	Grade C or higher
Cambridge Certificate of Proficiency in English	Grade C or higher
Cambridge University Certificate in Advanced English	Grade A
NEAB • test in English for speakers of other languages	Pass
Warwick English Language Test	Pass

• (Northern Examinations & Assessment Board - Formerly JMB)

Such applicants should provide a transcript of the examination results indicating their proficiency in English, when they submit an application to pursue postgraduate studies in the Institute. The Institute may further require such applicants to demonstrate their level of proficiency by oral and/or written tests.

Non Semester Courses

Term 1

September 2001	Monday 3	Commencement of session. Interviews and enrolments for part-time and evening courses commence.
	Wednesday 5	Commencement of part-time courses in Music and Drama
	Monday 17	First year courses commence with the induction programme
		Second and subsequent years of all whole-time courses commence
		Part-time day and evening courses commence
December 2001	Friday 21	Final class meetings of first term
	Saturday 22	Final class meetings for part-time and evening courses in Music and Drama

Term 2

January 2002	Monday 14	Classes resume
March 2002	Friday 22	Final class meetings of second term

Term 3

April 2002	Monday 8	Classes resume
May 2002	Friday 3	Final class meetings of third term
	Tuesday 7	Examinations commence

Semesterised Courses

Semester 1

September 2001	Wednesday 12	1st year students induction programme
	Monday 17	Teaching semester commences
January 2002	Monday 14	Study/revision week
	Monday 21	Examinations commence

Semester 2

January 2002	Monday 28	Teaching semester commences
May 2002	Friday 17	Final class meetings of semester
	Monday 20	Study/revision week
	Monday 27	Examinations commence

Classes are not scheduled on public holidays during the session (viz. 29th October, 18th March, 6th May, 3rd June). Classes are not scheduled from Monday 24th December to Friday 11th January inclusive or from Monday 25th March to Friday 5th April inclusive.

Faculty of Applied Arts

School of Media
School of Languages
Conservatory of Music and Drama
School of Art, Design and Printing
School of Social Science and Legal Studies

Introduction

I am pleased to welcome you as a prospective postgraduate student to the Faculty of Applied Arts. The Faculty of Applied Arts is the Centre for the Visual, Performing and Media Arts in Ireland and an acknowledged leader in the Humanities and Social Sciences, offering education and research at undergraduate and postgraduate level. We have a solid reputation amongst students and the public in pioneering and developing innovative, interdisciplinary and professional-level programmes to meet the changing needs of Irish society. Our philosophy is to develop a culture of critical and reflective thinking, informed by experience and/or appreciation of creative and professional practice and tomorrow's technologies. We emphasize a real integration between theory and practice. We teach bodies of knowledge, ways of working, histories of disciplines, theoretical understanding, uses of material/equipment and skills. Students are encouraged to achieve the highest artistic and intellectual standard possible and to consider a wide range of career possibilities in traditional and emerging fields in Irish and European social, economic and public life.

Academic Programmes and Teaching

Almost 2500 students are studying:
- Design
- Digital Arts, Media and Music
- Journalism and Publishing
- Languages
- Social Science and Legal Studies
- Visual, Performing and Media Arts

Our graduates are highly sought after and successfully employed at all levels within the public and private sector. Over the years, graduates have won prizes at both national and international level.

There are about 275 permanent academic members of staff and over 350 visiting scholars, professionals and practitioners. Several staff are members of Aosdana, the state-sponsored Irish Academy of Creative Artists. People with professional/practitioner experience, a theoretical/critical understanding of their discipline/knowledge domain and a commitment to teaching and initiating research and scholarly activities are encouraged to apply or associate themselves with the Faculty. Facilities include art and design studios, multimedia, computer graphics and music technology laboratories, state-of-the-art film and television studios, dedicated journalism newsrooms and radio broadcasting facilities. There is a Multimedia Language Lab, a Black Box Theatre and other performance facilities. In addition, there are several research and development centres/units and specialised laboratories and training facilities: the Digital Media Centre, the Centre for Social and Educational Research, the Media Production Unit, the Photography and Digital Imaging Studio, the Music Technology Centre, the National Centre for the Education and Training for the Printing and Graphic Communications Industry and the Telematics Facility.

Post-Graduate and Masters Programmes

The Faculty of Applied Arts is a leader in Ireland of masters level education in the media and the digital arts. Currently, it offers postgraduate diplomas and masters degrees in journalism, film, interactive media, public relations, media studies, music technology and design in digital media. Students attending these programmes come together for a one-week programme of lectures, workshops, seminars and discussions, organised around key themes within the rapidly expanding area of media and the cultural industries. A Postgraduate Diploma/Master degree in Professional Design Practice will be offered in autumn 2002.

DIT is also the leader in postgraduate legal education. Currently the Department of Legal Studies offers a Postgraduate Diploma in Legal Studies. This full-time one-year course provides an alternative career path into the legal profession. It also is useful for students contemplating a career in which law plays an important part. A Master degree will be offered in 2002.

Masters degrees are also being developed in Creative Arts Therapies, Criminology and Media Management. These are all exciting areas, which are experiencing tremendous change while offering many new opportunities for graduates. All programmes are committed to linking creative and/or professional practice with critical theory and new technology.

Postgraduate Studies by Research

The Faculty of Applied Arts offers postgraduate studies by research leading to an MPhil or PhD in any of our areas of expertise (see below). We are specially keen to attract postgraduate research projects that extend and develop professional practice in the visual and performing arts and media, and that encourage new opportunities linking creativity with technology (e.g. digital arts, interactive media and music technology). A strong emphasis is placed on practice-based and interdisciplinary research. Postgraduate scholarships with research support modules and seminars are available. For further information contact: Artsresearch@dit.ie.

Faculty Research and Scholarly Activity

Research and scholarly activity play a central and critical role within the Faculty of Applied Arts. It is a major foundation to all our teaching and learning. A strong emphasis is placed on reflective and critical intellectual inquiry resulting in traditional scholarly publications, creative practice (e.g. visual and creative arts, exhibition and performance, composition, multimedia, film and broadcasting, journalism, etc.) and other practice-based research.

All staff are encouraged to be engaged in teaching, and research and scholarly activity. Our expertise is closely aligned to our teaching strengths and strategic direction which includes the following;

- Design
- Digital Arts, Media and Music/Creative Technologies
- Journalism
- Languages, Translation and Intercultural Studies
- Media, Popular Culture and the Cultural Industries
- Socio-economic and Social-legal Studies
- Visual, Performing and Media Arts Practice.

The Faculty of Applied Arts encourages the development of research and scholarly activity through collaborative and individual projects, seminars, research groups and centres. Research funds for staff and postgraduates are available via the Faculty of the Applied Arts Research Committee.

Staff edit and publish the Irish Communications Review (www.icr.dit.ie), the Irish Journal of Applied Social Studies and the Journal of Family Law. There is a growing community of postgraduate students pursuing MPhil and PhD research, and several Research Fellows.

The Faculty has successfully taken part in a wide range of European Research, Development, Education and Training projects under contracts with the EU Telematics Applications, ESPRIT, MEDIA2, Socrates, TEMPUS, TACIS, Youth for Europe and ADAPT Programmes. The Faculty of Applied Arts has a particular history of involvement in EU projects that link creativity with advanced digital technology in partnership with academic institutions, industrial companies, design and production groups.

Current activities within the EU Framework 5 Information Society Technologies research programme include the CIRCUS Working Group and the LEDA project, which is developing new tools and methods to support advanced distance learning in digital media.

The Faculty is also a member of ELIA (European League of Institutes of the Arts), ICFAD (International Council of Fine Arts Deans), the EJTA (European Journalist Training Association), PIRA (Printing Industry Research Association) and GATF (Graphic Arts Technical Foundation).

The Centre for the Visual, Performing and Media Arts in Ireland
The Conservatory of Music and Drama is the largest provider of performing arts education in the state, offering a comprehensive programme of education in music (classical, contemporary and Irish traditional), drama and research. Research interests include performance studies, composition, musicology, music and drama education, music technology, music therapy and conducting. There are several postgraduate students and a postdoctoral research fellow. Contact: Conservatory@dit.ie

The School of Art, Design and Printing is quickly gaining a reputation as a leading international advisor to the design industry. Strong emphasis is placed on the importance of the crafts and skills of fine art creativity. The Department of Printing is the National Centre for Education and Training for the Print and Graphic Reproduction industry. The research interests include: design for ageing; innovative techniques for printmaking; interactive design; photo CD in pre-print applications; furniture design and techniques and pre-press technologies. There are several postgraduate students and a postdoctoral research fellow. Contact: ArtDesignPrinting@dit.ie

The School of Media is a well-established and recognised centre of excellence in media arts (video, audio, broadcasting, film, multimedia), journalism, public relations, photography, interactive media and the management of the new information and communications technologies. Research interests include: media policy and institutions; state regulation, freedom of information and censorship; minority language broadcasting, gender, visualisation and multimedia, narrative theory,

new media technologies, political economy of the media/cultural industries, contemporary photographic practice and critical theory, including digital imaging, and media ethics. There are several postgraduate students. Contact: Media@dit.ie.

The Humanities and Social Sciences at DIT
The School of Languages is the largest centre of its kind in Ireland, offering French, German, Spanish, Italian, Russian, Irish, Arabic and English as a Foreign Language. Research interests include: languages for specialist purposes, foreign language courseware and syllabus design, second language acquisition, translation theory and methodology, terminology, lexical acquisition and area studies. Other active areas of research include intercultural studies, the various European literatures, critical and discourse theory and Irish culture. Contact: languages@dit.ie

The School of Social Science and Legal Studies provides unique educational and research programmes in law, social sciences and socio-legal studies: early childhood education; social care; Irish, European and international law; child and family law and criminology. Research interests include: early childhood services; training and cross-cultural issues; changing families and impact on children; family law; children's rights and victimisation; traveller issues; juvenile prostitution; staff role in residential care; therapeutic interventions; multi-media and education; European and comparative law; social, family and welfare law; crime and society; critical legal studies; law and media. There is a very active research culture within the School with many postgraduate students. The Centre for Social and Educational Research (CSER) is directly affiliated to the School. Contact: Socialsciences@dit.ie or Law@dit.ie

Research and Development Centres in the Faculty of Applied Arts

The Centre for Social and Educational Research, which incorporates the Early Childhood Research Unit, has established a national and European reputation for research and is co-ordinating a number of path-breaking projects in early education and childcare and youth studies, many with European partners. Through its research, the Centre has developed links with a range of voluntary, statutory and private organisations. There are several postgraduate research students and senior researchers. Further information: Dr Lorna Ryan, Manager, *t:* 353 1 402 3491 *e:* cser@dit.ie

The Digital Media Centre is at the forefront of developments in interactive media, virtual reality, e-learning and 3D imaging in Ireland and is recognised by Cisco, the world-wide leading company in networking for the Internet, as a centre of excellence. It is rapidly developing an extensive research portfolio: virtual environments for entertainment, education and culture; new forms of open and distance learning for education and industry; the application of broadband systems to deliver even richer content; concepts of interactivity and interaction design. The DMC has established close relationships with industry and the public sector, and has a well-established record of support for small new media companies. It recently joined the Cisco Networking Academies Programme. There are several postgraduate research students and senior researchers. Contact: Mr Charlie Pritchard, Digital Media Centre, *t:* +353 1 402 3047, *e:* pritchard@dit.ie, http://www.dmc.dit.ie

The Department of Printing, School of Art, Design and Printing is recognised as the National Centre for the Education and Training for the Printing and Graphic Communications Industry. There is an increasing emphasis on investigating and developing new techniques and processes. Contact: Mr Brian Kennedy, School of Art, Design and Printing, *t:* +353 1 402-3630.

The Media Production Unit offers a range of professional level training programmes in association with the National Film and Television School (UK) and RTÉ. A co-production portfolio is being actively developed in association with young film and programme makers, community groups and others. The Unit maintains a strong commitment to provide high-level training and upskilling experience for recent graduates and young professionals. Contact: Ms Grainne O' Rourke, Manager, *t:* +353 1 402 3108 *e:* mediaproduct@dit.ie

The Music Technology Centre supports the needs of postgraduate and undergraduate students of music technology. In addition to developing a research profile,: the technology in music education, and the sound and music representation and algorithms groups are housed here. Research projects are being undertaken with colleagues in Ireland and across Europe, with funding from the EU. The Centre works closely with the Digital Media Centre. There are several postgraduate research students. Contact: Dr Paul Mc Gettrick, Conservatory of Music and Drama, *t:* +353 1 402 3500 *e:* paul.mcgettrick@dit.ie

The Photography and Digital Imaging Studio is located at Meeting House Square, Temple Bar, Dublin 2, in the heart of Dublin's cultural quarter. In addition to providing facilities for students within the Faculty who are specialising in photography and digital imaging, the Centre will be developing strong links with industry through short courses and consultancy services. Contact: Ms Grainne O' Rourke, Manager, *t:* +353 1 402 3108, *e:* mediaproduct@dit.ie

The Telematics Facility is the Dublin Institute of Technology's gateway to the wider international academic world. Originally set up as part of the African Virtual University, a World Bank funded project, its function was to transmit live lectures via satellite to Africa. Operating under the Faculty of Applied Arts, the facility provides audio visual services across DIT as well as ISDN links to other academic Institutes for research discussions, seminars, lectures and conferences. Contact: Mr Roy Moore, *t:* +353 1 402 3049, *e:* Roy.Moore@dit.ie, http://www.dit.ie/aa/telematics/

As a society, we face profound social, cultural and technological changes in the 21st century. To meet these challenges, society in the future will need to create new knowledge and new ways of understanding it. The Faculty of Applied Arts at DIT, offering a unique range of educational and research programmes across the arts, humanities and social sciences, is particularly well placed to be a leader in the 'learning society' of the 21st century. Join us.

Dr Ellen Hazelkorn
Director
Faculty of Applied Arts
e: facultyarts@dit.ie.

If you require further information about any of the taught postgraduate/Masters programmes, please feel free to contact either the course leader or School/Department indicated on the appropriate page. Further information is also available on the Faculty website: www.dit.ie/aa.

This course addresses the needs of a growing and dynamic design and publishing industry by meeting the educational and training needs for creative, technical and managerial personnel for both conventional print and electronic media. The course trains people capable of combining practical/creative expertise with critical appraisal of visual communication. Creative concept development featuring the effective use of visual images and text, the identification and selection of appropriate delivery options and media liaison are necessary skills for professionals in this area and the course develops these skills.

Course Outline
- Professional Practice
- Digital Imaging
- Electronic Publishing/Multimedia
- Pre-Press and Print Processes
- Project Management
- Contextual Studies
- Design and Concept Development
- Media Law
- Research Methodology
- Critical Theory
- Images and Vision
- Media Philosophy
- Representation
- Forum
- Major Project

Duration
The course is currently presented as a two year part-time evening course. The course commences in early October each year.

Location
Photography and Digital Imaging Centre, Temple Bar, Dublin 2 and on other DIT sites.

Assessment

Assessment includes a major project and dissertation, essays, case studies, seminar presentation, production tasks and projects.

Award

Graduates of the course are eligible for the award of MA in Design in Digital Media of the Dublin Institute of Technology.

Entry Requirements

Applicants are required to have an Honours Degree (2.2 grade or higher) in a relevant discipline corresponding to the skills and disciplines working in the digital design and publishing industry including the visual arts, marketing, design and management, print and electronic publishing.

Timetable and Amount of Hours

Attendance is required two evenings per week for three hours each evening. In addition to this, there will be field trips, weekend seminars and special workshops. The total number of learning hours for the two year part-time programme is 1,800 hours. This is made up of 345 taught hours and 1,455 independent learning hours.

Career Opportunities

Career opportunities can be found in the areas of marketing, advertising, publishing and the communication industry, media and promotion co-ordinators, marketing, public relations and related training and education.

Closing Date for Applications

27th April 2001

Proposed Interview Date

Selection by interview may apply and the decision to hold interviews will be at the discretion of the selection panel.

Offer Date

Offers are normally made in June of each year.

