2000 - 2001: Postgraduate Prospectus

Dublin Institute of Technology

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Dublin Institute of Technology

DIT Publications

2000 - 2001: Postgraduate Prospectus

Dublin Institute of Technology

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Postgraduate Prospectus
2000/2001

The Library,
Dublin Institute of Technology
Lr. Kevin Street,
Dublin 8, Ireland
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 are already in employment. They are generally vocationally oriented and have a focus on the needs of industry and 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, and in that way further your career and contribute to the development of the Dublin Institute of Technology.

Brendan Goldsmith
President
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Introduction

The Dublin Institute of Technology has strong academic traditions going back over 100 years. The Institute currently continues to offer a wide range of undergraduate courses at Certificate, Diploma and Degree levels and postgraduate programmes at Postgraduate Diploma, Masters and Doctoral levels. Under the provisions of the Dublin Institute of Technology Act (1992), DIT 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 the Institute 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. The complete regulations for postgraduate study by research are to be found in the booklet ‘Regulations for Postgraduate Study by Research’. Information about individual postgraduate courses may be obtained from the contact persons cited with each course description. Regulations may be obtained from:

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

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, 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 fulfilling 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 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 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.

**International applicants**
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 a grade C or higher in the Cambridge Certificate of Proficiency in English, or equivalent, would indicate adequate proficiency. Such applicants should provide a transcript of the examination results indicating their proficiency in English, when they make 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.

**DIT Library and Information Services**
There are six constituent libraries within the DIT and you are invited to use any or all of them. The libraries are located at Aungier Street, Bolton Street, Cathal Brugha Street, Kevin Street, Mountjoy Square and Rathmines House. Your DIT ID card also serves as your library card. Please check the notices at each library for information on opening hours or check the DIT library Web site at: www.dit.ie/library

The DIT library currently stocks collections in excess of 170,000 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. You 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. Materials may be 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. Information not available within the DIT libraries may be requested via the inter-library loan service. Your library and information service will be a valuable resource for you during your years with DIT. Please feel free to visit any of the libraries and remember that the library staff is 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 Appointment 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 and recent graduates as well as to lectures 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 interfaith 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 up 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 much 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 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 Student's Union.

DIT Student Accommodation Service
The Student Accommodation Service is an information service provided in co-operation with the Student's 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 Student's 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 9:30am and 5:30pm daily 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.

**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.

<table>
<thead>
<tr>
<th>Award</th>
<th>Credit</th>
<th>Normal Period of Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Postgraduate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Certificate-PgC</td>
<td>30</td>
<td>1 Semester</td>
</tr>
<tr>
<td>Postgraduate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diploma-PgD</td>
<td>60</td>
<td>1 Academic Year</td>
</tr>
<tr>
<td>Masters</td>
<td>90</td>
<td>1 Calendar Year</td>
</tr>
</tbody>
</table>
All of the centres of the Institute are located near the city centre and are readily accessible by public transport.

**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 8km 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.

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**The Dublin Institute of Technology consists of 8 centres**

1. **DIT Fitzwilliam House**
   - 30 Upper Pembroke Street, Dublin 2.
   - Telephone: +353 1 402 3000  Fax: +353 1 402 3399

2. **DIT Adelaide Road, Dublin 2.**
   - Telephone: +353 1 402 3000  Fax: +353 1 402 3555

3. **DIT Rathmines Road, Dublin 6.**
   - Telephone: +353 1 402 3000  Fax: +353 1 402 3499

4. **DIT Kevin Street, Dublin 8.**
   - Telephone: +353 1 402 3000  Fax: +353 1 402 4999

5. **DIT Aungier Street, Dublin 2.**
   - Telephone: +353 1 402 3000  Fax: +353 1 402 3003

6. **DIT Cathal Brugha Street, Dublin 1.**
   - Telephone: +353 1 402 3000  Fax: +353 1 402 4499

7. **DIT Bolton Street, Dublin 1.**
   - Telephone: +353 1 402 3000  Fax: +353 1 402 3999

8. **DIT Mountjoy Square, Dublin 1.**
   - Telephone: +353 1 402 3000  Fax: +353 1 402 4299
The information in this booklet is intended to act as a guide to persons seeking admission to the Institute and shall not be deemed to constitute a contract between the Dublin Institute of Technology and an applicant or a third party. The Institute reserves the right to amend, change or delete any programme of study or academic regulation at any time having given due consideration to students who are already enrolled.

References to the requirements of outside professional bodies are not intended to be complete or exhaustive nor intended to be absolutely correct at the time of publication since they are subject to change. Accordingly those interested are advised to make direct contact with the professional bodies concerned to ascertain their up-to-date requirements.

Every effort is made to ensure the accuracy of the information in this publication. However the Institute reserves the right to alter or delete any of the information included at any time and it shall not be bound by any errors or omissions and cannot accept liability in respect thereof.
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
Telephone: +353 1 402 3400 Fax: +353 1 402 3393
email: postgraduate@dit.ie
web: http://www.dit.ie

Applicants will be required to supply copies of their qualifications parchments and may be required to submit a complete record of their academic record. The closing dates for applicants will be on the 28th April 2000. Late applications may be considered.

Applicants from Non-European Union Countries
The Institute is happy to consider applications from 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 with each application. In addition such applicants must provide evidence of proficiency in English. No such application will be accepted from overseas applicants for admission to part-time day or evening courses unless they are resident in the country. It will be necessary for non-EU nationals to comply with Irish immigration requirements.

Fees
Annual fees for DIT postgraduate programmes are made up of two components relating to (i) tuition fees and (ii) capitation/ student services/examination fees. The current fee levels are as follows:

(1) Tuition Fee
Postgraduate Diploma/ MPhil/ PhD by Research £1,070
Postgraduate Course Course Dependent
Overseas Students
Full Time £5,062
Part Time £2,531

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.

(2) Capitation Fees
There is a capitation fee charged to all students. The capitation fee for full-time students for the academic year 1999/2000 was £278. This figure is likely to be increased for the academic year 2000/2001. 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 1999/2000 was £20. The fees for part-time courses quoted in this prospectus include capitation.

Postgraduate Taught Courses 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 £100 for the academic year 1999/2000. Students are advised that the acceptance fee is non-refundable.
Course Fees 1999/2000

The Fees listed below were for the academic year 1999/2000 please enquire as to fees for the year 2000/2001.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Full-Time Cost</th>
<th>Part-Time Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>M552</td>
<td>£920 per year including capitation</td>
<td></td>
</tr>
<tr>
<td>FT361*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A354</td>
<td>£770 per year including capitation</td>
<td></td>
</tr>
<tr>
<td>FT603*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DT305</td>
<td>£1,500 plus capitation</td>
<td></td>
</tr>
<tr>
<td>A318</td>
<td>£570 per year including capitation</td>
<td></td>
</tr>
<tr>
<td>DT320</td>
<td>£2,000 plus capitation</td>
<td></td>
</tr>
<tr>
<td>DT319</td>
<td>£2,000 plus capitation</td>
<td></td>
</tr>
<tr>
<td>FT548</td>
<td>£1,500 plus capitation</td>
<td></td>
</tr>
<tr>
<td>FT549</td>
<td>£1,500 plus capitation</td>
<td></td>
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<tr>
<td>FT550</td>
<td>£1,500 plus capitation</td>
<td></td>
</tr>
<tr>
<td>FT551</td>
<td>£1,500 plus capitation</td>
<td></td>
</tr>
<tr>
<td>DT364*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DT510</td>
<td>£1,070 plus capitation</td>
<td></td>
</tr>
<tr>
<td>DT318</td>
<td>£1,640 plus capitation</td>
<td></td>
</tr>
<tr>
<td>A357</td>
<td>£2,250 per semester plus capitation</td>
<td></td>
</tr>
<tr>
<td>FT118</td>
<td>£2,500 plus capitation</td>
<td></td>
</tr>
<tr>
<td>FT119</td>
<td>£2,500 plus capitation</td>
<td></td>
</tr>
<tr>
<td>B707</td>
<td>£1,270 per year including capitation</td>
<td></td>
</tr>
<tr>
<td>FT120*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B773</td>
<td>£770 per year including capitation</td>
<td></td>
</tr>
<tr>
<td>FT126*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B774</td>
<td>£770 per year plus capitation</td>
<td></td>
</tr>
<tr>
<td>FT227</td>
<td>£1,500 plus capitation</td>
<td></td>
</tr>
<tr>
<td>FT230*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FT231</td>
<td>£2,500 plus capitation</td>
<td></td>
</tr>
<tr>
<td>FT232</td>
<td>£2,700 plus capitation: full-time</td>
<td>£2,000 per year including capitation: part-time</td>
</tr>
</tbody>
</table>

Non EU Fees: Full-Time: £5,062 plus capitation
Part-time: £2,531 per year incl. capitation

* A fee of £650 (including capitation) was charged for these courses for 1999/2000 under the Graduate Skills Conversion Programme. Please enquire as to the arrangements for the academic year 2000/2001.
Postgraduate Research Fees

Full-time Students
Annual Fee £1,070
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 £555
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.

