2001

2001 : Dublin Institute of Technology : Full-Time Courses , Undergraduate Prospectus

Dublin Institute of Technology

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undergraduate prospectus entry 2001
full-time courses/cúrsaí lànaimseartha

DUBLIN INSTITUTE OF TECHNOLOGY · INSTITIÚID TEICNEOLAÍOCHTA ÁTHA CLIATH ·
D·I·T

dublin institute of technology

full-time courses / cúrsaí lánaimseartha entry 2001

Disclaimer

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 Institute or any third party.

References to the requirements of outside professional bodies are not intended to be complete or exhaustive 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 amend, change or delete any programme of study or academic regulation at any time having given due consideration to students who are already enrolled. Furthermore, 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.

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Foreword

The Dublin Institute of Technology has a proud tradition of providing education to the highest levels extending back over 100 years. In 1887 the first of our colleges opened its doors at Kevin Street and since then there has been continuous development and expansion both in physical size and in course provision.

In 1992 the Dublin Institute of Technology Act was passed, under the provisions of which we became a single autonomous Higher Education Institution in January 1993. Since then the development within DIT has taken on a fresh impetus and we are now one of the leading providers of education in the state. For many years the Dublin Institute of Technology has been awarding its own Certificates and Diplomas and from 1998 we began awarding our own degrees. This is a major step in the development of the Institute and is a recognition of the high quality of our courses and validation processes.

As part of our development we are now organising the Institute on a Faculty basis and our course information is being produced in six separate booklets, one for each DIT Faculty. All of these developments make the Dublin Institute of Technology an exciting and vibrant place to be for students pursuing third level studies. I hope that you find our publications useful and informative and that the information provided will help you make informed decisions about the course you eventually pursue.

I wish you every success in your studies and hope that your final qualification from the Institute leads to a happy and fruitful career.

Brendan Goldsmith

Dr. Brendan Goldsmith, President

Introduction

The Dublin Institute of Technology offers a wide range of programmes at Certificate, Diploma, Degree and Postgraduate levels and its work and awards have attained national and international recognition by academic, professional, industrial and business organisations. Under the Dublin Institute of Technology Act 1992, it became an autonomous higher education institution in January 1993.

The Institute has played a leading role in the evolution of technical, technological, and business education in Ireland going back over 100 years and it continues to be involved with the latest developments in technology in all areas, maintaining its commitment to industrial, economic and cultural development. The Institute is actively involved in research and development, and meets a growing demand for advisory and consultative services from institutions in Ireland as well as in developing countries. Today the Dublin Institute of Technology has an enrolment of almost 10,000 full-time students pursuing some eighty programmes covering a wide and diverse range of disciplines.

Applicants who require further information should contact the individual schools/departments or:

The Admissions Office,
Dublin Institute of Technology,
Fitzwilliam House,
30 Upper Pembroke Street, Dublin 2.
t: 01 402 3445
f: 01 402 3392
e: admissions@dit.ie
w: http://www.dit.ie

DIT Awards

For many years the Institute has been awarding its own Certificates, Diplomas and Graduate Diplomas. In the case of Degree courses DIT has been participating in a partnership agreement with the University of Dublin whereby that University conferred degree awards in respect of our Higher/Advanced Diploma courses. This Partnership Agreement, however, has been discontinued except for two conjoint awards. Students entering Degree courses in the Institute since September 1998 are eligible for Dublin Institute of Technology Degree awards.

Student Life at DIT

Dublin City, Our Campus

The Institute has seven major centres all located near the city centre and easily accessible by bus and train. Many students find accommodation in the suburbs and can commute speedily using Dublin Bus, DART services and other rail commuter services.

Sports enthusiasts can actively participate in a wide variety of activities, both indoor and outdoor, throughout the year and for the spectator there is always a Sunday afternoon in Croke Park, or the excitement of a soccer or rugby international in Lansdowne Road. There is also a wide choice in the variety of sporting activities on offer each week-end.