Further Information

Mr Michael Crotty
School of Art, Design and Printing
DIT Mountjoy Square
Dublin 1
t: +353 1 402 4243
f: 353 1 402 4297
e: mlcrotty@eircom.net or: ArtDesignPrinting@dit.ie

The MA in interactive media is a taught programme, which is designed to provide graduates with an opportunity to examine critically and acquire an in-depth understanding of the contemporary development and applications of Interactive Media. The course is primarily a studio-based programme of studies conducted within the context of applied research. While on the course students will examine professional practices within the framework of the critical debates and applied research and production strands. There is particular emphasis on the use of the Major Production Project and Dissertation as a vehicle for challenging, debating and testing ideas that are dealt with throughout the course. In general, students have come from areas such as Graphic Design, Computer Science, Fine Art, Music, Journalism, Video Production and the Humanities. The average age of students is 27. Many have returned to full-time education from industry to retrain or seek new positions within the IT and Multimedia sectors.

Syllabus/Content/Course Outline
Semester One
This is the more formally taught and prescriptive element of the course. We will emphasize the development of your production, academic research and writing skills. This will lay the groundwork for the following semester and particularly your Major Project and Dissertation. You will have an intensive schedule of lectures, seminars, workshops and tutorials throughout the semester.

Semester Two
As you progress beyond Semester One, we encourage a greater degree of individual self-learning. This is exemplified and encouraged by the use of student-initiated projects, supported by 'learning contracts' and the preparation of the Dissertation and Major Project through an intensive tutorial system. By the end of the semester, you will have submitted your Major Production Project.

Research
In this final stage of the course, you will complete your Major Project Critical Evaluation Paper and Dissertation. These activities are based primarily on independent study.

Joint Activities
New Media Forum
A Forum will be organised for all students enrolled on various Masters/Postgraduate Programmes in the Faculty. The Forum provides an opportunity to contextualise and review a wide range of media issues through specialist/guest lectures, workshops, visits by representatives of industry and an exhibition of student work.

Presentations and Seminars
You will be encouraged and facilitated to make a number of formal presentations throughout the year. These exercises are intended to provide you with an opportunity to exchange and debate ideas, and to develop your presentation techniques.

Duration
The course is designed to operate across five working days for 48 weeks. You are expected to complement timetable-scheduled learning with private study and self-learning. This is normally expected to be at least 35 hours each week.

Location
DIT Aungier Street

Entry Requirements
Honours degree (2.2 grade or higher) in any discipline relevant to media design, production, computer science and management. Selection is by qualification and interview.

Closing Date for Applications
27th April 2001

Award
Graduates of the course are eligible for the award of MA in Interactive Media of the Dublin Institute of Technology.

Career Opportunities
MAIM graduate opportunities are excellent. All graduates who are available for work have been employed in the multimedia industry, education or have gone on to further study. Those companies employing MAIM graduates include Oniva, RTE Online, ISL, EMG, NUA, DLAT and Capture Production, Windmill Lane and Web Factory. Most of those in industry are at middle management level. Many graduates have also set up their own companies.

Further information
Mr Tony Murray
Digital Media Centre
DIT Aungier Street
Dublin 2
t: +353 1 402 3013/3047
f: +353 1 402 3293
e: maim@dit.ie or: Media@dit.ie
w: http://www.dmc.dit.ie/maim

This course is a 12-month, full-time course, lasting from September to the end of August. All tuition takes place in the two semesters between September and June. It is a programme of tuition, a wide range of assignments, minor projects, newspaper production, seminars, tutorials, independent study and research. Apart from the regular assignments, students undertake two minor projects in the second semester. In the summer, they complete their major project or dissertation. A one-week Forum held early in the new year provides an opportunity for journalism students to broaden their horizons and engage in discussion and exchange of ideas with those working in the other media courses. The course is aimed at giving students a foundation in both the practice and theory of journalism. It ranges from the nuts and bolts of journalistic craft to consideration of the part that journalists play in society.

Course Outline:

Production:	Information Technology
	Editing
	Layout & Design
	Shorthand
	Newspaper Production
Professional Formation:	News Reporting
	News Writing
	Investigative Journalism
	Speciality Journalism
	Broadcasting
Theoretical Context:	Role of the Journalist
	Ethics
	Current Issues of Journalism
	Media Environment
	Media Law
	Media Forum

Research

Research Methodology

Research Seminars

Dissertation or Major Project

Location

DIT Aungier Street

Duration

Late September to end August

Assessment

Assessment is through a combination of continuous assessment and specific assignments, undertaken throughout the year.

Number of Hours

16 hours per week (including workshops), mainly in morning hours.

Entry Requirements

Applicants should have an honours degree (2.2 grade or higher) or equivalent, in any relevant discipline.

Number of Places

20

Career Opportunities

Currently excellent for former students with initiative. As there is increasing demand for graduates of journalism courses, people with postgraduate qualifications stand out. While the MA in Journalism began in 1998/1999, most of the students from the former Postgraduate Diploma in Journalism have established themselves as either free-lancers or in full-time jobs.

Closing Date for Applications

27th April 2001

Interviews

Applicants who meet the minimum entry requirements of an honours degree (2.2 grade or higher) may be selected for interview before an offer of a place is made. Interviews take place in May/June. Applicants should, where possible, submit evidence of a commitment to journalism - this could include articles written or published; working in college publications, newspapers or radio, etc.

Offer Date

Before end of June.

Further Information

Mr David Quin

School of Media

DIT Aungier Street

Dublin 2

t:: +353 1 402 3276

f: 353 1 402 3003

e David.Quin@dit.ie or: iMedia@dit.ie

This is a two-year, part-time Masters course which examines the central role that the media play in the profound changes that face society in the 21st century. The MA in Media Studies provides an ideal foundation for those interested in the theoretical study of media, its workings and its influence. Students are introduced to concepts of media analysis, debates about media, representation and identity, languages of narrative, questions of media policy as well as the study of culture, society and the media in Ireland. The course incorporates a strong research emphasis and in Year 2 students prepare a dissertation on an approved topic related to their study of media. The course is particularly suited to teachers interested in developing their knowledge of media studies, to media professionals who would like to acquire a critical and academic overview of media industries and to students interested in pursuing further postgraduate research in the area of media.

Course Outline

Year 1:
- Introduction to Media Studies
- Film Studies
- Issues in Television Culture
- Media Institutions and Policy
- Media Representation
- Perspectives in Cultural Theory
- Practical Workshops in Media Production

Year 2:
- Postmodernism and Culture in Contemporary Ireland
- Media and Minorities
- Research Methodology
- Dissertation Seminar
- Practical Workshops in Media Production

Duration
Two years, part-time

Location
DIT Aungier Street

Entry Requirements
Entry is open to holders of an honours degree (2.2 grade or higher) or equivalent in diverse disciplines.

Closing Date for Applications
27th April 2001

Award
Graduates of the course are eligible for the award of MA in Media Studies of the Dublin Institute of Technology.

Career Opportunities
The course is designed for anyone with a general interest in the field of media and communications wishing to pursue academic research in the area. It is particularly suited for educationalists and persons interested in teaching media studies.

Further Information
Mr Stephen Ryan
School of Media
DIT Aungier Street
t: +353 1 402 3277
f: +353 1 402 3003
e: Stephen.Ryan@dit.ie or: Media@dit.ie
w: http://www.dit.ie/aa/postgraduate/a354.html

This programme is for graduates from diverse disciplines. It has been designed to meet the growing demands of industry and music education for qualified personnel in the area of computer applications in music. A one-week Forum held in the new year provides an opportunity for students to broaden their horizons and engage in discussion and exchange of ideas with those working in the other media courses.

Course Outline
- Computer-assisted composition
- Signal analysis and sound processing
- Technology and music education
- Multimedia
- Acoustics
- Psychoacoustics
- Studio recording techniques
- Music programming
- Music and Multimedia
- Major project

Duration
One year full-time

Location
DIT Adelaide Road

Entry Requirements
Honours Degree (2.2 grade or higher) in music/science/engineering /informatics. Selection may be by interview.

Award
Graduates of the course are eligible for the award of MA in Music Technology of the Dublin Institute of Technology.

Closing Date for Applications
8th June 2001

Career Opportunities
Graduates will have career opportunities in the recording industry, music education, radio and television, composition and music instrument technology.

Further Information
Dr Paul McGettrick
Conservatory of Music and Drama
DIT Rathmines Road
Dublin 2
Ireland
t: +353 1 402 3507/3500
f: +353 1 402 3512
e: paul.mcgettrick@dit.ie
or: conservatory@dit.ie

DT305 MA in Public Relations

This one-year full-time programme provides a thorough understanding of public relations in the contemporary world, with particular emphasis on the theory and practice of public relations as a function of strategic management. The programme involves a work-placement and is approved by national and international professional bodies. A one-week Forum held early in the new year provides an opportunity for students to broaden their horizons and engage in discussion and exchange of ideas with those working in the other media courses.

Course Outline

- Theory and practice of public relations
- Strategic management
- Research methodology
- Design, print and desk top publishing
- Philosophical, cultural, marketing, legal and political environment
- Communication theory
- Writing skills
- Television, video and presentation skills

There is a research dissertation on a public relations topic as well as other practical research projects and work experience.

Duration

One year, full-time, from September

Location

DIT Aungier Street

Entry Requirements

Entry is confined to holders of an honours degree (2.2 grade or higher). Selection may be by interview.

Closing Date for Applications

27th April 2001

Award

Graduates of the course are eligible for the award of MA in Public Relations of the Dublin Institute of Technology.

Career Opportunities

Graduates are equipped to take up full-time employment in public relations consultancies and in-house public relations departments.

Recognition

The MA in Public Relations is approved by the Public Relations Institute of Ireland, the Institute of Public Relations (UK) and the European Public Relations Confederation (CERP).

Further Information

Mr Francis X Carty
School of Media
DIT Aungier Street, Dublin 2
t: +353 1 402 3098
f: +353 1 402 3198
e: fxcarty@indigo.ie or: Media@dit.ie

DT320 MA in Film Production

This course offers practical and theoretical education in film-making. It is designed to provide students with introductory training in the main areas of film-making from idea to screen. Students will develop ideas, draft story boards, write scripts, shoot films, work in post production and appreciate all of the steps involved in making a film. A one-week Forum held early in the new year provides an opportunity for students to broaden their horizons and engage in discussion and exchange of ideas with those working in the other media courses.

Course Outline

- Scriptwriting
- Storyboarding
- Camera and lighting techniques
- Directing
- Film production
- Film and business
- Mise-en-scene and montage
- Basic concepts in film semiotics and aesthetics
- Film and narrative
- Current debates in film theory and practice
- Dissertation to be presented at the end of the programme

Duration

One year, full-time

Location

DIT Aungier Street

Entry Requirement

Entry is confined to holders of an honours degree (2.2 grade or higher). Selection may be by interview.

Closing Date for Applications

27th April 2001

Award

Graduates of the course are eligible for the award of MA in Film Production of the Dublin Institute of Technology.

Further Information

Mr Malachy O' Higgins
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Dublin 2
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f: +353 1 402 3003
e: Media@dit.ie

This course is suitable for persons who require an overall appreciation of modern society through the perspective of crime and punishment, and through the various institutions (and their interaction) that comprise the criminal justice system, law, jurisprudence and research methods relevant to criminological studies.

Course Outline
- Lectures are provided in the following areas:
- Constitutional and Jurisprudential Concepts
- Criminal Law
- The History of both Criminological and Penological Issues
- The Logic of Inquiry

Candidates will also submit a thesis in partial fulfilment of their course.

Duration
Two years, part-time

Location
DIT Rathmines House

Entry Requirements
Open to degree holders (2.2 grade or higher) or equivalent. The course is particularly useful to people working in areas relevant to criminology, e.g. Gardai, Prison Officers, Journalists, Social Workers etc.

Closing Date for Applications
27th April 2001

Award
Graduates of the course are eligible for the award of Postgraduate Diploma in Criminological Studies of the Dublin Institute of Technology.

Career Opportunities
This course enhances the career prospects of all those concerned with the criminal justice system (e.g. Gardai, Prison Officers and Social Workers) as well as lawyers and media journalists.

Further Information
Ms Maureen Holland
School Secretary
School of Social Science
DIT Rathmines House
Rathmines Road
Dublin 6
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f: +353 1 402 3003
e: Socialsciences@dit.ie

• Subject to re-validation.

This programme provides an alternate path into a career in law. It should also interest those considering careers outside law, in which law plays an important part. The Postgraduate Diploma in Legal Studies aims to provide an integrated programme in the practice and theory of law, supported by lectures, tutorials, course work and research projects. The academic foundation in law gained by a successful student should be sufficient to permit him or her to proceed onto the further professional training necessary to become a solicitor. A graduate will acquire a critical understanding of, and approach to, the diversity of legal issues in contemporary Irish society - skills useful to a career in law, and transferable to employment in business, government, social work, and academia.

Course Outline

All students attend a two-week module entitled 'Introduction to Law, Legal Systems and Methods', in order to provide them with sufficient foundation for the subsequent study of substantive legal topics. In this introductory module, an emphasis is placed on practical skills such as accessing the law, and reading and analysing legal material. Following this introduction, students are introduced to substantive areas of law, such as constitutional law, criminal law, contract law, European Community law, tort law, equity, property law, company law and family law (not all subjects are available in all years). Instruction is provided through a combination of lectures, weekly tutorials, and coursework; students are expected to complement timetabled hours with private study and self learning. A commitment of approximately 40 hours per week normally is required of students on the course. Assessment will consist of a combination of unseen and seen written examination questions, as well as project work in the nature of research problems, coursework and essays.

Duration

One academic year, full-time.

Location

The course currently is delivered at DIT Aungier Street.

Entry Requirements

Admission to the Postgraduate Diploma in Legal Studies requires a second class honours primary degree (2.2 or higher). An interview may be required.

Closing Date for Applications

25th May 2001

Award

Graduates of the course are eligible for the award of Postgraduate Diploma in Legal Studies of the Dublin Institute of Technology.

Career Opportunities

The employment market appears buoyant at present for graduates of the Postgraduate Diploma in Legal Studies. Recent graduates have found employment principally in private law firms throughout Ireland. Some have sought employment in government, in business and lecturing at third-level educational institutions.

Further Information

Mr Bruce Carolan
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Faculty of the Built Environment

School of Architecture
School of Construction
School of Environmental Planning and Management
School of Real Estate and Construction Economics

Introduction

The Faculty of the Built Environment at DIT has for decades been the leading centre in all aspects of education in the built environment area in Ireland. Over recent years the Faculty has considerably expanded to generate research activities for this important sector of the national economy. In particular, the recent development of postgraduate courses has been augmented by the development of the MBA programmes in Facilities Management and Construction Project Management which commenced in September 2000. Also an MSc in Spatial Planning is on offer. Postgraduate research activities have developed with projects currently under way at Masters, Doctoral and Post-Doctoral level. These developments, along with a continuation of a tradition of broad industry links with public and private bodies, have seen applied research become a vital component in the development of the Faculty. It is expected that this development will lead to increasing opportunities for postgraduate activity in the built environment.

Examples of current research projects include:
- The application of advanced computer technologies to the design process.
- Evaluation and conservation of marine related structures.
- The role of rail stations as magnets for commercial development and in the urban regeneration process: an application to the Irish situation.
- Countering localised urban disadvantage: a comparative assessment of policies and programmes in Dublin, London, Rome and Amsterdam.

- Towards the specification, design and development of a database for the Dublin and mid-east regions. Research and development work on the preparation of a GIS based regional information system.
- Sustainable recreational use of natural assets - the development of sustainable indicators.
- Affordable housing policies.
- The economic competitiveness in Ireland: applications to central and peripheral urban areas.
- Conservation and the built environment.
- National and urban spatial planning - future scenarios.
- The conservation of stone, brick and mortars for heritage buildings.
- Sustainable urban development: city scenarios for Dublin.

Examples of future research priorities include:
- Urban regeneration - analysis of comparative international approaches with particular relevance to innovative fiscal policies.
- European metropolitan fringe areas: physical planning and development problems in peripheral urban areas (EU Programme).
- Scenario testing as a tool for decision making and future planning.
- I.T. and the construction industry.
- Sustainability - policy and implementation.
- GIS digital cartography - geodesy and GPS systems.
- Applications of I.T. technologies to building and urban design processes.