Funding

1. Higher Education Grants
A Student who holds a Higher Education Grant when completing her/his 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 her/his 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 her/his parents or guardians normally reside. Information on eligibility conditions (including closing date) and application forms are available from the appropriate Vocational Education Committee.

3. Seed Funding
The Seed Funding Programme is resourced from the Institute's funds and is aimed especially at assisting staff members initiating research projects. Some £150,000 is made available annually in support of about 50 projects, with a maximum of £5,000 per project. The grant may be used to recruit research assistants, to purchase equipment or to fund essential travel or subsistence costs. In assisting over 400 projects since its inception, this scheme has played a major role in fostering a research ethos within the Institute. The Seed Funding programme is advertised internally in the Institute each year and applications for Seed Funding grants are made in response to this advertisement.

4. Postgraduate Scholarships
The Postgraduate Scholarship scheme was initiated in 1994, when awards were made to 20 postgraduate students. A similar number are now awarded annually.
The scheme is funded from Institute resources and is aimed at assisting participants while increasing the number of postgraduate students in the Institute. A number of places on the scheme are available annually to fund students transferring from the MPhil to the PhD level who do not have external funds. Together with the schemes already mentioned, it has played a major role in fostering the research ethos across the Institute. A call for applications for the studentship under the Postgraduate Scholarship programme is made annually in advertisements in the national press. Enquiries can however be made at any time during the year to:
Mr. Bob Kavanagh
DIT Fitzwilliam House
30 Upper Pembroke Street, Dublin 2
Telephone: +353 1 402 3400 Fax: +353 1 402 3393

5. Irish American Partnership Scholarship
Scholarships funded by the Irish American Partnership and Irish industry in collaboration with Forbairt provide grants of £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, Ireland

6. Forbairt Grants for Basic Research
These grants may be available to applicants with a good honour degree in Engineering or Science and 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 1 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 her/his firm and expertise and facilities of the Institute may be of particular assistance in its investigation and solution.

8. Other Funding Sources
Staff members of the Institute have been successful over the years in attracting research grants from industry, from the Forbairt Applied Research Grant Scheme, from the Forbairt Higher Education Industry Co-operation Programme, from the EU Framework Programme and from a range of other public bodies and private agencies. Advertisements for studentship on such projects are generally made in the national press but enquiries may be made at any time during the year to:
Mr. Bob Kavanagh
DIT Fitzwilliam House
30 Upper Pembroke Street, Dublin 2
Telephone: +353 1 402 3400 Fax: +352 1 402 3393

9. Post-Doctoral Fellowships
A scheme to fund Post-Doctoral 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 but enquiries may also be made at any time during the year to the Office of Graduate Studies and Research.
Research
Research work is recognised as an invaluable means of training a postgraduate student in examining problems and reviewing the literature for guides to solutions. It gives the postgraduate experience in working independently, designing experiments to test theoretical hypotheses, describing thoroughly the results of such experiments, extracting the conclusions from these results and relating these to the fundamental problems. The guiding principle is to develop a comprehensive and critical understanding of the subject under examination in the project of study, as well as perhaps its general features and related issues.

Research and development projects may be carried out in the wide areas of scholarship in which the Institute has relevant expertise. These involve areas of scientific, commercial, industrial, social, professional and artistic scholarship relating to the range of disciplines within the Institute. Interdisciplinary work and collaborative research projects with other educational, research, industry, commercial, professional or governmental organisations in Ireland, in the European Union and further afield, are especially encouraged.

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.

Research has been a significant activity in a number of schools and departments across the Institute over the past 25 years but since 1989 a concerted plan of development of research has been in operation. Emphasis has been placed on development of the following broad strategic areas, based on national priorities as well as undergraduate strengths within the Institute:

- **Environment**
- **Construction and Property**
- **Engineering, Applied Science & Materials**
- **Tourism and Hospitality**
- **Information Technology**
- **Biotechnology**
- **Food**
- **Chemicals and Pharmaceuticals**
- **Business and Finance**
- **Marketing**
- **Applied Communications**
- **Applied Economics/Social Science**
- **Design**
- **Humanities (Music & Drama)**

Within the context of this concerted approach, considerable progress has been made in facilitating members of staff embarking on research and taking on postgraduate students to engage in this work. A strong research ethos has developed and the Institute’s policy is to foster and encourage this in every way possible. Currently there are approx. 200 postgraduate research students and other research assistants in the Institute working principally in areas of science, technology and marketing.
Postgraduate Research Awards Offered
The Institute offers three types of programme, each leading to a different level of award for successful postgraduate research work, as follows:

The Postgraduate Diploma (Research)
The Postgraduate Diploma normally requires the equivalent of one year of research work on a project at an advanced level in a given discipline. A thesis is prepared by the candidate, which is a substantial written report and may include other elements such as models, design, artistic composition, audiovisual or multimedia materials, etc., as required. This type of programme encourages research of an applied nature and aims to be a preliminary exposure to the methodology and practice of research.

The MPhil Degree
The MPhil Degree normally requires the equivalent of up to two year's 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 thesis may encompass models, design, artistic composition, audiovisual and multimedia materials, etc., depending on the discipline involved and the nature of the project. 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 DIT effective from September 1998.

Methods of Entry to Postgraduate Research Registers

Postgraduate Diploma Register
(i) 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 in determining a candidate's acceptability.

MPhil Register
(ii) 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. The work-experience of an applicant may also be relevant in determining acceptability.

The PhD Degree
The PhD Degree normally requires the equivalent of at least three years independent and original research work, and a thesis or an alternative presentation, which makes an important contribution to the existing body of knowledge in the discipline through new discoveries or interpretations. The thesis should show the student's critical ability and her/his capacity to undertake independent research at a high level. In this case also the thesis may encompass models, design, artistic composition, audiovisual and multimedia materials, etc., depending on the discipline involved and the nature of the project.
**Postgraduate Programmes through Research in the Institute.**

<table>
<thead>
<tr>
<th>Title of Award</th>
<th>Direct entry requirement (minimum)</th>
<th>Normal Duration</th>
<th>Final production</th>
</tr>
</thead>
<tbody>
<tr>
<td>Postgraduate Diploma (PgD)</td>
<td>Degree (Pass)</td>
<td>1 year</td>
<td>Thesis</td>
</tr>
<tr>
<td>Masters Degree (MPhil)</td>
<td>Degree (Honours)</td>
<td>2 years</td>
<td>Thesis</td>
</tr>
<tr>
<td>Doctoral Degree (PhD)</td>
<td>Masters degree</td>
<td>3 years</td>
<td>Thesis</td>
</tr>
</tbody>
</table>

**PhD Register**

(iii) To apply for direct entry to the PhD Register an applicant must possess a masters degree 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 for a higher degree, provided she/he can demonstrate aptitude and ability to carry out research work. Such applicants should in the first instance, contact the head of the relevant School/Department to discuss their research experience. Normally such an applicant may in the first instance be admitted to the Postgraduate Diploma Register, or exceptionally to the MPhil Register. Before making formal application it is advisable to contact the School/Department where the applicant may wish to work and to find a prospective research supervisor within the Institute.

This contact will allow a thorough discussion of the proposed research project at an early stage, between the prospective postgraduate student and the prospective supervisor. It will also facilitate discussion of funding arrangements and the availability of laboratory and 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, this discussion will help the prospective supervisor and the head of School/Department to evaluate work-experience which may also meet part of the prerequisites for entry. Through such discussion the applicant may also be assisted in identifying the appropriate postgraduate register for which to apply.
Transfer Between 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 her/his registration to that for 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 to take an MPhil qualifying examination for transfer to the MPhil register.

A postgraduate student, who has worked 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. The Postgraduate Studies Committee makes decisions on transfer applications. 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 appointed by the Graduate 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 Graduate Studies Committee.