Dublin, with a third-level population of over 50,000 students, is a lively and exciting city with excellent services and amenities and your time here as a student will be an enjoyable and fulfilling experience. The Phoenix Park, the Dublin mountains, the canals, St. Stephen's Green, the many shops, restaurants, pubs, discos, concert halls, art galleries, theatres, cinemas and the Temple Bar area (where the USI student centre is located) are just some of the attractions of Dublin.

Library and Information Service

There are six constituent libraries within the Institute located at Aungier Street, Bolton Street, Cathal Brugha Street, Kevin Street, Mountjoy Square and Rathmines House. The student DIT ID card also serves as a library card. Hours of opening vary from library to library and according to the time of year. Please check the notices at each library for further information or check the library web site at http//:www.dit.ie/library.

The 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 libraries, their locations and current status are displayed on the OPAC (On-line Public Access Catalogue) in each centre. The OPAC may also be accessed via the Internet. The telnet address is "library.dit.ie" and the login is "opac". Registered students may borrow from any of the libraries.

Generally the library provides study places, textbooks, monographs, course materials, reference works and journals both to support the courses offered and to facilitate research. Material 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 libraries. Information not available within the library system may be requested via the inter-library loan service. The Library and Information Service will be a valuable resource for you during your time with DIT. Please feel free to visit any of the libraries and remember that the library staff are always willing to help if you are unsure where to find the information you want.

Computer Centre

The Computer Centre at Aungier Street provides a central computing service to the Institute. This service covers both academic and administrative requirements at staff and student levels. The centres are linked together in a Metropolitan Area Network (MAN) in which the Computer Centre forms the hub. This MAN integrates extensive PC and Fileserver based Local Area Networks (LAN) at each site with the central computing systems. The MAN also hosts a DIT-wide voice system. DITNET is also connected to the rest of the world through HEANet and IEunet providing a full range of world-wide Internet services.

Staff and students have access to IBM compatible PCs, Apple MACs, Fileservers, and popular DEC minicomputer systems in an integrated networked environment. The Computer Centre manages the support and development of both the central computing facility, the MAN and the LANs, and also acts in an advisory capacity to the development and integration of local computing and communications facilities. Applications directly provided by the central computing service include: student, finance and library administrative systems and a large variety of academic computing applications.

Restaurant Facilities

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

Careers Service

What you do after college is very important in relation to paving the way for your future career. From the time you enter first year, you will start to develop a range of key skills. In collaboration with academic staff, the careers service aims to enable you to build on this range of skills so that you leave third level education as a rounded graduate with a variety of both technical and work-related skills. The Careers Service is here to help you with this transition from college to working life and provides a programme to ensure that you are capable of devising a strategic career plan, and acquire the necessary skills to ensure your employability.

What is a career strategy?

A career strategy is the formulation of your career aspirations into a flexible plan. It will take into consideration your abilities, personality, interests, lifestyle, ambition as well as the economic climate.

How can we enable you to form a career strategy?

- One to one guidance
- Opportunities to meet with employers e.g. through career fairs, employer presentations and information on employers that regularly recruit graduates
- Careers information-we have a well stocked library located in DIT, 30 Upper Pembroke Street which is open every day from 9.30am-1pm and 2pm-5pm with relevant and up-to-date publications.
- Finally we carry out a careers education programme, through collaborative projects aimed at embedding key skills into the curriculum.
- Stand alone modules, which aim to equip you with job search skills e.g. designing CVs, interview skills, introduction to psychometric testing.

Our Careers Service is staffed by six professional career consultants and two administrative staff. Students who would like to discuss personal career issues should make an appointment by contacting the appropriate person below, or by making an appointment through the Students' Union.