If you require further information about any of the taught postgraduate/Masters programmes, please feel free to contact either the course leader or School indicated on the following pages. Further information is also available on the website: *www.dit.ie./built.*

FT118 MSc in Sustainable Development/ Postgraduate Diploma in Sustainable Development

This course, which includes a work placement, provides a broad knowledge and understanding of sustainable development including the issues, techniques, management and applications relevant to the living and working environment.

Course Outline

Module 1   Building Blocks Module Synopsis

Commencing with Social Structures (including the central and local government systems), this Module outlines the basics of environmental science and the fundamentals of economics. It provides an overview of ecological inter-relationships and basic eco-toxicology. It introduces the many facets of energy and gives a philosophical framework for the whole course. Finally, the concept of sustainability is introduced.

Module 2   Pressures Module Synopsis

This module will focus on the areas of urbanisation, transport and energy and on the waste (in all its forms) that they generate. It will outline how Western society is changing and how governments are responding to these changes. Similarly, changes in our approach to the resource economics and heightened concern among consumers. It will also detail new approaches to resource economics and the changing nature of the consumer market. It will describe the nature of the transport and energy problems and how many of these problems are magnified in the urban situation. Finally, it will detail the problems of waste.

Module 3   Information and Systems Module Synopsis

To make students aware of the various sources of environmental information available (including those which are unpublished but to which the public has access) and how this information might be supplemented by research; to introduce the concept of 'systems' and how such systems can be modelled in mathematical terms; to outline the use of techniques such as Geographic Information Systems and to describe the techniques of decision making and conflict resolution.

Module 4   Control Mechanisms Module Synopsis

To provide students with a firm basis in environmental law and related statuses (European and domestic, Directives, Regulations and other instruments); to introduce and explain the range of environmental management systems which are currently being applied and to give an awareness of the application of the statutory planning system based on the Local Government (Planning and Development), Acts, Water Pollution Acts and other relevant legislation.

Module 5   Land Use Management Module Synopsis

Starting with the individual building, design technologies to reduce waste and energy consumption will be described, as will the use of sustainable and recyclable materials, alternative approaches to urban design aimed particularly at maximising the contribution of public transport. The particular location requirements of some of the more potentially polluting industries will be highlighted as will approaches to the management of some sensitive environments.

Module 6   An Integrated Approach Module Synopsis

An environmental and sustainable approach to the design of integrated human ecosystems; alternative approaches to waste treatment and to energy and transport; recent developments and obligations under international agreements and finally, the importance of education (at all levels) in heightening public awareness to the need for a sustainable approach.

Module 7   Field Trips Module Synopsis

To present live examples of sustainable development in action, giving students a 'hands-on' appreciation of problems, solutions and policies in applied situations as well as providing them with the opportunity of interacting with the various actors involved in the sustainable development process both at policy and performance levels.

Module 8   Computing and Communications Module Synopsis

This module has two elements (A) to make the student proficient in

(1) computing skills and the use of standard packages e.g. Excel, Powerpoint, Database etc. (2) in questionnaire design and analysis and (B) to make the student aware of the protocols and styles of academic dissertation and business professional report writing and to train them in oral presentation and facilitation skills.

Module 9   Work Placement and Dissertation Module Synopsis There are two elements involved (1) the monitored work experience (2) the undertaking of a 'real world' defined task and documenting this by way of an academically rigorous dissertation.

Location
DIT Bolton Street

Assessment
- Assessment typically includes:
- Two essays
- Dissertation
- Two oral presentations
- Two open book exams
- Study tour evaluation
- Synoptic exam

Course Duration, Structure and Outline Timetable
Duration: One calender year, mid October 2001 to mid October 2002
Structure: Lecture programme: 30% of total annual hours allocation.
Work experience: 20% of total annual hours allocation.
Study hours: 50% of total annual hours allocation
Lecture programme: Mid October-mid June.
Employment placement: Mid November-mid June
European study tour: End June/early July
Module assessment: Mid June,
Submission of study tour evaluation: End July
Submission of dissertation: End September
Submission of synoptic exam: Mid October

Entry Requirements
Honours degree in any relevant discipline at 2.2 grade or higher, or equivalent. Eligible candidates may be interviewed.

Award
Graduates are eligible for the award of MSc in Sustainable Development of the Dublin Institute of Technology. Option of Postgraduate Diploma for students who opt to submit a project in place of a dissertation.

Career Opportunities
Graduates are eligible for a wide range of posts in Irish and international enterprises, both public and private, in both the manufacturing and service sectors.

Closing Date for Applications
27th April 2001

Proposed Interview Date
Mid June 2001

Offer Date
Mid July 2001 (Conditional offers)

Further Information
Mr Gerry Walker, Faculty of the Built Environment
DIT Bolton Street, Dublin 1
t: +353 1 402 3652
f: +353 1 402 3999
e: gerry.walker@dit.ie
or
Ms Yvonne McGlynn, Faculty of the Built Environment
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FT119 MSc in Regional and Local Development/
Postgraduate Diploma in Regional and Local Development

This course, which includes a work placement, prepares students for careers in the public, private and community sectors in the field of regional and local development. Assessment is by non-traditional methods.

Course Outline

Module 1 Regional Development in Theory and Practice
Module Synopsis

Course nature and scope, the concept of endogenous development, an overview of regional development trends in Europe, convergence v divergence. An overview of the theories of regional development

Module 2 The EU, Member States and Their Regions
Module Synopsis

The structure, policies and programmes of the EU.
The regional situation and regional policies and programmes within the member states.

Module 3 Factors of Regional Development 1
Module Synopsis

Macro-economic forces, trends and policies, innovation and systems of innovation, RTD and the innovation process, innovation policies and strategies as mechanisms for the stimulation of endogenous development.

Module 4 Factors of Regional Development 2
Module Synopsis

Entrepreneurs and their role as agents of change; communication networks and learning efficiency. Education and Training with particular reference to the role of vocational training; culture and industrial organisation.

Module 5 Measures and Instruments
Module Synopsis

Financial support, training and skills acquisition, physical planning, infrastructure, freight transportation, energy planning, waste management

Module 6 Analytical and Monitoring Tools
Module Synopsis

Business and Development Planning, Cost Benefit Analysis RTD evaluation, information and networking assessment, technology acquisition and management.

Module 7 Field Trips
Module Synopsis

To present live examples of sustainable regional and local development in action, giving students a "hands-on" appreciation of problems, solutions and policies in applied situations as well as providing them with the opportunity of interacting with the various actors involved in the development process both at policy and performance levels..

Module 8 Computing and Communications
Module Synopsis

This module has two elements (A) to make the student proficient in (1) computing skills and the use of standard packages e.g. Excel, Powerpoint, Database etc. (2) in questionnaire design and analysis and (B) to make the student aware of the protocols and styles of academic dissertation and business, professional report writing and to train them in oral presentation and facilitation skills.

Module 9 Work Placement and Dissertation
Module Synopsis

There are two elements involved (a) the monitored work experience and (b) the project dissertation consisting of the undertaking of a 'real world' defined task and documenting this by way of an academically rigorous dissertation.

Assessment

- Two essays
- Dissertation
- Two oral presentations
- Two open book exams
- Study tour evaluation
- Synoptic exam

Course Duration, Structure and Outline Timetable

One calendar year: Mid October 2001 to mid October 2002

Structure: Lecture programme: 30% of total annual hours allocation.

Work experience: 20% of total annual hours allocation.

Study hours: 50% of total annual hours allocation.

Lecture programme: Mid October - mid June.

Employment placement: Mid November - mid June.

European study tour: End June/early July

Module assessment: Mid June

Submission of study tour evaluation: End July

Submission of dissertation: End September

Submission of synoptic exam: Mid October

Entry Requirements

Honours degree in any relevant discipline at 2.2 grade or higher, or equivalent. Eligible candidates may be interviewed.

Award

Graduates are eligible for the award of MSc in Regional and Local Development of the Dublin Institute of Technology. Option of Postgraduate Diploma for students who opt to submit project in place of dissertation.

Location

DIT Bolton Street

Career Opportunities

Graduates are eligible for a range of posts in Ireland and Europe in community development organisations, public and private enterprises and with regional and local development authorities.

Closing Date for Applications

27th April 2001

Proposed Interview Date

Mid June 2001

Offer Date for Applications

Mid July 2001 (Conditional offers)

Further Information

Ms Yvonne McGlynn
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e: yvonne.mcglynn@dit.ie
or
Mr Hendrik W Van der Kamp
Faculty of the Built Environment
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B707 MSc in Planning and Development •

This two year, part-time course provides the educational requirements for practice as a Planning and Development Surveyor. It also serves the purpose of broadening the knowledge and skill base of professionals working in the built environment field.

Course Outline

- Valuations
- Law
- Urban land economics
- Taxation and rating
- Building technology and management
- Principles and techniques of planning
- Planning and development policies
- Practice and procedures
- Finance and investment
- Site visits
- Dissertation

Duration

Two years, part-time. The course requires attendance for eight hours weekly (normally 1.30pm to 9.30pm on Mondays) plus tutorials and site visits over two academic years concluding with the submission of the dissertation on the last day of September of the second year.

Location

DIT Bolton Street

Entry Requirements

Entry to holders of recognised professional qualifications in planning, architecture, surveying, engineering, law, accountancy, or an appropriate honours degree (2.2 grade or higher), and a minimum of three years post-certification suitable work experience in the built environment field.

Award

Graduates of the course are eligible for the award of MSc in Planning and Development of the Dublin Institute of Technology.

Career Opportunities

The course has been recognised by the Society of Chartered Surveyors/Royal Institution of Chartered Surveyors as fulfilling the academic requirements for membership of the Planning and Development Division of the Society and Institution. The postgraduate diploma course from which the master course has been developed also enjoyed this recognition.

Further Information

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or
Mr Hendrik W Van der Kamp
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Dublin 1
t: +353 1 402 3745
f: +353 1 402 3999
e: Henk.Vanderkamp@dit.ie

• Enrolment to this course takes place in alternative years. The next cycle will commence in the academic year 2002/2003.

A357 MBA (Facilities Management)

This course is offered on a part-time basis over five semesters and is designed for participants with substantial managerial experience. The course prepares participants for a career at senior management level by developing their capacity to contribute to and lead the strategic direction of their organisation. The programme is delivered through both direct and self-directed learning using a variety of approaches which enhance the interpersonal skills and leadership qualities of participants. Four elective streams are available under the MBA umbrella and these consist of Accounting and Finance, Marketing, Facilities Management, and Construction Project Management.

Course Outline
Semester 1
The first semester consists of subjects in the following areas (which are compulsory):
- Economic analysis
- Financial analysis
- Marketing
- Management science
- Management of organisations

Semester 2
In the second semester course participants will take the following four core subjects:
- Law
- Operations management
- Management control and decision making
- Corporate finance

In addition participants will take one course in their specialist stream, as follows:
Facilities management stream:
- The property development process

Semester 3
In the third semester students will take three core management subjects and two elective subjects from their chosen stream
Core:
- Economics of strategy
- Human resource management
- Strategic information systems

Facilities management stream:
- Corporate property strategy
- Project management

Semester 4:
In the fourth semester students will take the two core management subjects and three elective subjects from their chosen stream.
Core:
- Business and society
- Strategic management

Facilities management stream:
- Management of facilities
- Strategic benchmarking, outsourcing and management information technology systems
- Property finance and valuation.

In addition to the core courses and five electives, designed to develop their capacity to contribute to their professional areas, participants will take courses on research design and methodology.

Semester 5
In the final semester of the course, participants will complete a dissertation of 15,000 words which will address a general managerial problem or issue. This will enable the participants to undertake a learning 'journey which is largely self directed and which will integrate

the various domains of knowledge acquired. The dissertation provides an opportunity to concentrate on a discipline or sectoral field of business which may become a focus of career development. The dissertation is a mandatory requirement of the award of the MBA.

Assessment
Assessment will be based on a combination of written examinations and a range of other methods including case studies, reports, projects and group presentations.

Course Duration and Structure
Structure: Formal class work will comprise 10 hours per week during semesters 1 to 4.
Duration: 5 semesters

Entry Requirements
Candidates should possess the following: either an honours degree at 2.2 grade or higher or an equivalent recognised professional qualification plus a minimum of three years relevant experience. In exceptional cases, candidates who do not hold an honours degree or equivalent may be accepted. To be eligible to apply, such candidates should have at least 7 years relevant experience at a senior management level. They will also be required to undertake an admission requirement which will demonstrate the following: the ability to evaluate critically, the ability to synthesise theory and practice, the ability to select a solution to a problem from various alternatives, the ability to work autonomously and accept accountability. All candidates must also achieve a satisfactory result in the Graduate Management Admission Test (GMAT).

Closing Date for Applications
The closing date for the first round of offers is 30th March 2001. Subject to the availability of places, further applications may be accepted up to 31st May 2001.

Award
Graduates will be eligible for the award of MBA (Facilities Management) of the Dublin Institute of Technology

Location
DIT Aungier St, DIT Bolton St

Further Information
Mr Declan Mc Keown
Faculty of the Built Environment
DIT Bolton St, Dublin 1
t: +353 1 402 3741
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or
Ms Elish Carr
MBA Programme Manager
Faculty of Business
DIT Aungier Street, Dublin 2
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f: +353 1 402 3076
e: mba.manager@dit.ie

A357 MBA (Construction Project Management)

This course is offered on a part-time basis over five semesters and is designed for participants with substantial managerial experience. The course prepares participants for a career at senior management level by developing their capacity to contribute to and lead the strategic direction of their organisation. The programme is delivered through both direct and self-directed learning using a variety of approaches which enhance the interpersonal skills and leadership qualities of participants. Four elective streams are available under the MBA umbrella and these consist of Accounting and Finance, Marketing, Facilities Management, and Construction Project Management.

Course Outline
Semester 1
The first semester consists of subjects in the following areas (which are compulsory):
- Economic analysis
- Financial analysis
- Marketing
- Management science
- Management of organisations

Semester 2
In the second semester students will take the four core management subjects and one elective subject from their chosen stream
Core:
- Law
- Operations management
- Corporate finance
- Management control and decision making

Construction project management stream:
- The property development process

Semester 3
In the third semester students will take three core management subjects and two elective subjects from their chosen stream.
Core:
- Economics of strategy
- Human resource management
- Strategic information systems

Construction project management stream:
- Construction planning and control
- Project management

Semester 4
In the fourth semester students will take the two core management subjects and three elective subjects from their chosen stream.
Core:
- Strategic management
- Business and society

Construction project management stream:
- Procurement studies
- Development valuations
- Development finance

In addition to the above core and elective courses, participants will take courses on research design and methodology.

Semester 5
A minor dissertation of 15,000 words addressing a general management problem or issue is a mandatory requirement for the award of MBA. The dissertation must contain appropriate primary research of a quantitative and/or qualitative nature. In the instance of a 'case study' type approach, as may be the situation with a student choosing a facilities or construction project management elective, the research dimension will be reflected in data collected and analysed on the particular firm. The dissertation encourages the student to deepen

his/her knowledge of an aspect of business and its management, enables concepts and analytical techniques to be applied in a real world context, and demonstrates an ability to execute a body of research in a largely self-driven manner. The dissertation also provides an opportunity to concentrate on a discipline or sectoral field of business which may become a focus of career development.

Assessment

Assessment will be based on a combination of written examinations and a range of other methods including case studies, reports, projects and group presentations.

Course Duration and Structure

Structure: Formal class work will be comprised of 10 hours per week during semesters 1 to 4.
Duration: 5 semesters.

Entry Requirements

Candidates should possess the following: either an honours degree at 2.2 grade or higher or an equivalent recognised professional qualification plus a minimum of three years relevant experience. In exceptional cases, candidates who do not hold an honours degree or equivalent may be accepted. To be eligible to apply, such candidates should have at least 7 years relevant experience at a senior management level. They will also be required to undertake an admission requirement which will demonstrate the following: the ability to evaluate critically, the ability to synthesise theory and practice, the ability to select a solution to a problem from various alternatives, the ability to work autonomously and accept accountability. All candidates must also achieve a satisfactory result in the Graduate Management Admission Test (GMAT).