Application For Entry To Research Programmes
To apply for entry to any programme, the applicant should complete and return Form PGR 1A, Application for Registration for Postgraduate Study obtainable from:
Office of Graduate Studies and Research
DIT Fitzwilliam House
30 Upper Pembroke Street
Dublin 2, Ireland
Telephone: +353 1 402 3400 Fax: +353 1 402 3393
email: postgraduate@dit.ie
website: www.dit.ie

Applicants from outside the Institute are required to include with their application, a complete transcript of their academic record together with copies of their degree, diploma and certificate parchments. 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 of it to each of 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.
Processing of a Research Application
The Postgraduate Studies Committee 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, having regard to 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 decision of the committee. 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 in 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
- to agree a regular schedule of meeting
- to discuss significant problems and potential difficulties.
- to each make six-monthly progress reports on the work to the Postgraduate Studies Committee
- to agree on a decision to apply for transfer to a higher level register
- to agree on a decision to transfer to a lower level register
- to 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.

## Non Semester Courses

### Term 1
- **September 2000**
  - Friday 1
  - Monday 4
  - Monday 18
- **December 2000**
  - Friday 15
  - Saturday 16

- Commencement of session, interviews and enrolments for part-time and evening courses
- Commencement of part-time UG courses in Music and Drama
- 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
- Final class meetings of first term
- Final class meetings for part-time and evening courses in Music and Drama

### Term 2
- **January 2001**
  - Monday 8
- **April 2001**
  - Friday 6

- Classes resume
- Final class meetings of second term

### Term 3
- **April 2001**
  - Monday 23
- **May 2001**
  - Friday 4
  - Tuesday 8

- Classes resume
- Final class meetings of third term
- Examinations commence

## Semesterised Courses

### Semester 1
- **September 2000**
  - Wednesday 13
  - Monday 18
- **January 2001**
  - Monday 8
  - Monday 15

- 1st year students induction programme
- Teaching semester commences
- Study/revision week
- Examinations commence
- Classes are not scheduled on public holidays (viz. 30 October, 17 March, 7 May, 4 June.)

### Semester 2
- **February 2001**
  - Monday 5
- **May 2001**
  - Friday 11
  - Monday 14
  - Monday 21

- Teaching semester commences
- Final class meeting of semester
- Study/revision week
- Examinations commence
- Classes are not scheduled from Monday 18 December to Friday 5 January inclusive or from Monday 9 April to Friday 20 April inclusive.
### Applied Arts

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>M552</td>
<td>MA in Design in Digital Media (part-time course)</td>
</tr>
<tr>
<td>FT361</td>
<td>MA in Interactive Media</td>
</tr>
<tr>
<td>DT319</td>
<td>MA in Journalism</td>
</tr>
<tr>
<td>A354</td>
<td>MA in Media Studies (part-time course)</td>
</tr>
<tr>
<td>FT603</td>
<td>MA in Music Technology</td>
</tr>
<tr>
<td>DT305</td>
<td>MA in Public Relations</td>
</tr>
<tr>
<td>DT320</td>
<td>MA in Film Production</td>
</tr>
<tr>
<td>A318</td>
<td>Postgraduate Diploma in Criminological Studies</td>
</tr>
</tbody>
</table>

### Business

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>FT548</td>
<td>MSc in Marketing (Business to Business)</td>
</tr>
<tr>
<td>FT549</td>
<td>MSc in Marketing (International)</td>
</tr>
<tr>
<td>FT550</td>
<td>MSc in Marketing (Direct Marketing)</td>
</tr>
<tr>
<td>FT551</td>
<td>MSc in Marketing (Service Marketing)</td>
</tr>
<tr>
<td>FT364</td>
<td>Postgraduate Diploma in Internet Systems</td>
</tr>
<tr>
<td>DT510</td>
<td>Diploma in Accounting</td>
</tr>
<tr>
<td>DT318</td>
<td>MSc in Advertising</td>
</tr>
<tr>
<td>A357</td>
<td>MBA</td>
</tr>
</tbody>
</table>

### Built Environment

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT118</td>
<td>MSc in Sustainable Development/ Postgraduate</td>
</tr>
<tr>
<td></td>
<td>Diploma in Sustainable Development</td>
</tr>
<tr>
<td>FT119</td>
<td>MSc in Regional and Local Development/</td>
</tr>
<tr>
<td></td>
<td>Postgraduate Diploma in Regional and Local</td>
</tr>
<tr>
<td></td>
<td>Development</td>
</tr>
<tr>
<td>B707</td>
<td>MSc in Planning and Development (part-time course)</td>
</tr>
<tr>
<td>A357</td>
<td>MBA (Facilities Management)</td>
</tr>
<tr>
<td>A357</td>
<td>MBA (Construction Management)</td>
</tr>
</tbody>
</table>
### Engineering

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT120</td>
<td>MSc in Applied Computing for Technologists</td>
</tr>
<tr>
<td>B773</td>
<td>MSc in Applied Computing for Technologists (part-time course)</td>
</tr>
<tr>
<td>FT126</td>
<td>MSc in Engineering Computation</td>
</tr>
<tr>
<td>B774</td>
<td>MSc in Engineering Computation (part-time course)</td>
</tr>
<tr>
<td>FT227</td>
<td>MSc in Information Technology Engineering *</td>
</tr>
</tbody>
</table>

### Science

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT230</td>
<td>MSc in Computing Science-Information Technology for Strategic Management *</td>
</tr>
<tr>
<td>FT231</td>
<td>MSc in Computing-Distributed Information Systems *</td>
</tr>
<tr>
<td>FT232</td>
<td>MSc in Molecular Pathology (also available as a part-time course) +</td>
</tr>
<tr>
<td>FT233</td>
<td>MSc in Pharmaceutical Quality Assurance (also available as a part-time course)</td>
</tr>
</tbody>
</table>

### Tourism and Food

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT408</td>
<td>MSc in Tourism Management (also available as a part-time course)</td>
</tr>
<tr>
<td>FT409</td>
<td>MSc in Hospitality Management (also available as a part-time course)</td>
</tr>
<tr>
<td>FT494</td>
<td>MSc in Environmental Health Risk Management (also available as a part-time course)</td>
</tr>
</tbody>
</table>

National Institute of Transport and Logistics, MSc in Supply Chain Management

* Subject to Validation
+ Runs jointly with the University of Dublin
∞ Award from the DIT and Staffordshire University jointly *
Faculty of Applied Arts at DIT

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 at DIT is the leading provider of a wide range of innovative, multidisciplinary and professional-level education and research programmes in the creative, visual and performing arts and media, the social sciences, legal studies and languages. Our emphasis is on providing a rigorous intellectual grounding combined with a thorough practical/professional education, and developing a culture of critical and reflective thinking which informs the application of developing technologies. Programmes are offered at both undergraduate and postgraduate levels. Acknowledging the absence of specialised and continuing training and development, the Faculty also offers a range of professional-level short courses in association with RTÉ and the National Film and Television School (UK). Our underlying philosophy is to provide education and training in dynamic and expanding disciplines whilst also acknowledging significant technological and socio-economic changes currently occurring. We aim to prepare students for professional life in Irish and European social, economic and public life. Consequently, our graduates are highly sought after, and successfully employed at all levels within the public and private sector. Facilities include art and design studios, dedicated multimedia, computer graphics and music technology laboratories, state-of-the-art film and television studios and radio broadcasting facilities. A number of specialised research and development centres, including the Digital Media Centre, the Media Production Unit and the Centre for Social and Educational Research have been established. The National Centre for the Education and Training for the Printing and Graphic Communications Industry, a dedicated Photography and Digital Imaging Studio and a Computer Music Lab are also located in the Faculty.

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 masters degrees and postgraduate diplomas 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 forum, an integrated programme of lectures, workshops, seminars and discussions, organised around key themes within the rapidly expanding area of media and the cultural industries (See Below). Masters degrees are also being developed in Legal Studies, Creative Arts Therapies, Criminology and Media Management, and will be offered shortly. 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.

The Faculty of Applied Arts also offers postgraduate studies by research leading to an MPhil or PhD. Students are encouraged to apply in the following areas: social studies, early childhood education and development; media and media technologies; legal studies; applied languages; art and design; performance studies; music composition and music technology.
The Faculty is keen to attract postgraduate work in practice-based research in the visual and performing arts and media. In addition, a strong emphasis is placed on interdisciplinary research. Postgraduate scholarships, with research support modules and seminars, are available.