Applied Arts Dave Kilmartin
t: 01 402 7500 e: dave.kilmartin@dit.ie

Built Environment Aisling McHugh
t: 01 402 7501 e: aisling.mchugh@dit.ie

Business Carol Kelehan
t: 01 402 7503 e: carol.kelehan@dit.ie

Engineering Eileen Fitzpatrick
t: 01 402 3351 e: eileen.fitzpatrick@dit.ie

Science Christiane Brennan
t: 01 402 7504 e: christiane.brennan@dit.ie

Tourism & Food Jill Barrett
t: 01 402 7502 e: jill.barrett@dit.ie

Office Administrators:
Margaret Daly
t: 01 402 3441
e: margaret.daly@dit.ie

Louise Dunphy
t: 01 402 3408
e: louise.dunphy@dit.ie
f: 01 402 3390
w: www.dit.ie/admin/careers

Student Counselling Service

The Student Counselling Service is a confidential service staffed by a team of Counselling Psychologists with offices in Fitzwilliam House and in seven of the DIT centres. The Counselling service aims to help students to identify and solve any difficulties, large or small, that might interfere with academic and personal development. Some of the issues that a student might talk to a counsellor about would include social/personal difficulties, financial worries, studies worries, to name but a few. However, you don't have to have enormous problems before you talk to a counsellor. In addition to individual counselling, the service offers a variety of workshops/ training seminars in study skills, stress management, time management, communication skills and other areas. Students can make an appointment by telephoning the central office or by contacting the counsellor directly in the DIT centre.

Chaplaincy

The Chaplaincy is an inter-faith ecumenical service which aims to provide support and care for the personal, social and spiritual lives of students and staff and to contribute to a sense of community in the Institute. There is a Chaplain available in each of the DIT centres and you are welcome to call at any time. The Chaplain is there to listen and to offer assistance in the resolution of any difficulties you may encounter during your time in college. S/he can also help you to access the network of student support services in the Institute.You will find opportunities at the Chaplaincy to get involved in some very worthwhile social justice issues or community building projects. You might like to spend some time working with other students in a peer support group, assisting children in local disadvantaged schools, or contributing to one of the many other projects supported by the Chaplaincy. We look forward to meeting you during your time in college.

Student Services Office

The Student Services Office administers a wide range of services in all of the DIT centres and oversees the distribution and expenditure of the Student Services Fund, which is used to provide finance for welfare and medical services, clubs and societies and the Students' Union.

Student Accommodation Service

The Student Accommodation Service is an information service provided by the Student Services Office in co-operation with the Students' Union. A list is produced showing details of available living accommodation, both self-catering and lodgings. This list may be obtained from the Registration Office or the Students' Union at each centre, or from the central Student Services Office. The selection of the accommodation, and the terms of agreement or contract, is entirely a matter between the individual student and the householder or owner. Prospective students should note that the Institute does not at present have on-campus accommodation. It should also be noted that self-catering accommodation in Dublin is very scarce and expensive. The DIT Accommodation List includes a substantial number of lodgings ("digs") which students might consider, particularly in first year.

Student Assistance Fund

The Student Assistance Fund can provide limited support for **full-time** DIT students who are experiencing temporary or unforeseen financial hardship due to a major change of circumstances, by making grants having regard to the individual's needs. Students will normally be referred to the fund by Student Counsellors, Chaplains, Course Tutors or Students' Union Welfare Officers.

Child Care Support Fund

The Child Care Support Fund is a scheme which may provide a subsidy towards the cost of child care during the academic year to a limited number of **full-time** students who are parents. As these students are usually entitled to some state benefits and allowances, this scheme is means-tested.

Student Personal Accident Insurance

All DIT *full*-time registered students are covered by a Personal Accident Insurance Scheme. Cover is provided for a wide range of benefits (subject to some exclusions) in respect of certified accidents, whether occurring on DIT premises or otherwise.

Student Health Service

Health centres are located in Aungier Street for the South city DIT centres and in Linenhall for the North city DIT centres. The health centres are staffed by nurses whose function is to provide a service for general health treatment and care. Consultation with a doctor in the health centre may be arranged, by appointment, if necessary. This service is free to full-time students. Assistance with the cost of specialist consultations, and with routine dental and ophthalmic treatment is available to needy students. Students should obtain a Medical Card, if they are entitled to one. Some centres have on-site First Aid facilities during normal lecture hours. This service is provided in association with the Order of Malta Ambulance Corps.