Closing Date for Applications

The closing date for the first round of offers is 30th March 2001. Subject to the availability of places, further applications may be accepted up to 31st May 2001.

Award

Graduates will be eligible for the award of MBA (Construction Project Management) of the Dublin Institute of Technology

Location

DIT Aungier St, DIT Bolton St.

Further Information

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This new part-time course provides an opportunity for existing professionals who work in the area of the built environment in Ireland or abroad, to become professional planners by attending a part-time planning course. Through a modular delivery of lectures, tutorials and seminars over a period of 2.5 years, including the successful completion of a dissertation, students can obtain a planning qualification. The need to expand significantly the number of planners in Ireland has become evident as a result of increased levels of construction in the country and the introduction of new planning legislation. This increased demand is felt in both the public and private sectors of the profession. The purpose of this course is to address the immediate nature of the need for more professional planners by focusing on experienced professionals in the built environment who are already working in, or at the margins of the planning system. In addition, the course seeks to bring a wider range of multi-skilled people into the planning practice. The course is presented within the new School of Environmental Planning and Management in the Faculty of the Built Environment in DIT. It is envisaged that the intake of students will be approx. 15-20 of different disciplines and backgrounds, all with substantial experience in the built environment. Because students will be experienced practising professionals from different disciplines, the course provides scope for a considerable degree of inter-disciplinary learning and evaluation of experience both within the student group as well as between lecturers and students. Students are expected to actively contribute to this interactive process.

Course outline

The curriculum covers the areas of: spatial planning, planning theory, European planning, planning law, development control, design, urban design, action area plans, rural planning, building technology, resource management, property development, transport and communications, ecology and environmental pollution, environment and planning, economics, sociology, urban and regional development, data analysis, GIS, and planning techniques.

Duration

The course will be presented on a part-time basis through a five-semester cycle and will therefore require 2.5 years to complete. During each of semesters one to four, attendance will be required for four periods of one week as well as one weekend seminar. During the lecture/tutorial weeks full-time attendance will be necessary. Between these week-long periods of course attendance, students will be able to work in their place of employment and, other than self-study, course attendance is not required. Total course attendance will therefore amount to sixteen weeks of lectures and tutorials, four weekend seminars, and two exam periods. Written examinations will be held at the end of years one and two. During the fifth semester (year 3), students work primarily on their dissertation.

Location

DIT Bolton Street, Dublin 1

Entry Requirements

In order to be admitted to the course, students must meet the following requirements:

- An appropriate (honours) degree or equivalent;
- Normally a minimum of five years relevant experience in a professional capacity (not necessarily consecutive years);
- An ability to demonstrate a current position in employment that is relevant to spatial planning and a willingness by the employer to make time available to attend the course and to assign tasks in such a way that the student can link current work experience to the material covered in the course.

Prospective students are expected to address these matters in the written application as well as in an interview.

Closing Date for Applications

8th June 2001

Award

The degree of MSc in Spatial Planning of the Dublin Institute of Technology will be awarded to participants who successfully pass the formal examinations and assessments of the programme and who complete and successfully pass the dissertation.

Career Opportunities

The course has been designed to address all core requirements of a professional planning course. It is intended that the course will obtain a permanent place in the education of planners in Ireland as a specific route to a professional qualification for those who are already working in areas related to planning. The course specifically focuses on the professional practice of spatial planning, the design and technical expertise aspects of the profession and the sustainability and environmental issues. The setting up of the course and its broad content are supported by the main professional organisation representing professional planners in Ireland: the Irish Planning Institute. Separate accreditation will be sought from the Irish Planning Institute, the Royal Town Planning Institute, as well as the Planning & Development Division of the Society of Chartered Surveyors.

Further Information

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Course Administrator
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The Faculty of Business at DIT is one of Ireland's leading Business Schools providing undergraduate and postgraduate programmes for some 2,800 whole-time and 2,400 part-time students. The Faculty currently offers six undergraduate honours degree programmes as well as Certificate and Diploma courses and it is the most significant provider of part-time continuing education in Ireland with five part-time degrees and a range of professional courses. The Faculty brings together the largest critical mass of students, post graduates, teachers and researchers in the disciplines of Marketing and Accounting on the island. It also offers specialists teaching programmes and research activities in Retailing, Information Systems, Human Resource Management, Health Services Management, Insurance Studies and Transport & Logistics.

Current postgraduate programmes include MSc Degrees in International Marketing, Business to Business Marketing, Services Marketing, and Direct Marketing; an MSc in Advertising (in association with the Joint Advertising Education Committee) and Postgraduate Diplomas in Accounting and Internet Systems Development. A part-time MSc in Strategic Management and an MBA in Accounting and Finance and in Marketing were also set up in 2000/2001. The Faculty has specialised in the provision of postgraduate conversion opportunities for graduates from a wide range of disciplines (incl. Humanities, Engineering, Science, Law, Agriculture) who wish to develop a career in Business. DIT was the first Business School in Ireland to offer such opportunities in the early 1980s creating a cadre of highly successful managers in local and international business. The Faculty currently provides off-site programmes with the support of Forbairt for science & technology graduates in the major food companies leading to the award of Graduate Diploma in Management Practice.

Research interests in the Faculty span the full range of business disciplines with particular emphasis on Marketing Management, Information Systems, Consumer Behaviour, Advertising, Electronic Business, Retailing, Health Management and Informatics and Macro Marketing/Sustainable Development. At any given time approx. twenty whole-time research students funded under the Postgraduate R & D Skills Programme and the DIT Scholarship Scheme are registered for M.Phil and PhD degrees. Future plans include the expansion of opportunities to pursue Research Degrees on a part-time basis. The annual output of Scholarly Papers and Conference Presentations represents one of the largest contributions to Business Research and Scholarship in Ireland and two fully refereed journals are currently published from the Faculty, viz *Irish Marketing Review* and *Advances in Business Studies*.

The Faculty (in association with the Faculty of the Built Environment) launched an MBA Programme in the academic year 2000/2001 with innovative specialist options and delivery strategies. Specialisms include Marketing, Accounting & Finance, Facilities Management and Construction Project Management.

The Faculty welcomes the opportunity to discuss postgraduate research and taught programmes with students from Ireland and abroad. Contact us through the Office of Graduate Studies and Research at Fitzwilliam House, DIT Pembroke Street or Dr Eddie Rohan @ e: erohan@dit.ie.

This programme is specifically aimed at graduates in science, engineering and technology and comprises an intensive conversion course for non-business graduates. However, graduates from other disciplines such as law, economics, social sciences, communications and arts have found its breadth and rigor to be very challenging. In consequence, it has proved to be of considerable benefit to their career development.

Course Outline

In Semester 1, the graduate studies all the basic business subjects such as marketing, finance, statistics, communications, information technology, marketing research and management. Such accelerated learning gives him or her the conceptual tools to analyse business situations and undertake business planning. In the second semester, a more detailed investigation is undertaken. Disciplines such as strategic management, buyer behaviour and marketing communications are studied in considerable depth. Students are enabled to exercise their analytic and decision-making skills by means of case studies. In addition, each candidate engages in a specialised study of business to business marketing and sales management. A conceptually-based course in research methodology forms another essential element of this semester. Its objective is to build on the foundation of statistics and marketing research from semester 1 and to equip them to formulate suitable research topics for the masters dissertation. Research supervisors are allocated at this stage.

Duration

One calendar year, full-time, over three semesters

Location

This course is currently delivered at DIT Aungier Street

Entry Requirements

A minimum second class honours degree (2.2 or higher) in a discipline other than business or marketing, or equivalent. Selection may be by interview.

Award

Graduates of the course are eligible for the award of Masters in Marketing of the Dublin Institute of Technology.

Career Opportunities

Graduates will have enhanced career prospects for a wide range of posts in Irish and international businesses.

Closing Date for Applications

27th April 2001

Offer Date

A first round of offers will be made in August 2001.

Further Information

Dr Eddie Rohan
School of Marketing
DIT Mountjoy Square
Dublin 1
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e: erohan@dit.ie

This programme is specifically aimed at graduates who wish to utilise their skills in modern continental languages in a business environment. Candidates who undertook this course have found the programme in international marketing studies to be most valuable in preparing them to achieve their career objectives.

Course Outline

In Semester 1, the student studies all the basic business subjects such as marketing, finance, statistics, communications, information technology, marketing research and management. Such accelerated learning gives the candidate the conceptual tools to analyse business situations and to formulate business plans. In the second semester, a more detailed investigation is undertaken into disciplines such as strategic management, buyer behaviour and marketing communications. Students sharpen their analytic and decision-making skills by means of case studies. In addition, each candidate engages in a specialised study on international marketing. Furthermore, they advance their existing language skills by focussing on business plans. A conceptually-based course in research methodology forms another essential element of this semester. Its objective is to build on each candidates knowledge of statistics and marketing research techniques from semester 1 and to equip them to formulate suitable research topics for the master's dissertation. Supervisors are allocated when the research area has been identified.

Duration

One calendar year, full-time, over three semesters

Location

This course is currently delivered at DIT Aungier Street

Entry Requirements

Minimum second class honours degree (2.2 or higher) in a modern continental language, or equivalent. Selection may be by interview.

Award

Graduates of the course are eligible for the award of Masters in Marketing of the Dublin Institute of Technology.

Career Opportunities

Given the importance of international marketing in the Irish economy, past graduates have found this course to be a very suitable preparation for employment.

Closing Date for Applications

27th April 2001

Offer Date
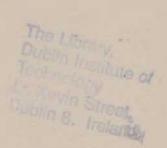
A first round of offers will be made in August 2001.

Further Information

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FT550 MSc in Marketing (Direct Marketing)

This programme is specifically aimed at graduates in science, engineering and technology comprising an intensive conversion course for non-business graduates. However, graduates from other disciplines such as information technology, economics, social sciences, art and design and communications have skills which lend themselves to this emerging sector.

Course Outline

In Semester 1, the student studies basic business subjects such as marketing, finance, statistics, communications, information technology, marketing research and management. The accelerated learning programme gives each candidate the conceptual tools to analyse business situations and to undertake business planning. In the second semester, the treatment of subjects is at a more strategic level. A more detailed investigation is undertaken into such disciplines as strategic management, buyer behaviour and marketing communications. Students sharpen their analytic and decision-making skills by means of case studies. Each candidate engages in a specialised study of direct marketing and database management. A foundation course in research methodology forms another essential element of this semester. Its objective is to further the student's knowledge of statistics and marketing research techniques and to equip them to formulate suitable research topics for the masters dissertation. Research supervisors are allocated as soon as a suitable research area is identified.

Duration

One calendar year, full-time, over three semesters

Location

This course is currently delivered at DIT Aungier Street

Entry Requirements

Minimum second class honours degree (2.2 or higher) in any non-business discipline, or equivalent. Selection may be by interview.

Award

Graduates of the course are eligible for the award of Masters in Marketing of the Dublin Institute of Technology.

Career Opportunities

These graduates are attractive to employers, as their specialist area is of increasing importance in a wide variety of businesses.

Closing Date for Applications

27th April 2001

Offer Date

A first round of offers will be made in August 2001.

Further Information

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This programme is specifically aimed at providing graduates in all non-business disciplines, such as information technology, economics, social sciences, art and design and communications, with skills that lend themselves to this major sector of economic activity.

Course Outline

In Semester 1 the student studies all the basic business subjects such as marketing, finance, statistics, communications, information technology, marketing research and management. Such accelerated learning gives the candidate the conceptual tools to analyse business situations and undertake business planning. In the second semester a more detailed investigation is undertaken into such disciplines as strategic management, buyer behaviour and marketing communications. Students sharpen their analytic and decision-making skills in these areas by means of case studies. In addition each will engage in the specialised study of services marketing and relationship marketing. A conceptually-based course in research methodology forms another essential element of this semester. Its objective is to build on each candidates knowledge of statistics and marketing research techniques and to equip them to formulate suitable research topics for the masters dissertation. Research supervisors are allocated at this stage.

Duration

One calendar year, full-time, in three semesters.

Location

This course is currently delivered at DIT Aungier Street

Entry Requirements

Minimum second class honours degree (2.2 or higher) in any non-business discipline, or equivalent. Selection may be by interview.

Award

Graduates of the course are eligible for the award of Masters in Marketing of the Dublin Institute of Technology.

Career Opportunities

The employment prospects for these graduates are particularly attractive, given the importance of the services sector.

Closing Date for Applications

27th April 2001

Offer Date

A first round of offers will be made in August 2001.

Further Information

Dr Eddie Rohan
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This course, aimed at non-computing graduates, is a one year full-time intensive introduction to the development of web systems. It addresses a range of required skills including programming, database design, systems configuration and security.

Course Outline
- Networking and TCP/IP
- Web programming in Java and Perl
- Database systems
- Internet security
- Web systems
- Law and the Internet
- Electronic Commerce

Duration
One year, full-time

Location
DIT Aungier Street

Entry Requirements
Honours primary degree (grade 2.2 or higher) with some internet and computer experience required. Selection may involve interview.

Closing Date for Applications
8th June 2001

Award
Graduates of the course will receive the award of Postgraduate Diploma in Internet Systems Development of the Dublin Institute of Technology.

Career Opportunities
Graduates of this course will be well equipped to develop robust and secure transaction oriented systems for deployment on the Web.

Further Information
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DT510 Postgraduate Diploma in Accounting

The course aims to introduce non-accounting graduates to an intensive course in accounting and accounting related subjects, preparing them for stage 3 (or its equivalent) of the major professional accounting bodies courses.

Course Outline
- Financial accounting
- Management accounting
- Taxation
- Auditing & Business ethics
- Business information systems
- Law
- Economics
- Financial and operations management
- Management science

Location
DIT Aungier Street

Assessment
By written examination

Duration
Commences September 2001 and ends May/June 2002

Timetable
Up to 30 hours per week

Entry Requirements
Honours degree (2.2 grade or higher) in any discipline

Award
Postgraduate Diploma in Accounting of the Dublin Institute of Technology

Career Opportunities
Graduates are accepted on to Stage 3 (or equivalent) of ACCA, CIMA, ACA and CPA courses.

Closing Date for Applications
8th June 2001

Offer Date
Up to September 2001

Further Information
Mr Noel O' Brien
Department of Accountancy
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This course focuses on the acquisition of knowledge and the development of skills in the field of advertising. Students are exposed to a range of relevant marketing communications topics. The degree is designed to equip students for a career in the advertising industry in general, and in advertising agencies in particular.

Course Outline

The *first semester* introduces participants to the principles of Advertising, Marketing, Marketing Communications, Advertising Media, Research and Creative and Production Techniques.

In the *second semester*, students specialise in the creative or executive aspects of advertising. There are fourteen places available in the executive stream and ten places available in the creative stream. Students apply for a place during semester one in their preferred stream and places are allocated on the basis of a selection process. The creative stream focuses on Copywriting, Art Direction and TV & Radio Production and Design & Layout. The executive stream focuses on issues in Advertising and Marketing, Client Service and Media Planning. At the end of semester two all students work on an advertising campaign using a real brief supplied by a client, which they develop and execute in teams, or 'Advertising Agencies', that 'pitch for the account' at the end of the course. Research methods are also introduced to all students in advance of their independent research. *Semester three* involves independent learning in the completion of a research dissertation, under the guidance of a supervisor.

Duration

One year full-time, over three semesters

Location

DIT Aungier Street

Entry Requirements

Minimum second class honours degree (2.2 or higher) in any discipline or equivalent third level qualification. Shortlisted candidates may be interviewed between mid-May and early June of the year of intake. There is a common intake, but students must apply for a place in their preferred stream for semester two during semester one, and places are allocated on the basis of a selection process.

Closing Date for Applications

27th April 2001

Award

Graduates are eligible for the award of MSc in Advertising of the Dublin Institute of Technology.