Forum
The Masters of Arts at DIT programme is committed to providing opportunities to encourage and foster a dialogue between critical theory, creative/professional practice and developments in technology. Advanced digital technologies open up enormous opportunities for linking information/text, images, film, videos, music and audio. However, because technology is changing so rapidly, citizens and workers will be required to be more than technologically knowledgeable and versatile: people need to be intellectually equipped to contribute effectively to society and achieve personal fulfillment. The forum seeks to be a synergy of all these skills. The forum is held annually, usually in January, and provides an enriching and rewarding opportunity for students to meet and discuss with visiting academics and professionals, and fellow postgraduate/masters students. An integrated programme of lectures, workshops, seminars and discussions is organised around key themes within the rapidly expanding area of media, the arts and the cultural industries. Forum themes include: New Technology Applications, Ethics and the Media, and Narrative: Telling Tales.

Faculty Research and Scholarly Activity
Staff are actively involved in research and scholarly activity across all its disciplines, including editing and publishing the Irish Communications Review (www.icr.dit.ie), the Irish Journal of Applied Social Studies and the Irish Journal of Family Law, and membership of Aosdana, the state-sponsored Irish Academy of Creative Artists. A strong emphasis is placed on supporting staff and postgraduates to develop a high profile in creative and professional practice: fine art, design, film-making, multimedia, video/audio production, and music performance and composition, and drama. There is a growing community of postgraduate students pursuing MPhil and PhD research, and several Research Fellows. Developing strong links with industry and European academic institutions is a high priority for the Faculty of Applied Arts. Partnership arrangements have been developed with leading European universities and research institutions under the umbrella of CITE (Centre for International Technology and Education), and the EU Socrates, NOW, KAMP, MAID, Media II, TAP, META, TEMPUS TACIS, Youth for Europe and ADAPT Programmes. As a member of CITE, the Faculty of Applied Arts is involved in numerous EU projects with academic institutions in the UK, France, Netherlands, Spain, Germany, Denmark and Finland, and over 100 industrial companies, design and production groups, focusing on linking creativity with advanced digital technology. The Faculty is also a member of ELIA (European League of Institutes of the Arts) and ICFAD (International Council of Fine Arts Deans).
School-based Research and Scholarly Activity

The research interests of the School of Art, Design and Printing include: design for ageing; design for all abilities; advanced collographic techniques for innovative printmaking; comparison of services available to the design industry in pre-print applications; development of design research unit; modular interactive design/analysis storage system; use of photo CD in pre-print applications; evaluation of water-based environment-friendly inks, photo emulsions, resists and chemicals for printing applications; furniture design and techniques; pre-press technologies; alcohol dampening conversion systems; thematic network in printing and printing technology. There are several postgraduate students, currently working in the area of multi-media, typography, sculpture conservation and educational programmes in Museums of Modern Art. The DIT ADAPT project, Innovation and Re-Engineering in Furniture SMEs, is based in the School. There are international research links and programmes with partners in Portugal, Belgium, Finland, Germany, Holland, Switzerland and UK. The School is a member of IFI, PIRA, and *GATF.

The School of Media has a very active research profile. Research interests of staff include: media policy and institutions; state regulation, freedom of information and censorship; minority language broadcasting, gender, visualisation and multimedia, narrative theory, virtual reality, 3D and 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 post-graduate students working in theoretical and applied areas of media and cultural studies and in developing new applications for media technologies, inter alia: continuo harp, composition and compositional techniques, life and music of Thomas Roseingrave, the piano of Philip Martin, vocal repertoire, music and contemporary theatre and instrumental teaching.

The School of Languages is the largest centre for language teaching in Ireland. Accordingly, key areas of research interest for staff have been languages for specialist purposes, foreign language courseware and syllabus design, second language acquisition, translation theory and methodology, terminology, CALL, lexical acquisition and area studies. Other active areas of research include intercultural studies, the various European literatures, critical and discourse theory and Irish culture.

Research is also being conducted on developing a video server capable of supporting stream management services and a virtual reality art laboratory and information system.

Staff interests within the Conservatory of Music and Drama span a wide range of specialisms, including performance studies, composition, musicology, music and drama education, music technology, music therapy and conducting. There are several post-graduate students working on a wide range of topics, inter alia: continuo harp, composition and compositional techniques, life and music of Thomas Roseingrave, the piano of Philip Martin, vocal repertoire, music and contemporary theatre and instrumental teaching.

The School of Social Science and Legal Studies offers educational and research programmes across a wide range of social, legal, and socio-legal topics, including: social care; early childhood care and education; European, Irish, corporate and commercial law; welfare and family law; criminal law; and criminology. Research interests of staff 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; and law and media. There is a very active research culture within the School; postgraduate students are currently involved in a range of projects, inter alia: longitudinal study of the impact of early experiences on later development, multi-cultural early education, residential care in Ireland, juvenile prostitution, and children as witnesses in court. Research actively encourages the inclusion and participation of children and young people. The Centre for Social and Educational Research (CSER) is directly affiliated to the School.

Centres

The Digital Media Centre, partially funded by Forbairt, is at the forefront of developments in interactive media, virtual reality, e-learning and 3D imaging and is recognised by Cisco, the worldwide leading company in networking for the Internet, as a Centre of Excellence. The DMC has established very close relationships with industry, in the public and private sector, involving projects, consultancy, short professional courses and bureau services. It recently joined the Cisco Networking Academies Programme. The DMC is a recognised leader in Ireland and is rapidly developing an extensive research portfolio; postgraduate students are pursuing research in current and future high-speed data communications technologies and virtual reality art laboratory and information system. The Interactive Multimedia Association of Ireland is based in the Digital Media Centre.

Contact: Mr Charlie Pritchard, Digital Media Centre
Telephone: +353 1 402 3047
email: pritchard@dit.ie
http://www.dmc.dit.ie

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
Telephone: +353 1 402 3108
e-mail: mediaproduction@dit.ie

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.

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
Telephone: +353 1 402 3108
email: mediaproduction@dit.ie
A **Computer Music Lab** is located in the Conservatory of Music and Drama, Rathmines Road. The Lab 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 in the lab. Research projects are being undertaken with colleagues in Ireland and across Europe, with funding from the EU.

**Contact: Dr Paul Mc Gettick**
Conservatory of Music and Drama
Telephone: +353 1 402 3543
email: paul.mcgettick@dit.ie

The Department of Printing, is recognised as the **National Centre for the Education and Training for the Printing and Graphic Communications Industry**. Facilities are at the leading-edge of this dynamic industry, with which strong links have been developed and maintained. There is an increasing emphasis within the Centre on investigating and developing new techniques and processes.

**Contact: Mr Brian Kennedy**
School of Art, Design and Printing
Telephone: +353 1 402 3630

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 now 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**
Telephone: +353 1 402 3049
email: Roy.morre@dit.ie
http://www.dit.ie/aa/telematics/

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

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.
M552
MA in Design in Digital Media

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

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 communication industry, media and promotion co-ordinators, marketing and public relations and related training and education.

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 each year

Further Information
Mr Michael Crotty
School of Art, Design and Printing
DIT Mountjoy Square
Dublin 1, Ireland
Telephone: +353 1 402 4243 Fax: 353 1 402 4297
email: mlcrotty@eircom.net

FT361
MA in Interactive Media

The MA in interactive media is a taught programme, which is aimed at graduates who have an appropriate background in media production, arts, design and/or informatics. The course examines professional practices, management and distribution within the framework of the critical debates and applied research of interactive media. This new field is creating a demand for highly skilled, creative individuals capable of originating, executing, managing and evaluating new initiatives in interactive media. The MA draws together, in student teams, people with a wide range of existing interests and experiences, corresponding to skills and disciplines in the media arts. A one-week forum 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.

Syllabus/Content/Course Outline
The model for curriculum development and delivery is closely related to the production cycle of a typical media production. The division of the three areas represents the core activities of production analysis, conception and content development, asset creation, authoring and distribution in a professional and social context.
Career Opportunities
Graduates will find employment in a wide range of media and multimedia companies.