Student Activities

Clubs and Societies

Clubs and Societies are an important, even essential, part of life in any third-level Institute, and there are over 150 Clubs and Societies throughout DIT. All students are encouraged to take part in the activities that interest them, for the social as well as the educational benefits. Being active in any club or society is an excellent way of getting to know other students with similar tastes and interests. Becoming involved in the running of clubs and societies can provide good experience in organisation and management, leadership and teamwork.

Sport and Recreation

Each DIT centre has a Sports Council which organises a wide range of sports, including all of the popular team games, as well as a variety of individual sports. In addition, the DIT Sports Committee, which comprises representatives of all the centres, organises clubs which are open to all DIT students, including Athletics, Basketball, Gaelic games, Judo, Swimming and others.

Cultural and Social

Non-sporting activities are also fully catered for in DIT. Each centre has a Cultural and Social Council which organises a wide variety of clubs and societies, many of which are related to specific courses, and provide an extra dimension to the academic content of these courses. In addition, the DIT Cultural and Social Committee, which comprises representatives of all the centres, organises clubs and activities which are open to all DIT students.

DIT 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 college. 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 also provides travel and general information as well as financial and welfare advice. In this respect, the Union's officers work closely with the Institute's Student Services Office, Counselling Service and Chaplains.

Dublin, with a third-level population of over 50,000 students, is a lively and exciting city with **excellent** services and amenities and your time here as a student will be an **enjoyable** and **fulfilling** experience. The Phoenix Park, the Dublin mountains, the canals, St. Stephen's Green, the many shops, restaurants, pubs, discos, concert halls, art galleries, theatres, cinemas and the Temple Bar area (where the USI student centre is located) are just some of the **attractions** of Dublin.

Information on Eligibility and Selection

1. To be eligible for consideration for a course an applicant must possess the minimum entry requirements for that course.

2. Where a course requirement is 2 or 3 honours, grade C3 or better on Higher Level Leaving Certificate papers is needed to meet such a requirement. (Grade HC or better prior to 1992).

3. Where a specific grade is required in a subject (HC3, OB3 etc.) an applicant must achieve that grade or better in order to be eligible for consideration. (H=Higher Level; O=Ordinary Level).

4. In the case of both Higher and Ordinary level Leaving Certificate results, grades lower than D3 are not acceptable for eligibility purposes or for points calculation.

5. For the purpose of meeting minimum entry requirements, results from any number of sittings of the Irish Leaving Certificate may be combined.

6. An applicant's examination score will be calculated by adding together the points scored in the best six subjects in a single sitting of the Irish Leaving Certificate Examination.

7. Matriculation Examinations will not be accepted either for the purpose of meeting minimum entry requirements or for calculating examination scores.

8. In the case of course FT221 weightings will be applied to certain Leaving Certificate subjects. See course entry in Faculty of Engineering booklet.

9. Selection for entry to DIT courses will be determined on the basis of examination score except in the case of courses which involve suitability tests, interviews and other assessment procedures. All suitability tests/interviews/auditions will be carried out during the period March-May each year.

10. Demand usually exceeds the number of places available and therefore examination results better than the minimum requirement are likely to be required.

11. When a number of applicants have the same points score, a random number is attached to the score for each course preference. This will then determine the position of each applicant on the waiting lists for offers.

12. At the time of publication, minimum entry points for DIT courses for 2000 were not available. Intending applicants who require this information should write to the DIT Admissions Office and enclose a stamped addressed envelope.

Suitability Tests/Auditions/Interviews

Applicants for courses FT101 and DT102 may be required to sit a suitability test which will be used to determine which applicants are called to interview. Applicants who do not meet the required standard in the suitability test will not be called for interview and will not be considered further for the course(s) involved. All applicants for courses FT601, DT603, and DT604 are required to attend an audition/interview which will be used to determine which applicants are short-listed for entrance tests.