Career Opportunities

Graduates are equipped with the knowledge and skills to enable them to take up positions in advertising agencies. Some also work in specialist advertising companies such as creative boutiques or media specialists. Others work in related advertising and marketing service areas such as market research, graphic design, sales promotions or direct marketing. Opportunities also arise with media companies in media sales or on the client side in advertising or promotions management.

Further Information

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This course which is offered on a part time mode over five semesters, is designed for participants with substantial managerial experience. It prepares participants for a career at senior management level by developing their capacity to contribute to, and lead, the strategic direction of their organisation. It is delivered by a programme of directed and self-directed learning using a variety of approaches which enhance the interpersonal skills and leadership qualities of the participants. Four elective streams are available within the course: these are Accounting and Finance, Facilities Management, Marketing, and Construction Project Management.

Course Outline
Semester 1
The first semester consists of subjects in the following areas, all of which are compulsory.
- Financial analysis
- Economic analysis
- Marketing
- Management science
- Management of organisations

Semester 2
In the second semester course participants will take the following core subjects:
- Law
- Operations management
- Management control and decision making
- Corporate finance

In addition, participants will take one course in their specialist stream, as follows:

Accounting and finance stream: Taxation

Marketing stream: Consumer behaviour

Semesters 3 and 4
In these semesters participants will take five core courses, and five electives chosen from their particular streams, as follows:

Semester 3
Core: Economics of strategy
Human resource management
Strategic information systems

Accounting and finance stream: Corporate finance theory
Management control

Marketing stream: Marketing communications
Services marketing

Semester 4
Core: Strategic management
Business and society

Accounting and finance stream: Financial markets and instruments
Financial decision making
Financial reporting and regulation

Marketing stream: Management of sales
Marketing management
International business.

In addition to the above core courses, and the five electives, designed to develop their capacity to contribute to their professional areas, participants will take courses on research design and methodology.

Semester 5

In the final semester of the course, participants will complete a dissertation of 15,000 words which will address a general managerial problem or issue. This will enable the participants to undertake a learning 'journey' which is largely self-directed and which will integrate the various domains of knowledge acquired. The dissertation provides an opportunity to concentrate on a discipline or sectoral field of business which may become a focus of career development. The dissertation is a mandatory requirement for the award of the MBA.

Assessment

Assessment will be based on a combination of written examinations and a range of other methods including case studies, reports, projects and group presentations.

Course Duration and Structure

Structure: Formal class work will comprise 10 hours per week during semesters 1 to 4.
Duration: 5 semesters

Entry Requirements

Candidates should possess the following: either an honours degree at 2.2 grade or higher or an equivalent recognised professional qualification plus a minimum of three years relevant experience. In exceptional cases, candidates who do not hold an honours degree or equivalent may be accepted. To be eligible to apply, such candidates should have at least 7 years relevant experience at a senior management level. They will also be required to undertake an admission requirement which will demonstrate the following: the ability to evaluate critically, the ability to synthesise theory and practice, the ability to select a solution to a problem from various alternatives, the ability to work autonomously and accept accountability. All candidates must also achieve a satisfactory result in the Graduate Management Admission Test (GMAT).

Closing Date for Applications

The closing date for the first round of offers is 30th March 2001. Subject to the availability of places, further applications may be accepted up to 31st May 2001.

Award

Graduates will be eligible for the award of one of the following degrees of the Dublin Institute of Technology:
MBA (Accounting and Finance)
MBA (Marketing)

Location

DIT Aungier Street

Further Information

Ms Elish Carr
MBA Programme Manager
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M587 MSc in Strategic Management

The MSc in Strategic Management is designed to bring business executives into contact with the work of outstanding contemporary thinkers and practitioners. The programme places a strong emphasis on integrating in-depth analysis and critique of strategic options with practical application in a fast-changing business environment. Participants are exposed to a range of theoretical frameworks and scenarios designed to support strategic solutions in the new economic order. During the two years of part-time participation in lectures, business simulations, seminars and workshops, key topics such as strategy, new e-business models, organisational design, analytical processes and research methods are examined in depth.

Course Outline

In semester one, students study two core subjects, Strategic Management and E-Business Strategy. In semester two, they study one core subject, Organisational Design and Development Theory. They also study their choice of one subject (subject to demand) from an options list which includes Marketing Theory, European Business, Technology Management, Strategic Operations Management and Comparative Human Resource Management. Semester three consists of two core subjects, Research Methods and Corporate Financial Strategy. In semester four, students study one core subject, Management Science. They also study their choice of one subject (subject to demand) from an options list which includes Consumption, Markets and Culture, Project Management, Sustainable Development, E-Marketing and Corporate Communications. The first four semesters are taught. Students complete a research dissertation in semester five.

Career Opportunities

The programme enhances the competencies - strategy, leadership and pathfinding - which equip participants for senior management roles. The MSc in Strategic Management prepares business graduates for a career in management with the specific aim of accelerating their progression to senior management in the private commercial sector, in the public sector, in consultancy and in various advisory and research roles.

Duration

The course is delivered over five 15-week semesters with a total duration of one academic and one calendar year. Each semester consists of a total of 15 weeks including teaching, self-directed study and examinations.

Location

DIT Aungier Street

Closing Date for Applications

27th April 2001

Award

Graduates are eligible for the award of MSc in Strategic Management of the Dublin Institute of Technology.

Entry Requirements

Graduates of degree courses in business, economics (or an undergraduate programme where business subjects account for at least 50% of the subjects) who have achieved an honours grade (2.2) or higher are eligible to apply. Applications from candidates who have an equivalent qualification at honours level (for example, ACCA or other professional qualifications) will also be considered.

Further Information

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School of Engineering Technology
School of Electronic and Communications Engineering
School of Control Systems and Electrical Engineering
School of Mathematics, Science & General Studies
Computing and Information Technology
Department of Transport Engineering
Department of Applied Technology

Welcome from the Director

Engineering is a vibrant profession that is developing continuously in line with technological and social change. The scientific and technical advances in recent years are providing engineers with new challenges and expanding horizons. In order to facilitate and promote these changes and developments, it is essential that the engineer plays a leading role in researching both the fundamental and applied technologies.

The Faculty of Engineering provides programmes covering all of the engineering disciplines and views research as a major part of the development of teaching and learning of engineering. The Faculty supports the academic staff and postgraduate students through a series of initiatives, such as the Research Scholarship Scheme, the Postgraduate R & D Programme and the Seed Fund Programme, which provides support for academic staff to develop new ideas from concept to project stage.

Research plays an important part of our external links with industry and with other academic institutions at home and abroad. We are actively involved in EU funded programs in conjunction with our European partners. The Faculty contribution to research is also supplemented by the various associated centres. The centres act as a focal point for the academic staff & researchers to interact with industry. In recent years the Faculty has developed taught postgraduate courses as part its continuing commitment to further education. These programs are offered on full-time and part-time modes. Each of these programmes contains a substantial research component. Each student is required to present a research dissertation as part of his or her studies. The postgraduate awards for students successfully completing research projects and taught programs are:

Postgraduate Diploma (Taught Program)	PgDip
Postgraduate Diploma (Research)	PgDip (Res)
Masters degree (Taught Program)	MSc
Masters Degree (Research)	MPhil
Doctoral Degree	PhD

The Faculty welcomes and encourages full-time research students. Postgraduate students will find the DIT a fertile and stimulating environment for completing their studies. The staff of the various schools will be happy to provide information on the range of opportunities that are available. I wish to extend a warm welcome to you and to wish you success and fulfilment in your further studies.
Frank Brennan,
Director, Faculty of Engineering

The Faculty of Engineering is currently divided into the following Schools & Departments:

The School of Engineering Technology
Academic disciplines:
Building Services Engineering
Civil Engineering
Manufacturing Engineering
Mechanical Engineering
Structural Engineering

Head of School: Mr Daniel Byrne
t: +353 1 402 3636
f: +353 1 402 3999
e: daniel.byrne@dit.ie

Current research areas:

- Developing computer programs to co-ordinate design stage information for building construction
- Aspects of the manufacture of glulam from Irish timber
- The development of key environmental indicators such as embodied carbon dioxide for use in the building design process
- The identification and development of computationally efficient numerical models for building energy simulation
- Application of structural composite timber (SCT) products in timber frame buildings
- Technical assistance in the development of a timber specifier's guide
- Customised CAD/CAM system for wood routing industry
- Slab drawing layout
- Unified method of floor design for the precast concrete industry
- Development of a PC based 2D digitising system
- Potential for evaporative cooling in a maritime climate
- An electromechanical battery storage system based on a toroidal flywheel rotating in a vacuum
- Development of guidelines for the application of Accredited Prior Learning to Engineering programmes

School of Electronic and Communication Engineering
Academic disciplines:

Communications Engineering
Computer Engineering
Electronic Engineering

Head of School: Mr Christopher Bruce
t: +353 1 402 4576
f: +353 1 475 6669
e: christopher.bruce@dit.ie

Current research areas:

- DSP base smart antennas for indoor/mobile radio applications

- Bi-directional transmission over plastic optical fibre
- Visual based quality inspection
- Control of synchronisation for self-pulsating laser diodes
- High speed optical clock distribution techniques and modelling
- Power line communications systems and their interaction with the ISDN and ASDL system
- ATM system modelling
- Study of the impact of technology on the mobile communications market in Europe
- Efficient dynamic reflection architecture for Java
- High-level low-power real time image processing structures for VLSI CMOS implementation
- Applications of liquid crystals in optoelectronics
- Factors impacting on the development of companies in the software industry
- Antenna and front-end design for a flexible software radio system with advanced self-organising networking capabilities.

School of Control Systems and Electrical Engineering
Academic disciplines:

Electrical Engineering
Power Systems
Control Engineering

Head of School: Dr Jonathan Fisher
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f: +353 1 402 3999
e: jonathan.fisher@dit.ie

Current research areas:

- Inverter modulation techniques and power line harmonic filtering
- Development of computer based tracking systems with links to process control systems

- Non-collision fuel related car fires
- Power quality analysis impact on power system operation
- System identification of processes with significant time delays, compensation of such process
- Computer based tracking system linked to the process control system for traceability
- Development of a simulation package for process (pilot) plant design
- Use of non-invasive scanning/control mechanisms to assist the disabled
- Development of a non-contract PC keyboard emulator
- Acquisition and analysis of physiological signals
- Development of an electronic patient record based on CBN TC standards
- Acquisition of data from clinical analysers and vital signs monitors
- Improvement of discrimination in speeds signals
- Use of DSP Systems for use in control and instrumentation
- Voice gender normalisation for improved speech compression
- DSP algorithm development for independent component analysis of music
- DSP algorithm development for DNA music applications
- Development of special purpose instruments and embedded control systems
- Identification and control of non-linear systems using neural networks
- Networking of embedded systems

School of Mathematics, Science & General Studies

Head of School: Mr Derry Cotter
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Current research areas:
- Investigation into reed bed/sewage treatment technologies
- Rainwater harvesting techniques
- Organic composting processes & indicator species
- Development of a computer based system for student assessment in mathematics and other subjects

Computing & Information Technology
Academic disciplines:

Applied Computing
Engineering Computation
Computer Applications
Technical Programming
Computer Aided Design

Head: Mr John Turner
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Current research areas:
- Cost control system for the Irish construction industry
- Hydrological analysis of hurricane Charlie
- Catchment modelling systems
- Estimation of unit hydrograph from river runoff data
- Applications of GIS to environmental engineering
- Automated weather stations
- Automated river gauging
- Application of mathematical models to environmental engineering
- Use of eCommerce by SMEs in Ireland
- Web based database interrogation
- Web based commercial information systems
- Remote sensing of soil characteristics & behaviour
- Multi-dropped TCP/IP serial connections
- The implementation of distributed systems across the internet
- Performance of distributed object models
- Re-use architectures for engineering education software
- HCI design in computer based training environment
- Use of active server pages to create dynamic web pages with data-base interaction

Department of Transport Engineering

Academic disciplines:

Transport Management

Transport Engineering

Acting Head of Department:

Mr Tom Corrigan

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Current research areas:

- Investigation of human factors in aviation
- Traffic speed indicators
- Continuous variable transmission systems

Department of Applied Technology

Academic disciplines:

Engineering Trades

Maintenance Technology

Head of Department: Mr John Lawlor

t: +353 1 402 3626

f: +353 1 402 3733

Current research areas:

- Industry education collaboration
- Needs analysis for maintenance technology
- Surface technology investigation
- Investigation of the effects of repetitive impacts on materials
- Software development program for optimum central design
- Iron removal & sterilisation of drinking water
- Finite element analysis
- Solid modeling.

Centres

Timber Technology Centre

Contact: Mr David Kirk

41, Dominick Street Lower, Dublin 1

t: +353 1 872 9020   *f:* +353 1 872 9126   *e:* dkirk@tdc.ie

The National Satellite Services Centre

Contact: Dr Ciaran O' Driscoll or Ms Gráinne Moloney

17 Herbert Street, Dublin 2

t: +353 1 661 1940

National Maintenance Centre

Contact: Mr Aiden Murphy

Dominick Court, 41 Lower Dominick Street

Dublin 1

t: +353 1 872 9084

The Applied Optoelectronics Centre

Contact: Dr Gerard Farrell or Mr Thomas Frier

DIT Kevin Street

Dublin 8

t: +353 1 402 4577/4659   *f:* +353 1 478 3631

Industrial Control Centre

Contact: Manager

DIT Kevin Street

Dublin 8

t: +353 1 402 4556   *f:* +353 1 402 4996

Applied Technology Services

Contact: Mr Enda Hogan

Dominick Court, 41 Lower Dominick Street

Dublin 1

t: +353 1 878 3773

FT120 MSc in Applied Computing for Technologists

This programme is a one-year full-time course leading to a Master of Science Degree. It is specifically aimed at candidates holding a professional qualification or equivalent in the Engineering or related disciplines. The course is aimed at providing graduates with a high level of applied computing skills. The successful graduates will be able to apply and develop these technologies successfully in their own professional areas.

Course Outline

There are six taught modules:

- Operating systems, networks and communications (10 Credits)
- Software engineering (10 Credits)
- Information systems (10 Credits)
- Numerical methods (10 Credits)
- Computer aided design (10 Credits)
- Image processing and graphics (10 Credits)
- Students will be required to complete a research dissertation in addition to the six taught modules (30 Credits)

Assessment

There is a formal examination and two assignments in each taught module. The dissertation will be assessed on the research work and the presentation of the thesis.

Duration

One year full time

Commencement

The course will start in the first week of October 2001

Timetable

Students will be required to attend for approximately 18 hours per week and attendance will be required each day.

Location

DIT Bolton Street

Entry Requirements

A minimum second class honours degree (2.2 grade or higher) in engineering or a related discipline.

Award

Graduates are eligible for the award of Master of Science in Applied Computing for Technologists of the Dublin Institute of Technology.

Career Opportunities

This course will provide engineers and technologists with a strategic understanding of applied computing. It will equip the successful graduate for a career as a computing specialist in engineering, technology or the computing industry. The graduates of this course have been particularly successful in gaining employment in the IT industry in Ireland.

Closing Date for Applications

15th August 2001

Offer Date

Formal offers for this course will be made up to September. Late applications will only be accepted in exceptional circumstances and subject to the availability of places.

Further Information

The Secretary
Faculty of Engineering
DIT Bolton Street, Dublin 1
t: +353 1 402 4039
f: +353 1 402 3999
e: john.turner@dit.ie

B773 MSc in Applied Computing for Technologists

This programme is a two-year part-time course leading to a Master of Science Degree. It is specifically aimed at candidates holding a professional qualification or equivalent in the Engineering or related disciplines. The course is aimed at providing graduates with a high level of applied computing skills. The successful graduates will be able to apply and develop these technologies successfully in their own professional areas.

Course Outline
There are six taught modules:
- Operating systems, networks and communications (10 Credits)
- Software engineering (10 Credits)
- Information systems (10 Credits)
- Numerical methods (10 Credits)
- Computer aided design (10 Credits)
- Image processing and graphics (10 Credits)
- Students will be required to complete a research dissertation in addition to the six taught modules (30 Credits)

Assessment
There is a formal examination and two assignments in each taught module. The dissertation will be assessed on the research work and the presentation of the thesis.