Further information
Mr. Tony Murray
Digital Media Centre
School of Media
DIT Aungier Street
Dublin 2
Telephone: +353 1 402 3013/3047
Fax: +353 1 402 3293
email: tony.murray@dit.ie
Web: www.dmc.dit.ie/main

The course incorporates three strands:
1. Critical/theoretical
2. Professional practice
3. Production
A particular emphasis is placed on the use of the major production project and dissertation (10,000 - 12,000 words) as a vehicle for challenging, debating and testing ideas that are dealt with throughout the course. The Masters in Interactive Media is primarily a studio-based programme conducted within a research framework. It is informed by lectures, seminars in critical theory, and tutorials.

Duration
48 weeks, full time

Location
DIT Aungier Street

Entry Requirements
Applicants are required to have an honour degree (2.2 grade or higher) in any discipline relevant to media design, production marketing and management and at least one year’s relevant work experience. Selection may be by interview.

Award
Graduates of the course are eligible for the award of MA in Interactive Media of the Dublin Institute of Technology.
DT319
MA in Journalism

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 freelancers or in full-time jobs.

Interviewing
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
Ireland
Telephone: +353 1 402 3276
email: David.Quin@dit.ie

Fax: 353 1 402 3003e
A354
MA in Media Studies

This course provides a theoretical and practical foundation in media studies, developing in students a critical capacity to understand, analyse and evaluate the processes in communications, and their implications for contemporary Irish society. 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

Year 1:
Core module in media studies
Television Drama
Media Policy
Representation in the Media and Film Studies
Practical skills in Radio
Print Journalism
Video and Multimedia Production

Year 2:
Research Methods and Dissertation Module
Media Education
Media
Contemporary Culture
A dissertation to be completed following semester four

Duration
Two years, part-time

Location
DIT Aungier Street and DIT Rathmines

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

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
Dr Brian O’Neill
School of Media
DIT Aungier Street
Dublin 2, Ireland.
Telephone: +353 1 402 3219 Fax: +353 1 402 3003
email: brian.oneill@dit.ie
FT603
MA in Music Technology

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.

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
Telephone: +353 1 402 3000     Fax: +353 1 402 3512
email: paul.mcgettrick@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 recognised as being a centre of excellence 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
- Management
- Research methodology
- Design, print and desktop publishing
- Philosophical, cultural, marketing, legal and political environment
- Communication
- 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
The closing date for applications is Friday, 28th April 2000

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, Ireland.
Telephone: +353 1 402 3095  Fax: +353 1 402 3003
email: fxcarty@indigo.ie
DT 320
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

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
School of Media
DIT Aungier Street
Dublin 2
Ireland
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email: malachy.ohiggins@dit.ie
A318
Postgraduate Diploma in Criminological Studies

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.

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.

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.

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

Further Information
Ms Noirin Hayes
School of Social Science
DIT Rathmines House
Rathmines Road
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Ireland
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Faculty of Business

School of Accounting and Finance
School of Management
School of Marketing
School of Retail and Services Management
Graduate School of Business

The Faculty of Business at DIT is one of Ireland's leading Business Schools providing undergraduate and post graduate 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 post graduate programmes include MSc Degrees in International Marketing/Language, Business to Business Marketing, Service Marketing, and Database Marketing; an MSc in Advertising (in association with the Joint Advertising Education Committee) and Postgraduate Diplomas in Accounting and Internet Systems Development. The Faculty has specialised in the provision of post graduate 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. 20 whole-time research students funded under the Strategic Research & Development 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 2 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) will launch an MBA Programme in the academic year 2000/2001 with innovative specialist options and delivery strategies. Specialisms will include Marketing, Accounting & Finance, Facilities Management and Construction Project Management. Senior industry figures are currently advising on the development of a part-time M.Sc. in Electronic Business aimed at graduates from a range of disciplines and likely to be offered for the first time in 2001.

The Faculty welcomes the opportunity to discuss post graduate research and taught programmes with students from Ireland and abroad. Contact us through the Office of Graduate Studies at Fitzwilliam House, DIT Pembroke Street or Dr. Eddie Rohan at edmund.rohan@dit.ie
FT548
MSc in Marketing (Business to Business)

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 master’s 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.

Further Information
Dr Eddie Rohan
School of Marketing
DIT Mountjoy Square
Dublin 1
Telephone: +353 1 402 4126 Fax: +353 1 402 4298
email: erohan@dit.ie
FT549
MSc in Marketing (International)

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 built on each candidate’s knowledge of statistics and marketing research techniques 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 honors 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.

Further Information
Dr Eddie Rohan
School of Marketing
DIT Mountjoy Square
Dublin 1, Ireland
Telephone: +353 1 402 4126 Fax: +353 1 402 4298
email: erohan@dit.ie
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 master's 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 honors degree (2.2 or higher) in any 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.

Further Information
Dr Eddie Rohan
School of Marketing
DIT Mountjoy Square
Dublin 1
Telephone: +353 1 402 4126 Fax: +353 1 402 4298
e-mail: erohan@dit.ie
FT551
MSc in Marketing (Service Marketing)

This programme is specifically aimed at providing graduates in all 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 build on each candidates knowledge of statistics and marketing research techniques and to equip them to formulate suitable research topics for the master's 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 honors degree (2.2 or higher) in any 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 of these graduates are particularly attractive, given the importance of the services sector.

Further Information
Dr Eddie Rohan
School of Marketing
DIT Mountjoy Square
Dublin 1
Telephone: +353 1 402 4126 Fax: +353 1 402 4298
email: erohan@dit.ie
FT364
Postgraduate Diploma in Internet Systems Development

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

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

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

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

Further Information
Mr Don Ryan
Faculty of Business
DIT Aungier Street
Dublin 2, Ireland.
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email: don.ryan@dit.ie
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 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

Duration
Commences September 2000 and ends May/June 2001

Timetable
Up to 30 hours per week

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

Award
Postgraduate Diploma in Accounting

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

Offer Date
Up to September 2000

Further Information
Mr. Noel O’Brien
Department of Accountancy
Aungier Street
Dublin 2
Telephone: +353 1 402 3097   Fax: +353 1 402 3003
email: noel.obrien@dit.ie
DT318
MSc in Advertising

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, Consumer Behaviour, Advertising Media, Research and Creative and Production Techniques.
- In the second semester, students may specialise in the creative or executive aspects of advertising. The creative stream focuses on Copywriting, Art Direction and Production Management. The executive stream focuses on Marketing, Client Service and Media Planning. 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.
- All students are individually supervised through semester two. Seminars from industry practitioners take place throughout semesters one and two.

Duration
One year full-time in three semesters

Location
DIT Aungier Street

Entry Requirements
2.2 honours degree or higher, or equivalent 3rd level qualification

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 of responsibility 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
Ms Valerie Gannon, Faculty of Business
DIT Aungier Street, Dublin 2
Telephone: +353 1 402 3150 Fax: +353 1 402 3083
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 and 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 Organisation

Semester 2
In the second semester course participants will take the following core subjects:
Law
Strategic Information Systems
Management Control and Decision Making
Finance
In addition, participants will take one course in their specialised stream. These subjects are as follows:
Accounting and Finance Stream:
Taxation
Facilities Management Stream:
Property Development Process
Marketing Stream:
Consumer Behaviour
Construction Project Management Stream:
The Property Development Process

Semesters 3 and 4
In these semesters participants will take five core courses, and five electives chosen from their particular streams. The core courses are as follows:
Economics of Strategy
Human Resources Management
Operations Management
Strategic Management
Business and Society
In addition to the core courses, participants will take five electives, designed to develop their capacity to contribute to their professional areas, together with 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.

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 better or an equivalent recognised professional qualification or should the candidate have at least 7 years relevant experience at a senior level, they will be required to undertake an admission requirement which will consist of an extensive piece of written work 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), and possess 3 years acceptable relevant experience.

Award
Graduates will be eligible for the award of one of the following degrees of the Dublin Institute of Technology
MBA
MBA (Accounting and Finance)
MBA (Facilities Management)
MBA (Marketing)
MBA (Construction Project Management)

Location
DIT Aungier St, DIT Bolton St

Further Information
Dr TF Barrett
Faculty of Business
DIT Aungier St, Dublin 2
Telephone: +353 1 402 3097 Fax: +353 1 402 3290
Faculty of the Built Environment

Department of Surveying and Building Technology
Department of Architecture and Town Planning
School of Construction Trades

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 its general research activities for this important sector of the national economy. In particular the recent development of postgraduate courses will be augmented by the development of the new professional MBA programmes in Facilities Management and Construction Project Management to commence September 2000. Postgraduate research activities have developed with projects currently underway 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 future 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.
• Evolution 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 Rotterdam.
• ‘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.
• Proposed revision of Part ‘M’ of building regulations with regard to housing.
• Sustainable recreational use of natural assets-the development of sustainable indicators.

Examples of future research activities 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 system
• Applications of I.T. technologies to building and urban design processes

If you require further information about any of the taught or research postgraduate/Masters programmes, please feel free to contact either the course leader or School/Department indicated on the following pages. Further information is also available on the website: http://www.dit.ie.
FT118
MSc in Sustainable Development/Postgraduate Diploma in Sustainable Development

This course, which includes 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. Assessment is by non-traditional methods.

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) arising. 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.

Module 3 Information and Systems
Module Synopsis
Sources of information
Introduction to modelling and systems
Geographic Information Systems theory and applications
Techniques for decision making
Conflict resolution

Module 4 Control Mechanisms
Module Synopsis
Legal principles
Irish and EU law - legal basis and forms of environmental legislation
Implementation and enforcement
Remedies
Land use plans and development control
Planning appeals
Pollution control
EMAS, ISO 14001, BATNEEC etc.

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 will be outlined.
The particular location requirements of some of the more potentially polluting industries will be highlighted as well as approaches to the management of some sensitive environments.

**Module 6  An Integrated Approach**

Module Synopsis
An environmental approach and a 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
The module consists of a number of short local site visits, two longer 2/3 day trips within Ireland/UK and a 10 day study tour to mainland Europe.

**Module 8  Computing & 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 & 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**
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 calendar year, mid October 2000-to mid October 2001
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. Approx. 800 contact hours over 12 months. Two days work placement and sixteen and a half hours lectures per week.
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 project in place of 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.

Further Information
Mr Gerry Walker
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Dublin 1, Ireland
Telephone +353 1 402 3652 Fax +353 1 402 3999
email: gerry.walker@dit.ie

Ms Yvonne McGlynn
Faculty of the Built Environment
DIT Bolton Street
Dublin 1, Ireland
Telephone +353 1 402 3612 Fax +353 1 402 3999
email: yvonne.mcglynn@dit.ie

Proposed Interview Date
Mid May

Offer Date
Mid June (Conditional offers)
FT119
MSc in Regional and Local Development/
Postgraduate Diploma in Regional and Local
Development

This course, which includes 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 & 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 I
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 II
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 & 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 & Development Planning, Cost Benefit Analysis RTD evaluation, information and networking assessment, technology acquisition and management.

Module 7 Field Trips
Module Synopsis
The module consists of a number of short local site visits, two longer 2/3 day trips within Ireland/UK and a 10 day study tour to mainland Europe.
Module 8  Computing & 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 & Dissertation
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

Outline Timetable
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

Course Duration, Structure and Outline Timetable
One calendar Year: Mid October 2000 to mid October 2001
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.

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.
Proposed Interview Date
Mid May

Offer Date
Mid June (Conditional offers)

Further Information
Ms Yvonne McGlynn
Faculty of the Built Environment
DIT Bolton Street
Dublin 1
Ireland
Telephone: +353 1 402 3612 Fax: +353 1 402 3999
e-mail: yvonne.mcglynn@dit.ie

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) over two academic years concluding with the submissions 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 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
Application has been made to the Society of Chartered Surveyors/Royal Institution of Chartered Surveyors for recognition of the course as fulfilling the academic requirements for membership of the Society and Institution. The postgraduate diploma course from which the master course has been developed enjoyed this recognition.

Further Information
Ms Yvonne McGlynn, Faculty of the Built Environment, DIT Bolton Street, Dublin 1, Ireland
Telephone: +353 1 402 3612 Fax: +353 1 402 3999
email: yvonne.mcglynn@dit.ie
A357
MBA (Facilities Management)

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 and 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 Organisation

Semester 2
In the second semester course participants will take the following core subjects:
Law
Strategic Information Systems
Management Control and Decision Making
Finance
In addition, participants will take one course in their specialised stream. These subjects are as follows,
Accounting and Finance
Taxation
Facilities Management
Construction Project Management
Marketing
The Property Development Process
Consumer Behaviour

Semesters 3 and 4
In these semesters participants will take five core courses, and five electives chosen from their particular streams. The core courses are as follows:
Economics of Strategy
Human Resources Management
Operations Management
Strategic Management
Business and Society
In addition to the core courses, participants will take five electives, designed to develop their capacity to contribute to their professional areas, together with 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.

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 better or an equivalent recognised professional qualification or should the candidate have at least 7 years relevant experience at a senior level, they will be required to undertake an admission requirement which will consist of an extensive piece of written work 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. A satisfactory result in the Graduate Management Admission Test (GMAT), 3 years acceptable relevant experience.

Award
Graduates will be eligible for the award of one of the following degrees of the Dublin Institute of Technology
MBA
MBA (Accounting and Finance)
MBA (Facilities Management)
MBA (Marketing)
MBA (Construction Project Management)

Location
DIT Aungier St, DIT Bolton St

Further Information
Declan Mc Keown
Faculty of the Built Environment
DIT Bolton St, Dublin 1
Telephone: +353 1 402 3741 Fax: +353 1 402 3999
A357
MBA (Construction Project Management)

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 and 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 Organisation

Semester 2
In the second semester course participants will take the following core subjects:
Law
Strategic Information Systems
Management Control and Decision Making
Finance
In addition, participants will take one course in their specialised stream. These subjects are as follows:
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Taxation
Facilities Management
Construction Project Management
Marketing
The Property Development Process
Consumer Behaviour

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Strategic Management
Business and Society
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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.

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 better or an equivalent recognised professional qualification or should the candidate have at least 7 years relevant experience at a senior level, they will be required to undertake an admission requirement which will consist of an extensive piece of written work 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. A satisfactory result in the Graduate Management Admission Test (GMAT), 3 years acceptable relevant experience.

Award
Graduates will be eligible for the award of one of the following degrees of the Dublin Institute of Technology
MBA
MBA (Accounting and Finance)
MBA (Facilities Management)
MBA (Marketing)
MBA (Construction Project Management)

Location
DIT Aungier St, DIT Bolton St

Further Information
Mr. Nicholas Ingles
Faculty of the Built Environment
DIT Bolton St, Dublin 1
Telephone: +353 1 402 3744 Fax: +353 1 402 3999
Faculty of Engineering

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

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 Strategic Research 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. Don Byrne
Telephone: +353 1 402 3636 Fax: +353 1 402 3999
email: 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:
Telecommunications Engineering
Computer Engineering
Electronic Engineering

Head of School: Mr. Chris Bruce
Telephone: +353 1 402 4576 Fax: +353 1 402 3999
email: chris.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
Telephone: +353 1 402 4551 Fax: +353 1 402 3999
email: jonathan.fisher@dit.ie

**Current research areas:**
- Time-frequency analysis of audio signals: speech coding and compression.
- Time-scale modification of audio signals
- Development of special purpose instruments and embedded control systems
- Networking of embedded systems

School of Mathematics, Science & General Studies

Head of School: Mr. Derry Cotter
Telephone: +353-1-402-3700 Fax: +353-1-402-3999
email: derry.cotter@dit.ie

**Current research areas:**
- Investigation into reed bed/sewage treatment technologies
- Rainwater harvesting techniques
- Organic Composting Processes & indicator species
- Development of 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
Telephone: +353 1 402 3654 Fax: +353 1 402 3999
email: john.turner@dit.ie

**Current research areas:**
- Use of ultrasonic technology for 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
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 database interaction

Department of Transport Engineering
Academic Disciplines:
Transport Management
Transport Engineering

Head of Department:
Acting Head: Mr. Tom Corrigan
Telephone: +353 1 402 3804 Fax: +353 1 402 3999

Centres
Timber Technology Centre
Contact: David Kirk
41, Dominick Street Lower, Dublin 1
Telephone: +353 1 872 9020 Fax: +353 1 872 9126
email: dkirk@tdc.ie

Current research areas:
- Investigation of human factors in Aviation
- Traffic speed indicators
- Continuous variable transmission systems

Department of Engineering Trades
Academic disciplines:
Engineering Trades
Maintenance Technology

Head of Department: Acting Mr. John Lawlor
Telephone: +353 1 402 3626 Fax: +353 1 402 3999

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

Centres
Timber Technology Centre
Contact: David Kirk
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email: dkirk@tdc.ie
The National Satellite Services Centre,
Contact: Mr Mark Davis
DIT Kevin Street
Dublin 8
Telephone: +353 1 402 4652

National Maintenance Centre
Contact: Aiden Murphy
Dominick Court
41 Lower Dominick Street
Dublin 1
Telephone: +353 1 872 9084

The Applied Optoelectronics Centre
Contact: Leeann Rooney
DIT Kevin Street
Dublin 8
Telephone: +353 1 402 4659
Fax: +353 1 475 6669

Industrial Control Centre
Contact: Mr John McGrory
DIT Kevin Street
Dublin 8
Telephone: +353 1 402 4556

Applied Technology Services
Contact: Mr Enda Hogan
Dominick Court
41 Lower Dominick Street
Dublin 1
Telephone: +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

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.