Duration
Two years part time.

Commencement
The course will start in the first week of October.

Timetable
Students will normally be required to attend for 9 hours per week for formal classes. The first year programme will be delivered on Tuesday and Thursday evenings. The second year of the programme will be delivered on Monday and Wednesday evenings. Students should note that they will be required to attend on other occasions and at other times. Students are advised that they should have access to computer facilities outside of the DIT.

Location
DIT Bolton Street.

Entry Requirements
A minimum second class honours degree (2.2 grade or higher) in Engineering or a related discipline.

Award
Graduates are eligible for the award of Master of Science in Applied Computing for Technologists of the Dublin Institute of Technology.

Career Opportunities
This course will provide engineers and technologists with a strategic understanding of applied computing. It will equip the successful graduate for a career as a computing specialist in engineering, technology or the computing industry. The graduates of this course have been particularly successful in gaining employment in the IT industry in Ireland.

Closing Date for Applications
15th August 2001

Offer Date
Formal offers for this course will be made up to September. Late applications will only be accepted in exceptional circumstances and subject to the availability of places.

Further Information
The Secretary, Faculty of Engineering, DIT Bolton Street, Dublin 1
t: +353 1 402 4039   f: +353 1 402 3999
e: john.turner@dit.ie

FT126 MSc in Engineering Computation

This programme is a one-year full-time course leading to a Master of Science Degree. It is specifically aimed at candidates holding a professional qualification or equivalent in engineering or related disciplines. The course is aimed at providing graduates with a high level of applied computing skills as applied to engineering.

Course Outline

There are six taught modules:

- Operating systems, networks and communications (10 Credits)
- Engineering software design (10 Credits)
- Information systems (10 Credits)
- Numerical methods (10 Credits)
- Engineering design (10 Credits)
- Engineering analysis (10 Credits)
- Students will be required to complete a research dissertation in addition to the six taught modules (30 Credits)

Assessment

There is a formal examination and two assignments in each taught module. The dissertation will be assessed on the research work and the presentation of the thesis.

Duration

One year full-time

Commencement

The course will start in the first week of October 2001

Location

DIT Bolton Street

Entry Requirements

A minimum second class honours degree (2.2 grade or higher) in engineering or a related discipline.

Award

Graduates are eligible for the award of Master of Science in Engineering Computation of the Dublin Institute of Technology.

Career Opportunities

This course will provide engineers and technologists with the opportunity to specialise in the application of computing technology to engineering. It will equip the successful graduate for a career as a computing specialist primarily in engineering, technology and in the computing industry.

Closing Date for Applications

15th August 2001

Offer Date

Formal offers for this course will be made up to September. Late applications will only be accepted in exceptional circumstances and subject to the availability of places.

Further Information

The Secretary
Faculty of Engineering
DIT Bolton Street, Dublin 1
t: +353 1 402 4039
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B774 MSc in Engineering Computation

This programme is a two-year part-time course leading to a Master of Science degree. It is specifically aimed at candidates holding a professional qualification or equivalent in Engineering or related disciplines. The course is aimed at providing graduates with a high level of applied computing skills as applied to engineering.

Course Outline

There are six taught modules:

- Operating systems, networks and communications (10 Credits)
- Engineering software design (10 Credits)
- Information systems (10 Credits)
- Numerical methods (10 Credits)
- Engineering design (10 Credits)
- Engineering analysis (10 Credits)
- Students will be required to complete a research dissertation in addition to the six taught modules (30 Credits)

Assessment

There is a formal examination and two assignments in each taught module. The dissertation will be assessed on the research work and the presentation of the thesis.

Duration

Two years part time

Timetable

Students will normally be required to attend for 9 hours per week for formal classes. The first year programme will be delivered on Tuesday and Thursday evenings. The second year of the programme will be delivered on Monday and Wednesday evenings. Students should note that they will be required to attend on other occasions and/or at other times. Students are advised that they should have access to computer facilities outside of the DIT.

Location

DIT Bolton Street

Entry Requirements

A minimum second class honours degree (2.2 grade or higher) in Engineering or a related discipline.

Award

Graduates are eligible for the award of Master of Science in Engineering Computation of the Dublin Institute of Technology.

Career Opportunities

This course will provide engineers and technologists with the opportunity to specialise in the application of computing technology to engineering. It will equip the successful graduate for a career as a computing specialist primarily in engineering, technology and in the computing industry.

Closing Date for Applications

15th August 2001

Offer Date

Formal offers for this course will be made up to September. Late applications will only be accepted in exceptional circumstances and subject to the availability of places.

Further Information

The Secretary
Faculty of Engineering
DIT Bolton Street, Dublin 1
t: +353 1 402 4039
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Faculty of Science

School of Biological Sciences
School of Chemistry
School of Mathematics, Statistics and Computer Science
School of Physics

Director of Faculty
Dr Matthew Hussey
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Welcome from the Director

Tá céad mile fáilte romhat do mhír Dhámh na hEolaíochta den eolaire iarchéime. Welcome to the Faculty of Science section of the postgraduate prospectus. This faculty comprises the areas of Biological Sciences, Chemistry, Mathematics/Statistics/Computer Science and Physics, and is physically located in DIT Kevin Street, Dublin 8. The faculty provides undergraduate degree and diploma courses in applied sciences - biomedicine, human nutrition, biochemistry and molecular biology, applied chemistry, computer science and software engineering, mathematics and statistics, optometry, applied physics and physics technology - as well as a number of specialist courses at postgraduate diploma and masters degree levels. The faculty also collaborates with other faculties in offering cross-disciplinary courses and programmes.

Within the faculty there is a long and strong tradition of research, with over 90 postgraduate research students and a steady annual output of masters degree and doctoral graduates. There is considerable industrial collaboration involved in the research effort, in which strong emphasis is placed on applications with industrial and commercial potential. But non-commercial and pure research also finds its place. A hallmark of the research in the faculty is the considerable amount of interdisciplinary and inter-institutional collaboration with colleagues in

universities in Ireland, Europe and further afield. It is the mission of the Faculty of Science to develop this teaching and research role, to provide expanded opportunities and world-class facilities for young and not-so-young people to develop careers in science and cognate disciplines and, generally, to contribute to the social and economic well-being of Irish society. In particular it welcomes applications from qualified persons at work, who wish to pursue postgraduate research on a part-time basis. The faculty is host to the Dublin Institute of Technology Optical Characterisation and Spectroscopy Facility, which in 1999 won funding of over £8m in the Higher Education Authority (HEA) programme of Research in Third-Level Institutions, 1999 - 2001. Over the next year a new building will be built to house this facility, in which there will be up to 50 postgraduate student researchers and support staff and a range of advanced resources. (Further information at web page: www.focas.dit.ie). I will be happy to answer your queries on the postgraduate studies you may be considering undertaking, but feel free also to contact directly the appropriate school within the faculty. It is important that you select the most suitable postgraduate studies programme for yourself, whatever institution it is in. I hope you will have the highest success and satisfaction in whatever postgraduate programme you choose, whatever institution you decide to attend.
Le gach dea-mhéin.

Matthew Hussey, Director of the Faculty of Science

School of Biological Sciences
Head of School: Ms Brid Ann Ryan
t: +353 1 402 4562
f: +353 1 402 4995
e: bridann.ryan@dit.ie

The areas of current research effort in biological sciences involve the following themes.

- Anaemia in women from disadvantaged backgrounds in Dublin
- Nutrition: dietary guidelines, food/nutrient trends, food allergy and intolerance
- Pregelatinised and resistant starch in cereal-based products
- Nutritional assessment and supplementation of children with AIDS
- Serologial screening tests in coeliac disease
- Dietary intake and nutrition knowledge among school children
- Iron deficiency anaemia and meat avoidance in female adolescents
- Measurement of trans fatty acids in foods and adipose tissues
- Assessment of intake of trans fatty acids in adults
- Micro-encapsulation of marine oil in the fortification of foods
- Ambulatory measurement of post-prandial lipid metabolism
- Ambulatory blood pressure in hypertensive and normal patients
- Genetic factors in myocardial disease
- Late gene expression of HPVs, tissue culture system for propagation of HPV
- Regulation of ß-desaturase gene expression in mice
- Study of apoptosis and apoptosis-regulating genes in lymphomas
- Haemagglutination
- Role of ß2-glycoprotein in thrombosis
- Antibodies in disease and inflammatory processes
- Biological basis of tolerance in umbilical cord blood transplantation
- Bacterial adhesion to cells
- Airway inflammations in bronchiectasis
- Use of molecular biotechnology in early detection of inflammation in certain diseases and in early diagnosis of colon and cervical cancer
- Acute phase proteins and C1-inhibitors in adult respiratory distress syndrome
- Immunohistochemical studies of carcinoma
- Characterisation of immunocompetent liver cells and their products
- Lipoprotein metabolism
- Sugar enzymology
- Galactose release in ripening fruit and vegetables and its intake in patients with galactosaemia
- Parasitic lice in salmonid species
- Biochemical characterisation of Atlantic salmon and sea trout skin mucous
- Determination of optimum time for salmon and sea trout smolt transfer to the sea
- Delayed effects of pollutants on fish and crustacea
- Properties of human lens epithelial cells

School of Chemistry
Head of School: Dr Noel Russell
t: +353 1 402 4572
f: +353 1 402 4989
e: noel.russell@dit.ie

The areas of current research effort in chemistry involve the following themes.

- Drug analysis, pharmaceutical validation and quality assurance
- Reactions of chlorine with aromatic compounds in atmosphere
- Environmental chemistry: atmospheric gas phase pollutants, contaminants in sea
- Risk assessment of polyaromatic hydrocarbons in urban particulates
- Differential optical absorption spectroscopy to detect atmospheric pollutants
- Reaction of ozone with unsaturated organic compounds
- Contaminants in deep-water shark and other fish
- Toxicity of toxaphene in marine foodstuffs
- Flavour development, carbohydrate enzymology

- Industrial hygiene system for Irish industry with EU-approved methods
- Micro- and nano-sized semiconductor particles for adhesive technology
- Photochemical analysis of semiconductor compounds
- Electrochemical mediators
- Electrical, optical and surface properties of isoindole organic semi conductors
- Metal-leaching processes for precious metal recovery
- Adsorption of precious metals on activated carbon and modified peat
- Electrochemical sensors
- Metallo-cyclodextrins and their derivatives
- Organic synthesis, fungicides and herbicides
- Raman technique for determining organic species in aqueous media
- Pervaporation studies, membranes for separation of organic/solvent components
- Supramolecular chemistry: electron and energy transfer, spectroscopic applications
- Detection of radiolytes in irradiated foodstuffs
- Effects of antibiotics on non-target species

School of Mathematics, Statistics and Computer Science
Head of School: Dr J. Murrough Golden
t: +353 1 402 4610
f: +353 1 402 4994
e: jmgolden@maths1.kst.dit.ie

The research areas of current interest in this school involve the following themes.
- Mathematics: Abelian groups, continuum mechanics, quantum field theory
- Statistics: psychiatric epidemiology
- Computing: assistive technology, distributed systems, legacy systems, medical informatics, IT for strategic management

School of Physics
Head of School: Dr. Vincent Toal
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f: +353 1 402 4988
e: vincent.toal@dit.ie

The areas of current research effort in physics involve the following themes.
- Road traffic noise in Dublin
- Diagnostic use of acoustic emission from temperomandibular joint
- Acoustics of the folk harp
- Imaging electrocardiography, pattern correlation with cardiac disease
- Alternative electrode placement and current pulses for cardiac defibrillation
- Disorders of human muscle mitochondria
- Microspectrophotometry of respiratory pigments
- Automated dark adaptometer
- Analysis of fundus retinogram for prognosis of hypertension
- Structural colour in nature
- Non-destructive testing of pipes with electronic speckle pattern interferometry
- Compact electronic speckle pattern interferometers for industry
- Opto-mechatronic sensors and smart structures
- Self-processing photopolymer films
- Automation and recording of holographic materials and elements
- High dynamic range analogue fibre-optic links
- New techniques in optical signal processing
- In situ spectroscopic studies of electronic processes in fullerene thin films
- Solid state organic materials for laser applications
- Optical monitoring of in situ semiconductor growth processes
- Control of spontaneous emission in semiconductor microcavity structures
- Identification of defect levels using photothermal ionisation spectroscopy

- Rare earth and transition metal defects in triglycine sulphate•
- Development of a coherent radar system and software profiling applications
- Wear resistant surface coating
- Characterisation of the behaviour of the voltage standard

This programme had its first intake in 1995. The course has a hybrid structure of seminars, research papers, presentations and a dissertation. It is designed to develop research skills and knowledge of current issues in Information Technology for Strategic Management. The course has four modules, Research Methods, Discipline Specific, Advanced Research and Research Project/Dissertation. Students attend a series of seminars during the course and are required to write research papers and give presentations at each stage.

Course Outline
- Modern information technology
- Business modelling
- Research methodologies
- Techniques for research paper writing
- IT design methodologies
- Modelling databases
- Networks
- Internet issues
- Security
- Encryption
- Intranets
- Systems analysis
- Software development
- Software engineering methodologies
- Neural networks
- Artificial intelligence applied to business
- Legal issues
- Total software quality
- Dissertation

Location
DIT Kevin Street

Duration
One year full-time

This course is run jointly by the Dublin Institute of Technology, Kevin Street. and University of Dublin, Trinity College. The programme is broadly based and is designed for medical scientists and medical graduates seeking a career in pathology. The course deals with the biological basis of disease and addresses the impact of molecular methods on diagnostic clinical pathology.

Timetable and Amount of Hours

Advanced Seminars: 6 hours per week. Research assignments, paper writing and presentation: 24 hours per week.

Entry Requirements

Honours degree (2.2 grade or higher) in an accepted discipline or equivalent, such as membership of the British Computer Society by examination.

Award

Graduates of the course are eligible for the award of MSc (Computing Science) of the Dublin Institute of Technology.

Career Opportunities

Graduates of the course have enhanced career prospects in the rapidly growing area of IT for Strategic Management.

Closing Date for Applications

8th June 2001

Proposed Interview Dates

June and September 2001

Offer Date

September 2001

Further Information

Mr Kevin O'Donnell

Department of Mathematics, Statistics and Computer Science

Dublin Institute of Technology, Kevin Street, Dublin 8

t: +3531 402 4920

f: +353 1 402 4994

e: kodonnell@maths1.kst.dit.ie

Course Outline

- Advanced biological concepts (including developments in molecular genetics, cell physiology, molecular structure-function relationships, immunology)
- Research methodology
- Biological basis of disease
- Theoretical basis of diagnostic methods
- Laboratory administration
  Units in one of the following:
- Immunohaematology
- Pathophysiology of blood disorders
- Microbial pathogenesis and epidemiology
- Pathobiology of the cell
- Biochemical pathology
- Molecular immunology

- Students undertake a laboratory based research project.

Location

DIT, Kevin St and Trinity College Medical School, St James's Hospital

Assessment

Students are expected to submit a series of essays and one dissertation based on course work. The final examination consists of three written papers. Students must satisfactorily complete their research project.

Duration (Course Commencement)

The course commences in early September. The full-time course extends over one year and the part-time course over two years.

This course is designed to provide a bridge for students who have qualified in science disciplines to the specific requirements of the pharmaceutical and related industries with respect to quality assurance.

Timetable and Amount of Hours

The part-time course involves attendance for two blocks of two week duration and two blocks of one week duration in the first year and one two week and two one week blocks in the second year, involving a total of 300 hours tuition.

Entry Requirements

Honours degree in Biomedical Science at 2:2 level or higher, Part I Fellowship of the Institute of Biomedical Science (IBMS), London. Part II Fellowship of the IBMS, an approved medical degree or equivalent.

Award

Graduates of the course are eligible for the award of MSc (Molecular Pathology) of the University of Dublin, Trinity College.

Career Opportunities

Graduates have the opportunity to take up senior posts in the clinical pathology service, in biomedical industries and research institutes.

Closing Date for Applications

29th June 2001

Proposed Interview Date

Eligible candidates may be interviewed in early July 2001.