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

Further Information
John Turner
Faculty of Engineering
DIT Bolton Street
Telephone: +353 1 402 3654 Fax: +353 1 402 3999
e-mail: 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 be required to attend for normally 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.

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

Further Information
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Fax: +353 1 402 3999
email: 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

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

Further Information
John Turner
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DIT Bolton Street
Telephone: +353 1 402 3654  Fax: +353 1 402 3999
e-mail: john.turner@dit.ie

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

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

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

Timetable
Students will be required to attend for normally 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.

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.

Further Information
John Turner
Faculty of Engineering
DIT Bolton Street
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FT227
MSc in Information Technology Engineering*

The programme aims to prepare students for a career in the area of Information Technology, with an emphasis on developing skills and knowledge in communications and associated areas such as computing and software design. An emphasis is placed from an engineering viewpoint for all of the course activities.

Entry Requirements
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 Information Technology Engineering* of the Dublin Institute of Technology.

Career Opportunities
Graduates with engineering skills in information technology and communications are in high demand in a variety of private and public organisations in Ireland and throughout Europe.

Course Outline
There are six taught modules:
- Communications Engineering (10 credits)
- Telecommunications Networks and Transmission Systems (10 credits)
- Computer Networks and Data Communications (10 credits)
- Advanced Computer Engineering (10 credits)
- Software Design for Communications Systems (10 credits)
- Project Management (10 credits)
Students will also be required to complete a research dissertation in addition to the six taught modules. (30 credits)

Further Information
Dr Gerald Farrell
Faculty of Engineering
DIT Kevin Street
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Duration
One year full-time

Location
DIT Kevin Street

* Subject to validation
This course will be not be run in the academic year 2000/2001
Faculty of Science

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

Director of Faculty: Dr. Matthew Hussey
Telephone: +353 1 402 3000 Fax: +353 1 402 4998
email: matt.hussey@dit.ie

Welcome from the Director
Tá céad mile fáilte romhat do mhir Dháimh na hÉolaíochta 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/Computing 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 some 90 postgraduate research students and a steady annual output of master's degree and doctoral graduates. There is considerable industrial collaboration involved in the research effort, in which special 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 international-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 planned Dublin Institute of Technology Optical Characterisation and Spectroscopy Facility, which recently won funding of over £8m in the Higher Education Authority (HEA) programme of Research in Third-Level Institutions, 1999 - 2001. Over the next two years 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. 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
Telephone: +353 1 402 4562 Fax: +353 1 402 4995 email: 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
• Serological 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 (B-desaturase gene expression in mice
• Study of apoptosis and apoptosis-regulating genes in lymphomas
• Haemagglutination
• Role of B2-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
• 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
Telephone: +353 1 402 4572 Fax: +353 1 402 4989 email: 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
School of Mathematics, Statistics and Computer Science
Head of School: Dr. J. Murrough Golden
Telephone: +353 1 402 4610    Fax: +353 1 402 4994
email: 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
Telephone: +353 1 402 4559    Fax: +353 1 402 4988
email: 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
FT230
MSc in Computing Science Information Technology for Strategic Management*

This programme had its first intake in 1995. The course has a hybrid structure of seminars, research papers, presentations and a dissertation. It avails of two campuses (DIT Dublin and Staffordshire University, Stafford). 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 technical 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 & Staffordshire University

Duration
One year full time

Timetable & 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 accepted discipline. Membership of the British Computer Society by examination, or accepted equivalent.
Awards Given
Graduates of the course are eligible for the award of MSc (Computing Science)* of the Dublin Institute of Technology and Staffordshire University jointly.

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

Proposed Interview Date
May and September 2000

Offer Date
September 2000

Further Information
Mr Kevin O’Donnell
Department of Mathematics, Statistics & Computer Science
Dublin Institute of Technology
Kevin Street
Dublin 8
Telephone: +353 1 402 4920 Fax: +353 1 402 4994
email: kodonnell@maths1.kst.dit.ie

FT231
MSc in Computing-Distributed Information Systems *

This programme has a hybrid structure of taught modules, research papers and a dissertation. The course avails of two campuses, DIT Dublin and Staffordshire University, Stafford. It is designed to develop academic research skills and to provide students with an understanding of the technology required to design, implement and manage Distributed Information Systems. These Systems appear to a user as a single system although the application programs and the data they process may reside on computers which are physically separated. The course is structured into four modules: Research Methods, Discipline Specific, Advanced Research and Research Project/Dissertation. Students attend a series of seminars and lectures during the course and are required to write technical papers and give presentations at each stage.

Course Outline
• Networks
• Internet Working
• Transmission Media
• Middleware, Distributed Operating Systems
• System Software
• Distributed Databases
• Electronic Mail
• Multimedia

* Subject to validation
• Software Development
• Software Engineering Methodologies
• Security Issues
• Management and Legal Issues
• Project

Location
DIT Kevin St. Dublin 8. & Staffordshire University

Duration
One year full time

Timetable & Amount of Hours
Formal lectures: 6 hours per week. Research assignments, paper writing and presentation: 24 hours per week.

Entry Requirements
Honours degree (2.2 grade or higher) including suitable technical subjects or equivalent and /or suitable experience.

Award
Graduates of the course are eligible for the award of MSc and Staffordshire University jointly.

Career Opportunities
Graduates of the course have enhanced career prospects in the rapidly growing area of Distributed Information Systems.

Proposed Interview Date
May and September 2000

Offer Date
September 2000

Further Information
Dr Bing Wu
School of Mathematics, Statistics and Computer Science
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*Subject to validation
FT232
MSc in Molecular Pathology+

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.

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 and the full-time course extends over one year and the part-time course over two years.

Timetable & 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 Given
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.

Proposed Interview Date
Eligible candidates may be interviewed in early June 2000

Further Information
Dr Tom Scott
School of Biological Sciences
DIT Kevin St
Dublin 8
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email: tscott@dit.ie

+Runs jointly with the University of Dublin, Ireland

FT233
MSc in Pharmaceutical Quality Assurance

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.

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 Given
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.

Proposed Interview Date
Eligible candidates may be interviewed in May/June 2000.

Offer Date
July 2000

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 welcomes applications from Postgraduate students who wish to undertake taught programmes or conduct their postgraduate research studies under the supervision of our team of academics. The detail on the taught programmes Hospitality Management, Tourism Management and Environmental Health Risk Management is provided in the following pages. Areas of research which have been the subject of in-depth study by colleagues in the Faculty are in the following pages classified by School. 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. In addition to the Schools which carry out the academic work of the Faculty there are also two centres the Food Product Development Centre and the Tourism Research Centre. These work on a project basis for commercial companies and other organisations. Faculty and Centre work closely together and this provides a rich, stimulating and dynamic environment for the student to further their research enquiry. The Faculty is an active member of a number of major organisations including the WTO (World Tourism Organisation), WHO (World Health Organisation), CHRIE (Council on Hotel, Restaurant and Institute Education), EUHOPA (International Association of Hotel School), EHO (Environmental Health Officer), AIEST (Association International Experts Scientifiques du Tourism), EFMD (European Foundation for Management Development), International Hotel and Restaurant Association. Colleagues in the Faculty frequently serve as guest lecturers in other Universities UCD, NUI Maynooth, Sorbonne, University of Innsbruck, University of Perpignon and the University Palma De Mallorca. The taught European Hospitality Management programme is a network of six European Universities which involve the student studying in at least two of these locations.