Further Information

Dr Tom Scott
School of Biological Sciences
DIT Kevin St, Dublin 8
t: +353-1-402 4747
f: +353-1-402 4995
e: tscott@dit.ie

* Runs jointly with the University of Dublin, Ireland

Course Outline

- Q.A and GMP
- Validation
- Statistics
- Information Technology
- Control of ingredients, products, packaging and end products
- Legal and regulatory matters
- Auditing
- Manufacturing pharmaceuticals
- Separation science
- Advanced chromatography
- Advanced spectroscopy
- Instrumentation and automated analysis
- Pharmaceutical analysis
- Unit processes
- Pharmaceutical formulation
- Pharmacology
- Analytical microbiology
- Industrial microbiology

Location

DIT Kevin Street

Assessment

Written assignments, practical work, written examinations, project

Duration

One year full time or two to four years part time

Timetable

The lecture course is divided into four modules of 40 hours each. Full-time students undertake four modules over two academic terms. Part-time students will undertake four modules over 4 or 8 academic terms. Full-time students will have an average of fourteen contact hours per week comprising lectures, tutorials and practical sessions. Part-time students will have an average of 7 contact hours per week (two evenings). In addition, 10 major in-course assignments must be completed over the duration of the course. Full-time students must complete an industrially based project over the summer term. Part-time students are normally expected to perform the project at their place of employment over two summer terms

Entry Requirements

Honours degree in chemistry or related discipline at 2:2 grade or higher, or equivalent qualification. Applicants for the part-time course should be employed in a relevant industrial sector. Selection may be by interview.

Award

Graduates are eligible for the award of MSc (Pharmaceutical Quality Assurance) of the Dublin Institute of Technology.

Career Opportunities

Graduates of the course are well equipped to take up positions as quality professionals and managers in the pharmaceutical and related industries.

Closing Date for Applications

8th June 2001

Proposed Interview Date

Eligible candidates may be interviewed in the second week of June 2001.

Offer Date

July 2001

Further Information

Dr Anne Greene
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Faculty of Tourism and Food

School of Hospitality Management and Tourism
School of Culinary Arts and Food Technology
School of Food Science and Environmental Health

The Faculty of Tourism and Food is a leader nationally and internationally in Tourism and Food education and research. It has a special atmosphere, highly motivated staff and industrious students which provide a dynamic and exciting environment for the postgraduate researcher who is keen to advance their studies and the frontiers of knowledge in Tourism and Food.

The Faculty of Tourism and Food welcomes applications from postgraduate students who wish to undertake taught programmes or conduct postgraduate research under the supervision of our team of academics.

The detail on the taught programmes in Hospitality Management, Tourism Management and Environmental Health Risk Management is provided in the following pages. Additional information is available on the website at www.dit.ie. Areas of research which have been the subject of in-depth study by Faculty staff are also detailed in the following pages. It is the overall aim of the Faculty to provide a resource for academics, industry, research institutes and other organisations seeking to find and create new knowledge in the fields of Tourism and Food.

The Faculty has two Research Centres: the Tourism Research Centre and the Food Product Development Centre. These Research Centres provide research and development services for commercial companies and other organisations. The Faculty and Centres work closely together, providing a rich, stimulating and dynamic environment for the students to further their research. The Faculty is an active member of a number of major organisations including the World Tourism Organisation (WTO), World Health Organisation (WHO), Council on Hotel, Restaurant and Institute Education (CHRIE Europe and USA), International Association of Hotel Schools (EUHOPA - Europe), Environmental Health Officers Association (EHO), Association Internationale des Experts Scientifiques du Tourisme (AIEST),

European Foundation for Management Development (EFMD), International Hotel and Restaurant Association (IHRA). Faculty staff frequently contribute as visiting lecturers in other Universities such as University College Dublin, NUI Maynooth, University of Paris Sorbonne, France; University of Innsbruck, Austria; University of Perpignon, France; and the University Palma De Mallorca, Spain. The Faculty also offers the taught European Masters in Hospitality Management programme. This course is offered through a network of six European Universities and involves the student studying in at least two of the designated Universities.

Faculty staff frequently present and publish at national and international conferences. Postgraduate students may also participate in these conferences with their supervisors.

Current Research Projects being undertaken in the Faculty of Tourism and Food:

School of Hospitality Management and Tourism

- Urban tourism - attitudinal and behavioural analysis of visitors across selected european cities;
- Development of virtual reality and multimedia walkthroughs for use on the internet;
- Quality management system for use within rural tourism;
- Qualitative indicators for use by management within the tourism-sector;
- Effective destination marketing strategies for the tourism industry;
- Continued professional development and labour force issues in the tourism industry;
- Exploring legal issues in travel and tourism;
- Profiling entrepreneurship in rural tourism;
- Technology mediated learning in tourism;
- Environmental management in yield management destination systems;
- Consumer decision making as a basis for tourism destination selection;

- Implementation of strategic planning in the Irish hospitality industry;
- Development of expert system based analysis software (ESAS) for the hospitality industry;
- Advanced worldwide communications technology and its application to the hospitality industry;
- Critical aspects in operations management in the hotel sector
- Efficient benchmarking measures for management within the hospitality industry.

School of Culinary Arts and Food Technology
- Quality improvement strategies in small and medium sized hotels;
- Food safety in catering industry;
- Occupational health and safety in catering industry;
- Suitability and effectiveness of HAACP in food service industry;
- Developing kitchen design systems;
- An enterprise model for innovative curriculum development in culinary arts;
- Innovative food product development;
- Development of Irish cuisine;
- Dietary improvement through cuisine;
- Production in fresh food products;
- Logistics and design in restaurant food service and production;
- Oenology and innovation in beverages.

School of Food Science and Environmental Health
- The synthesis, characterisation and diagnostic applications of novel biochemically related manganese (II) complexes;
- Application of lactic acid bacteria in the minimal processing of salad vegetables;
- Development of microbial inocula for silage fermentations;
- Modelling the effect of low pre-heating temperatures and cultivate on the textual properties of Irish potatoes;
- The synthesis characterisation and testing of new organo- copper catalysts;

- Recreation opportunities in commercial forestry settings;
- The synthesis, characterisation and biological activity of metal complexes containing amine and pryidine base ligands;
- Development of rapid methods for detecting genetically modified food raw materials;
- Risk assessment and safety management systems within the food industry;
- Risk assessment and safety management systems within the health care sector, incorporating an analysis of accidents and ill health frequency rates, loss and lost time incidents and health and safety attitudes;
- Implementation of the new food hygiene legislation: consequences for the large supermarket;
- Application and evaluation of modified atmosphere packaging in minimally processed selected Irish grown vegetables;
- An investigation of the safety of high risk foods in the delicatessen sector of the Irish catering industry through the application of HAC CCP auditing and microbial predictive modelling;
- Minimal processing of fresh salad vegetables, preservation technology for salad vegetables, and impact of treatment on total product quality;
- Compositional changes in minimally processed Irish vegetables
- Environmental databank through geographical information systems;
- The use of GIS (Geographic Information Systems) in environmental epidemiology;
- A comparative study of French and Irish ecclesistical settlement patterns;
- An assessment of access to upland areas of counties Wicklow and Dublin;
- The changing countryside: an examination of the links between rural tourism and agricultural restructuring in Ireland;
- Intensity of use of waymarked walking routes - A survey of the level of long-distance walking routes in Ireland and a profile of way users;
- Investigation and recording details of ecclesiastical settlement patterns on a historic urban database;

- Development of new manganese containing, low temperature, bleaching catalysts;
- Development of a GIS database to determine vulnerability of soils and landscape to erosion due to amenity usage;
- Organic photocatalysis using poloyoxometalates;
- The effect of harvest and pre-harvest conditions on changes in fish skeletal muscle post mortem;

FT408 (full-time) C408 (part-time)
MSc in Tourism Management

This programme aims to equip participants with the necessary expertise to manage, co-ordinate and plan for the development of tourism in Ireland and abroad. It is primarily aimed at professionals currently employed within the tourism industry. This dynamic programme encourages interaction between academics and industry practitioners from the national and international tourism sector.

Course Outline
- Tourism marketing
- Communications
- Tourism planning and policy
- Tourism law
- Information technology for the tourism industry
- Intercultural studies
- Environment and heritage management planning
- Travel and transport operations management
- Strategic management
- Human resources development for the tourism industry
- Research methods.

The programme enables participants to tailor their own study by providing a range of electives. These include:
- Strategic tourism marketing
- Strategic services management
- Strategic product development.

Location
School of Hospitality Management and Tourism,
Faculty of Tourism and Food, DIT Cathal Brugha Street, Dublin 1

Assessment
The programme is assessed through a range of methods, which includes: project work, group work, assignments, presentations and terminal examinations. In addition, students will be expected to complete a dissertation.

Duration
One year full time or two years part time. Commencing in September.

Timetable & Amount of Hours
The course is run on one day per week for part-time course mode and two days per week for full-time course mode. Contact hours range from 7 to 14 hours per week. In addition, it is envisaged that students would undertake significant self-learning and research.

Entry Requirements
Applicants should possess a primary degree at honours level (2.2 grade or higher) or equivalent. In addition, applicants may be required to complete an admission interview.

Award
Graduates of the programme are eligible for the award of Masters Degree in Tourism Management (MSc in Tourism Management) of the Dublin Institute of Technology.

Career Opportunities
Graduates of this programme will have enhanced career opportunities within the tourism industry. Career paths may include careers in transport, travel agencies, tourism providers/suppliers, self employment, project management, technology management, community development, public sector support, financial institutions and tourism agencies.

Closing Date for Applications
8th June 2001

Proposed Interview Date
Eligible candidates may be interviewed in July/August 2001.

Offer Date
August 2001

Further Information
Dr Sheila Flanagan or Ms Catherine Gorman
School of Hospitality Management and Tourism
Faculty of Tourism and Food
Dublin Institute of Technology
Cathal Brugha Street
Dublin 1
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FT409 (full-time)   C409 (part-time)
MSc in Hospitality Management

This is the first such programme in the Republic of Ireland. The School of Hotel Tourism and Catering Management is Ireland's most established centre for hospitality management and education. It has consistently provided challenging, dynamic and innovative programmes in hospitality management. This programme is aimed at professional managers who wish to develop a strategic perspective while developing their management practice. It provides a challenging curriculum, which offers the participant the opportunity to interact with leading academics, experts from the national and international hospitality sector and peers from within the student body. There will be a focus on the development of interpersonal skills to prepare participants for leadership and effective communication central to management responding to an increasingly competitive and complex global business environment.

Course Outline
- Strategic hospitality marketing
- Hospitality financial management
- International human resource management
- Intercultural studies
- Information technology for the hospitality industry
- Tourism policy
- Strategic hospitality management
- International hospitality law
- Property asset management
- Management science for the hospitality industry
- Integrated management simulation
- Research methods

Participants will also complete an executive mentorship (two weeks) and a dissertation.

Location
School of Hospitality Management and Tourism, Faculty of Tourism and Food, Dublin Institute of Technology Cathal Brugha Street, Dublin 1

Assessment
The programme is assessed through a range of methods, which includes: project work, group work, assignments, presentations and terminal examinations. In addition, students will be expected to complete a dissertation.

Duration
One year full-time, or two years part-time. Commencing in September.

Timetable & Amount of Hours
The course is run one day per week for part-time course mode and two days per week for full-time course mode. Contact hours range from 7 to 14 hours per week. In addition, it is envisaged that students would undertake significant self-learning and research.

Entry Requirements
Applicants should possess an undergraduate degree in hospitality management (2.2 grade or higher) or a related degree at honours classification or equivalent and a minimum of three years experience in the hospitality industry. In addition applicants may be required to complete an admission interview.

Award
Graduates of the programme are eligible for the award of Masters Degree in Hospitality Management (MSc in Hospitality Management) of the Dublin Institute of Technology.

Careers Opportunities

This programme will enhance promotional opportunities and lead to the development of management skills to middle and senior management positions.

Closing Date for Applications

8th June 2001

Proposed Interview Date

Eligible candidates may be interviewed from June to August 2001.

Offer Date

August 2001

Further Information

Mr Dominic Dillane
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This interdisciplinary course will be for graduates who are seeking to update their current knowledge and skills and enhance career opportunities in environmental health management, environmental management, occupational safety and health, food safety and risk management.

Course Outline

- Risk assessment
- Risk management
- Strategic management
- Policy
- Occupational safety and health
- Food safety and hygiene
- The built environment
- Environmental management
- Environmental health

These modules will address the foundation, current thinking and practice of risk management at national, European, and international levels. Emphasis will be placed on risk and impact assessment, toxicology, epidemiology, research methods, strategic management and the quality management. Career interest and specialisation is facilitated by allowing the student to select his or her own study options from a list of case studies and electives.

Location

DIT Cathal Brugha Street

Assessment

Assessment methods will include examinations, assignments, case studies and a dissertation.

Duration

One year full-time or two years part-time. The course commences in September.

Timetable and Amount of Hours

The full-time mode requires attendance for two days per week per academic year. The part-time mode requires attendance for one day per week per academic year.

Entry Requirements

An honours degree (2.2 grade or higher) or equivalent in a Science, Engineering, Technology, Construction, Architecture, Environmental Health or related discipline. Eligible candidates may be interviewed.

Award

Graduates of the course are eligible for the award of MSc in Environmental Health Risk Management of the Dublin Institute of Technology.

Closing Date for Applications

8th June 2001

Proposed Interview Date

Will be arranged by the course tutor.

Offer Date

Will be arranged by the course tutor.

Career Opportunities

Graduates are expected to be employed within manufacturing, technology, public and private sectors food, chemical, environmental and associated industries in a variety of health, hygiene, safety, quality, regulatory, consultancy and related roles.

Further Information

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This interdisciplinary course will be for graduates who are seeking to update their current knowledge and skills and enhance career opportunities in all aspects of Food Safety Management.

Course outline:

- Biotechnology
- Food chemistry
- Food microbiology
- Toxicology
- Nutrition
- Food production technology
- Packaging and distribution
- Risk assessment and management
- Quality systems and food auditing
- Food law
- Consumer affairs.

This course integrates material from several disciplines to achieve a holistic view of Food Safety Management. It will allow the Food Safety professional to address the increasing demand for expertise in this area at national and international level.

Location

DIT Cathal Brugha Street

Assessment

Assessment methods will include examinations, assignments, case studies and a dissertation.

Duration

Two years part-time. The course commences in September 2001.

Timetable and Amount of Hours

The part-time mode requires attendance for one day per week per academic year with occasional field trips of longer duration (some foreign travel may be required).

Entry Requirements

An honours degree (2.2 grade or higher) or equivalent in Science, Engineering, Technology, Food, Environmental Health or related disciplines. Eligible candidates may be interviewed.

Award

Graduates of the course are eligible for the award of MSc in Food Safety Management of the Dublin Institute of Technology.

Closing Date for Applications

8th June 2001

Proposed Interview Date

Will be arranged by the course tutor.

Offer Date

Will be arranged by the course tutor.

Career Opportunities

Graduates are expected to be employed within the manufacturing, technology, public and private sectors food, chemical, environmental and associated industries in a variety of safety, quality, regulatory, consultancy and related roles.

Further Information

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* Subject to validation

Postgraduate Programme in Third Level Learning and Teaching: Postgraduate Certificate, Diploma, Masters

Are you a new lecturer, keen to get started, but a little apprehensive about teaching? Are you an experienced lecturer, wanting to try out some new learning and teaching methods? Are you interested in using more learning technology? Are you interested in exploring your specific areas of interest in learning and teaching e.g. distance learning, problem-based learning, or research in higher education?
This programme is for lecturers in all universities and third level institutions, from all subject disciplines. It is the first Postgraduate programme in the Republic of Ireland exclusively for lecturers; it consists of three part-time modularised courses located in the Learning and Teaching Centre, Directorate of Academic Affairs, DIT.

Course Outline

1. Postgraduate Certificate in Third Level Learning and Teaching
There are two modules:
- Learning and teaching in higher education
- Designing curricula and assessment strategies

2. Postgraduate Diploma in Third Level Learning and Teaching
Four modules will be offered in the academic year:
- Problem-based learning
- Online learning
- Key skills and career management
- Research methods in higher education.