Colleagues in the Faculty frequently publish at national and international conferences and postgraduate students are involved in this activity with their supervisors. In many respects the Faculty is a leader nationally and internationally in Tourism and Food. It has a special atmosphere, highly motivated staff and industrious students which taken together 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. Current Research Projects being undertaken in the Faculty of Tourism and Food

School of Hospitality Management and Tourism
- Travel Motivation an examination of the motivational factors affecting the decision making process of destination selection across selected European Cities.
- Consumer decision making as a basis for Tourism Destination Selection.
- The implementation of Strategic Planning in the Irish Hospitality Industry.
- The development of expert system based analysis software (ESAS) for the hospitality and tourism industry.
- A comparative analysis of advanced worldwide communications technology and their application to the hospitality/tourism industry – Ireland North & South.
- Development of virtual reality and multimedia walkthroughs for use on the Internet.
• Developing qualitative indicators for use by management within the tourism sector in evaluating strategy.
• Developing a quality management system for use within rural tourism.
• Formulating a model appropriate for rural tourism policy formulation.
• Identifying critical aspects to operations management in the hotel and catering sector.
• Developing a prototype hotel based on the use of technology.
• Devising more effective destination marketing strategies for the tourism industry.
• Forecasting trends and visioning the tourism industry.
• Festivals and Events based tourism as a new product available to customers.
• Exploring Continued Professional Development as a means of addressing labour force issues.
• Using innovation and creativity in management as a competitive force.
• Developing an effective strategy for service management within the hospitality industry.
• Exploring legal issues with respect to travel and tourism.
• Identifying critical points in customer care.
• Devising efficient benchmarking measures for management within the hospitality industry.
• Proofing entrepreneurship in Rural Tourism.
• Technology Mediated Learning in Tourism.
• Tourism in the Information Society.
• eCommerce Applications in Tourism.
• Environmental Management in Yield Management Destination Systems.

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 – the level and commitment of input
• Suitability and Effectiveness of HAACP in Food Service Industry
• Education of Hotel and Catering Students in Azerbaijan
• Developing Kitchen Design
• Recognition of the Gap in Training and Education Provisions for Head Chefs
• Preliminary Report on the demand for a Degree in Culinary Arts
• An Enterprise Model for Innovative Curriculum Development in Culinary Arts
• Innovative Food Product Development
• Development of Irish Cuisine
• Dietary Improvement through Cuisine
• Optimisation of Menu Items
• 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 pyridine 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 HACCP 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
• An investigation for the use of access auditing and geographical information systems in the evaluation of accessibility for people with disabilities
• A comparative study of French and Irish ecclesiastical 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 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
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 projects in Ireland and abroad. It is primarily aimed at professionals currently engaged within the tourism industry in its broadest sense. This dynamic programme encourages interaction with academics, industry practitioners from the national and international tourism sector and with peers from within the programme.

Course Outline
- Research Methods
- 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

The programme enables participants to tailor their own study by providing a range of electives. These include:
- Strategic Services Management and the Tourism Sector
  - Cultural and Heritage Tourism
- Marine Tourism
- Sports Tourism
- Languages and Tourism

Location
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

Entry Requirements
Applicants should possess an undergraduate degree at honours classification (2.2 grade or higher) or equivalent. In addition, applicants may be required to complete an admission interview.
Timetable & Amount of Hours
Contact hours amount to approximately 14 hours per week. In addition, it is envisaged that students would undertake significant self-learning and research. Normally contact hours are confined to two days per week which vary from year to year.

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.

Proposed Interview Date
Eligible candidates may be interviewed in July/August 2000

Offer Date
August 2000

Further Information
Dr Sheila Flanagan or
Ms. Catherine Gorman
DIT Cathal Brugha Street
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email: sheila.flanagan@dit.ie and catherine.gorman@dit.ie
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 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
- Research methods
- 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
- Participants will also complete an executive mentorship (two weeks) and a dissertation.

Location
DIT Cathal Brugha Street

Duration
One year full time, or two years part time

Timetable & Amount of Hours
The programme is run for 1 day a week (part-time) and two days a week (full-time)

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 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.

Further Information
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FT494
MSc in Environmental Health Risk Management

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, health 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 & 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 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.

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
Mr Victor Hrymak
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DIT Cathal Brugha Street
Dublin 1, Ireland
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Research Centres

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 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. 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 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

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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 of optoelectronics products (including assistance with European funding proposals) Information resources (for example; relevant company listings and activities).
- Research reports on the optical fibre cable market, 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 MSc 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
• High speed precision optoelectronic conversion
• Simulation of optical communications devices and subsystems
• Novel high bit-rate plastic optical fibre applications for high speed 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, and 3M.

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

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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 and holographic

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.
Transport and Logistics

The National Institute for Transport and Logistics at DIT was established through 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 and logistics tailored to the specific needs of businesses located in Ireland. The NITL aims, through its research, to gather, analyse and provide information to aid government decision-making on logistics and transportation policy issues. The NITL’s Senior Executive Learning Programme (SELP) addresses the requirements of top management and the Executive Development Programme (EDP) in aimed at middle and junior management. But there is also a prime need for the best young brains to provide a fresh, innovative impetus. In support of this need 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

Further Information

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MSc in Supply Chain Management

People at all levels in organisations require broader perspectives combined with the ability and motivation to manage change. Existing management must constantly develop their competencies to manage the business from strategy through implementation to competitive operation. The NITL’s Senior Executive Learning Programme (SELP) addresses the requirements of top management and the Executive Development Programme (EDP) in aimed at middle and junior management. But there is also a prime need for the best young brains to provide a fresh, innovative impetus. In support of this need 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.

Further Information

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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 key 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
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.

For further information regarding the GDP please contact:
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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.
The Centre for Social and Educational Research (CSER)
The Centre for Social and Educational Research (CSER) was established in 1997 as a designated centre for research in the social sciences. The mission statement of the Centre is:
'To promote and to undertake research of an applied nature in the social and educational fields that will ultimately influence the development of policies designed to overcome social exclusion.'

The Centre is recognised as a major contributor to the development of policy in relation to social policy, and in particular, the area of early education and childcare. It is divided into two units:
• Early education and childcare (Early Childhood Research Unit)
• Social care (Social Care Research Unit)

Policy-making Activity
• European/Transnational Level: The CSER is actively involved in a transnational research study on children in residential care with Scotland, Finland and Spain
• Research Consultancy: Research consultancy is provided to organisations in the private, community and voluntary and state sectors. In 1998-99 work was undertaken on behalf of the ESB, Wexford Area Partnership, KWCD Partnership, Area Development Management Ltd., Combat Poverty Agency and the Department of Education and Science. In addition, the Centre has secured contracts for the evaluation of two DIT supported projects: Pathways through Education and the DISC Project

Current Research Projects
• IEA (International Association for the Evaluation of Educational Achievement)
• Pre-Primary Project 1993-1999
• OMNA NOW project [national standard of training and quality employment for people working in the childcare sector] (1997-1999)
• Feasibility Study on Childcare in the DIT (September 1998-Summer 1999)
• Developing a Policy on Play in Local Authorities in Ireland
• A Review of After School Care in the Dublin Area (Summer '99)
• National Census of Childcare
• Transnational Study on Safe Caring in Residential Child Care (1998-1999)
• Violence against Care Workers in Residential Care Settings (Summer-Winter 1999)
• Reminiscence work with the Elderly (Autumn 1999)
• Pathways through Education Evaluation (1998-1999)
• Dublin Inner City Schools (DISC) Project
• Fingal Centre for the Unemployed Active Parenting Programme (1998-1999)
• Trinity House School: Developing an Evaluative Approach (Autumn 1999)
• A Review and Evaluation of the ESB's Schools Education Work (Autumn 1998-Spring 1999), Handbook on Consultation with the Community and Voluntary Sector for the Strategic Policy
• Children in the Courtroom: Psychological and Legal Issues
• Prostitution in Dublin
Postgraduate Research

The Centre welcomes applications for suitably qualified graduates who wish to undertake research leading to an MPhil or PhD. Current research is being conducted on:

• A study of structural and process elements and four year olds cognitive development in Pre-schools and Primary Schools in Ireland
• The Management of Children with Behaviour Problems in Early Years Settings.
• Training Early Years Professionals in Dealing with Diversity: A study of coping with diversity in class, culture, religion, sexual orientation and special needs.
• The Role of Motor Physical Activities in Early Childhood Education

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The Digital Media Centre

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.
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

Information and Communication Technologies in Education
- Electronic Management of Education
- Distance Education
- High Speed Communications Networks in Education

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 post-graduate 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

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