3. Masters (M.A.) in Third Level Learning and Teaching
Participants will carry out an educational research project which combines academic rigour with personal and professional relevance.

Participants will experience three different models of learning in order to be comfortable implementing and adapting these models in their own teaching. The Certificate uses "Experiential Learning", the Diploma uses "Problem-Based Learning" and the Masters (M.A.) uses "Research-Based Learning".

Location
DIT Learning and Teaching Centre, 14 Upper Mount Street, Dublin 2.

Timetable
Participation on these courses involves attendance for a half day a week. The Postgraduate Certificate is on Wednesday mornings 10am-1pm and the Postgraduate Diploma is on Tuesday mornings 10am-1pm. Both are for the full academic year. In addition, participants attend an induction programme.

Entry Requirements
Course specific. Please contact the relevant course coordinator as listed below.

Award
Graduates are eligible for the award of the following (depending on course option taken) of the Dublin Institute of Technology:
Postgraduate Certificate in Third Level Learning and Teaching
Postgraduate Diploma in Third Level Learning and Teaching
Masters (M.A.) in Third Level Learning and Teaching.

Closing Date for Applications
9th April 2001.

Further Information
For further information and an application form, contact the
Programme Administrator:
Mr Michael Flaherty
DIT Learning and Teaching Centre
14 Upper Mount Street
Dublin 2
t: +353 1 402 7875
e: learning.teaching@dit.ie

To discuss the programme after receiving this information, contact the
Postgraduate Certificate Coordinator:
Ms Roisin Donnelly
DIT Learning and Teaching Centre
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or
Postgraduate Diploma and Masters Coordinator:
Ms Terry Barrett
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Different Schools and Departments within the Institute have over the years established close links with industry, commerce and other bodies. As resources became available from the State, the EU or from sponsorship, additional equipment and facilities were developed to provide a better teaching and research service. Specialist staff were taken on, in some cases to work full-time on projects. Some of these specialists have continued to work in areas linked to the research programmes of the Institute which are under the direction of DIT academic staff and also lead towards postgraduate awards where considered appropriate. As these activities developed and became more structured, a number of them have been formally established as DIT Research Centres. This process was greatly facilitated and encouraged as the Dublin Institute of Technology Act (1992) was implemented. This act provided a definite framework and statutory basis for the Institute to become involved in such research, development and consultancy activities. DIT Research Centres have developed rapidly over the past few years since the new legislation became effective. Six of the Centres also have strong financial support from the state agency Enterprise Ireland.

Radiation and Environmental Science Centre

Background

The centre was formally established by DIT in 1995 as a result of successful research ongoing in this area since 1977. Research in this centre is internationally recognised and the centre is one of 4-5 world leaders in the area of radiation carcinogenesis in humans. The centre is also developing novel methods for assessing radiation and chemical damage to other species. The centre employs three core staff and currently has nine registered MPhil and PhD students. The centre has a high international profile and staff are constantly being invited to speak at international cancer and radiation research meetings. The centre has developed techniques for human cell culture to study radiation effects. This expertise in cell culture is now being applied to other research areas.

Activities

The main areas of current research in the Centre and their external supporting agencies are:

- Mechanisms of induction of genomic instability in irradiated cells (Cancer Research Advancement Board contract)
- Possible use of L-Deprenyl as a radioactive ingredient (patent protected project in collaboration with TCD and funded by BioResearch Ireland Ltd.)
- Investigation of low level effects of pollutants in the aqueous environment (International Collaboration Project supported by EU Framework programme)
- Development of methods for predicting smokers at risk from smoking related cancers (Enterprise Ireland funded and private industry)
- Development of methods for culture of economically important invertebrates (Enterprise Ireland funded and private industry)
- Development of methods of predicting the response of human cells to cancer therapies (Enterprise Ireland funded and private industry)

Dr. Carmel Mothersill, the centre's leading researcher, received particular note recently for her work on genomic instability following an article in the *New Scientist*. This work probes at the early mechanisms for human carcinogenesis. The Centre was the secretariat for the 11th International Congress of Radiation Research held in Dublin 1999. There were approximately 1500 delegates present.

EU Concerted Actions

The centre is currently involved in six EU funded concerted action programmes as follows:

- Biomed programme (2)
- Biotech programme
- Agro-industry programme (2) Coordinator of one action on invertebrate culture
- Nuclear fusion safety, coordinator of genomic instability network

Further Information

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DIT Applied Optoelectronics Centre

The DIT Applied Optoelectronics Centre was founded to act as a support mechanism for companies dealing in the areas of optical communications and optoelectronics. In recent years optical components have been integrated with a wide range of electronics products for communications and sensing. Their growing importance and application has fuelled the development of the Applied Optoelectronics Centre (AOC).

Commercial Activities

The Centre's commercial activities include:

- Industrial training courses in optical fibre technology. These courses are held throughout the year and are accredited by FAS.
- Bespoke industrial training in optical communications e.g. DWDM. The Centre can also provide bespoke training in other areas of communications such as SDH, ISDN and RF safety.
  This training is specifically tailored to the client, with full pre and post course evaluation.
- Design and specification of optoelectronic products. This includes optoelectronics products (including assistance with European funding proposals) and Information resources (for example; relevant company listings and activities).
- Research reports on the optical fibre cable market and training market.

Postgraduate Research

The Centre welcomes applications from suitably qualified graduates in engineering and science from Ireland and elsewhere who wish to undertake research leading to an MPhil or PhD. The Centre is well equipped with a variety of sophisticated optical fibre measurement systems and experimental setups. Areas of interest for research within optical communications include:

- Laser diode applications and control
- Novel high bit-rate plastic optical fibre applications for high speed networks
- Optical switching for optical networks.

External Links

The AOC maintains its advanced focus through continued and successful interaction and co-operation with other institutions and industry. Past clients of the AOC have included Motorola, Esat Telecom, Aer Rianta, Indigo, BridgeCom, 3M, Marconi and Lucent.

Special Facilities

The Centre's services are supported by an extensive range of facilities and experience within the School of Electronic and Communications Engineering.

Further Information

Dr Gerald Farrell - Centre Director

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Mr Thomas Freir-Centre Manager

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DIT Centre for Industrial and Engineering Optics

The Laboratory for Holographic Applications has, over the past ten years, built up a facility specialising in optical solutions to engineering problems. The Centre for Industrial and Engineering Optics was recently established to utilise this expertise in order to provide high level technical services to the industrial sector. Many optical systems have been and continue to be developed for a range of non-destructive, non-contact measurement in a variety of industrial applications. The Centre's activities range from applied research and practical problem solving in industry, to strategic research into innovative new materials and techniques.

Activities

Areas of activity include:
- Surface profiling and surface roughness measurement by non-contact optical interference methods
- Electronic speckle pattern interferometry (ESPI) for non-contact measurement of surface displacements for stress/strain analysis and defect detection
- Optical system design and construction
- Innovative photopolymer materials for holographic applications including diffractive optical elements

External Links

The centre is carrying out several European Commission contracts as well as Enterprise Ireland funded research projects and industrial collaborations. The laboratory also has strong research links with the State Optical Institute, St Petersburg, Russia; the University of Liege, Belgium; the University of Alicante, Spain, and the European Commission Joint Research Centre, Ispra, Italy.

Further Information
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National Institute of Transport and Logistics

The National Institute for Transport and Logistics at DIT was established with the support of Forfas in late 1997. It is a national body with International links and cooperations. Its main responsibilities are the provision of training, consultancy and research in transport, logistics and supply chain management tailored to the specific needs of businesses in Ireland. The NITL aims, through its research, to gather, analyse and provide information to aid government decision-making on transport and logistics policy issues. NITL, through its education, training and consultancy services to business, aims to strengthen Ireland's competitive position in a European, and increasingly global, context. The research objectives and course proposals associated with the Institute, including the MSc in Supply Chain Management, are unique in Ireland.

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A359 MSc in Supply Chain Management

People at all levels in organisations require broader perspectives combined with the ability and motivation to manage change. Supply chain management is concerned with the effective management of all aspects of the supply chain. It involves the adoption of a holistic approach to the management of functions such as purchasing, operations, transport and warehousing. To successfully implement supply chain management, the NITL Graduate Development Programme (GDP) provides training and education of a high academic standard and relevant to modern industry. The GDP is aimed at the 'high-flyers' who will be the world-class managers of the future.

Aims

The aim of the GDP is to develop the leaders of change and business improvement in manufacturing, process, transport and logistics service companies. It achieves this through broad-based vocational postgraduate education, providing a thorough understanding of the key elements of logistics, technology, operational management and business, including:

* supply chain management philosophy and operational practice
* capabilities, trends and applications of information technology
* management of operations, including the management of people, quality and change
* business skills

Who should attend

Participants are either degree holders in any discipline (2.2 grade or higher), or equivalent. All are expected to have relevant work experience, and to fit the profile of a manager or technical professional needing balanced logistics, technology, operational management and business capabilities. The GDP is relevant to businesses of every kind and size.

Rationale

Armed with the GDP Masters qualification graduates of this programme will make a significantly enhanced contribution to their organisations. In addition, the GDP recognises that graduate progression to senior management can be accelerated by a broad-based vocational postgraduate programme which develops a thorough understanding of all facets of supply chain management. The structure of the GDP is based around intensive 40 hr modules. The GDP also recognises that for learning to be really effective mechanisms must exist for transfer of knowledge and skills from the classroom environment into the real business environment. There is a strong emphasis on work-based assignments and projects. Finally, module design, delivery and assessment is carried out jointly with partner companies in line with the NITL's guiding principle of partnership. This ensures that all programme modules are based on world-class best practice as well as being relevant to the real needs of companies.

Structure and Format

The GDP is a part-time modular programme designed specifically to meet the needs of busy graduates and other professionals. All modules are of 40 hours duration and can be run on weekdays, weekends or evenings. Each subject is delivered as a discrete module and by putting together a set of these modules, the precise content of an individual's programme is tailored according to their requirements and/or the company's needs. Participants are required to attend a module once every 8 to 12 weeks on average. All modules are delivered by a mix of professional trainers, academics, consultants and practitioners. Modules are categorised into logistics, technology, management skills and business awareness.

Modules Available

The modules on 'Logistics' provide a detailed understanding of all aspects of supply chain management philosophy and operational practice. The 'Technology' modules address the role of technology, in particular IT in facilitating business improvements. The modules on

Management Skills cover all aspects of operational management including quality, project management, production planning and control as well as providing an understanding of the main issues involved in people management. It is imperative that participants appreciate the role of logistics and supply chain management in the context of the overall business. The programme modules on 'Business Awareness' address this requirement. There are currently over twenty modules available. Additional modules are added regularly to meet the requirements of partner companies.

Logistics

- Introduction to supply chain management
- European logistics strategies
- Partnerships in supply chain management
- Outsourcing management
- Purchasing management
- Warehousing and inventory management

Technology

- Information technology
- Management of information systems
- Simulations
- Logistics modelling
- Information technology in supply chains

Management Skills

- Quality management philosophy
- Quality management tools
- Production planning and control
- HR management in supply chain
- Project management
- Health and safety management
- Environmental management
- Management of change

Business Awareness

- Strategic management
- Strategic marketing
- International business logistics
- Financial management fundamentals
- Improving business performance through logistics philosophy

Assessment, Qualifications and Credit Transfer

Module assessment is based on post-module assignments, which are normally submitted within 2 months of the end of a module. In addition, participants are required to complete a major company-based project. As well as providing evidence of participants' understanding of a subject, the assessment process is designed to help them transfer learning back to the workplace, and to provide real benefits to the company. Participants who successfully complete 9 modules and the major project and associated dissertation within 3 years are eligible for an MSc in Supply Chain Management of the Dublin Institute of Technology.

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The Centre for Social and Educational Research (CSER)

The CSER, established in 1997, is a designated research development and policy analysis body dedicated to support the improvement of the quality of life of children and families in Ireland. It aims to achieve this goal through the provision of appropriate research data and information to relevant policy makers and practitioners.

The centre is recognised as a major contributor to the development of social policy, particularly in relation to early childhood education and childcare. The work of the centre is divided into three main strands:

* Early childhood care and education
* Family support
* Residential childcare and juvenile justice.

Transversal themes are social inclusion, equality and access to, and application of, information and communication technologies.

The centre has participated in national policy fora, including:

* the Expert Working Group on Childcare, which reported in 1999;
* the Forum on Early Education, organised by the Minister for Education and Science;
* the National Child Health Conjoint Committee (Parenting Subgroup)
* the Research and Information Group of the National Children's Strategy.

One of the largest projects of the centre, the OMNA-Early Years Training Research Project, functions as technical assistance to the certifying sub-group of the National Childcare Coordinating Committee, informing the development of a training and qualifications framework for early childhood care and education.

The centre has developed international linkages with researchers and practitioners, particularly in the field of early childhood care and education and residential childcare. It has run and participated in EU programmes, such as the Youth for Europe Initiative (1997-1999) and the New Opportunities for Women Programme of the Community EMPLOYMENT Initiatives (1995-1997; 1998-2000).

Research staff are active members of EUROARRCC - the European Association for Research into Residential Childcare. The Executive Director of the centre is the National Research Coordinator of the International Association for the Evaluation of Educational Achievement and the centre has carried out longitudinal research under the IEA Pre-primary Research Programme.

The centre operates research and evaluation consultancy services to NGOs and statutory bodies in relation to a range of issues. Selected research projects are listed below for illustrative purposes:

* Department of Justice, Equality and Law Reform:
* Study of participants in Garda youth diversion projects
* Department of social, community and family affairs
* Supporting parenting project
* ADM Ltd
* Technical Assistance in relation to after-school care national census on childcare (national synthesis report).

Postgraduate Research

The CSER maintains strategic links with postgraduate students within the School of Social Sciences and Legal Studies.

Further Information

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Digital Media Centre

The Digital Media Centre provides a multi-disciplinary environment for research and development applied to Interactive Media (I-Media) and Virtual Reality (VR) technologies and is recognised by Cisco, the world-wide leading company in networking for the Internet, as a centre of excellence. Since opening in 1994 the centre has established a wide client base built on a balance between European collaborations (through the main EU research programmes), and commercial contracts with both indigenous and international companies. Clients of the centre have included Intel, Microsoft, NEC, Cablelink, Ericsson, and many local content developers. The centre also manages and supports the delivery of the MA in Interactive Media (MAIM), which is offered through the Faculty of Applied Arts.

The mission of the research unit of the Digital Media Centre is to investigate and explore current and emerging developments in multimedia, information and communications technologies in new and innovative ways; and to apply these to the benefit of education and industry. The research unit was established in January 1998, with established and experienced researchers from across DIT.

Current Research in the DMC

The Digital Media Centre is involved in a series of projects under the generic title of "Virtual Collaborative Environments". The fundamental areas concerned are:

1. Applications of virtual reality
2. Information and communication technologies in education
3. Applications of virtual reality and virtual environments in education.

1. Applications of Virtual Reality

These projects investigate aspects of virtual reality in tourism, culture and heritage.

* Virtual reality for tourism and heritage/culture
* Speeding the development of VR models
* Applications of immersive virtual reality

* A real-time interactive walkthrough of the virtual National Gallery
* Virtual cities is examining the use of VR to represent cities in the past and present, as well as helping to model the future

2. Information and Communication Technologies in Education

* Electronic management of education
* Distance education
* High speed communications networks in education

3. Virtual Reality and Education

These projects are concerned with the exploration of the use of web-based virtual reality laboratories for both distance and conventional education. Currently research is on-going in virtual laboratories in art, computing and science (mainly physics and chemistry). From this work, it is intended to identify generic techniques to allow a wider, more powerful VR Laboratory 'engine' which can be used in any environment.

Postgraduate Research

Currently, there are postgraduate students studying for higher degrees in:

* Virtual laboratory for art
* Developing tools for fast development of virtual reality models
* Development of an ATM system model that includes a wireless channel simulation

Further Information

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Contact Persons for Postgraduate Studies

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