Failure to attend a test/audition/interview, or failure to meet the required standard will result in an application for the courses involved lapsing and the candidate not being considered further for them. All assessments will take place during the period March-May each year.

Precise information on dates and times of tests/auditions/interviews will be notified directly to each applicant. Because of the large number of applicants and the difficulties in scheduling, applicants should be prepared to attend for assessments at short notice during the above period. The Institute cannot make special arrangements for those who do not respond to, or are not available to deal with, correspondence in respect of tests/interviews.

Submission of Portfolios

Applicants for courses FT259, FT544, FT545, FT546, DT515 and DT516 must submit a portfolio of work to DIT Portland Row, Dublin 1 on either Thursday 8th or Friday 9th March 2001 before 4.40pm each day. A receipt will be issued stating the date the portfolio must be collected.

The portfolio is used to review the applicant's potential to benefit from, and contribute to, the chosen course(s). It should contain approximately 20 pieces of work made by the applicant, in a range of media. This might include paintings, drawings, sketches, collages, photographs, computer outputs. Submit only photographs of three dimensional or delicate work. Do not submit work that has been framed or mounted behind glass. Please arrange the contents of the portfolio in an orderly manner in a secure folder.

Failure to submit a portfolio will render an applicant ineligible for any of the above course. Portfolios received after the above dates will not be reviewed. All portfolios should be securely be securely bound and CLEARLY IDENTIFIED with name, address and CAO application number (if available at time of submission).

No further communication will be issued to applicants regarding the submission of portfolios.

Points system for all courses

The table below shows the number of points awarded to each grade in the Irish Leaving Certificate Examination.

	Higher Level	Grade	Ordinary Level
	100	A1	60
	90	A2	50
	85	B1	45
From	80	B2	40
1992	75	B3	35
	70	C1	30
	65	C2	25
	60	C3	20
	55	D1	15
	50	D2	10
	45	D3	5
	95	A	55
Before	80	B	40
1992	65	C	25
	50	D	10

Scoring System for Assessments

The table below shows the **maximum points** allocated for assessment procedures.

Course Code	Suitability Test	Interview	Portfolio Review	Audition/ Interview
FT101	100	100		
DT102	100	100		
FT259			600	
FT544			600	
FT545			600	
FT546			600	
DT515			600	
DT516			600	
FT601				100
DT603				100
DT604				100

The points achieved by an applicant in any of the above assessments will be added to his/her Leaving Certificate points score.

GC(S)E/A Level Examinations

Entry Requirements

Degree	Certificate/Diploma
3 A Levels **or**	3 A Levels **or**
2 A Levels **plus** 2 GC(S)E	2 A Levels **plus** 2 GC(S)E
	or
	1 A Level **plus** 4 GC(S)E **or**
	6 GC(S)E

Points System

Grade	A Level	AS Level	GC(S)E
A	190	95	55
B	160	80	40
C	130	65	25
D	100	50	10

1. Results from any number of examination sittings may be combined to meet minimum entry requirements.
2. The same subject may be included **only once** in any combination of results (see panel above).
3. All results must be at Grade D or higher.
4. Applicants who meet the minimum entry requirements will be allocated points based on the most favourable of the four combinations of results (see panel above).
5. Points for A level subjects will be calculated on the basis of results achieved in **one academic year.**
6. In addition, applicants must meet minimum entry requirements and full details of the various course requirements are available from the Admissions Office.

International Baccalaureate

The Dublin Institute of Technology will consider applications from candidates presenting the International Baccalaureate Diploma. Applicants who satisfy the minimum requirements and any special course requirements will be assessed on their performance in their three best higher level subjects and will be awarded points as follows:

International Baccalaureate Higher Level grades	Points
7	190
6	160
5	130
4	100

The National Council for Vocational Awards (NCVA)

The Institute allocates a number of places on full-time third level courses leading to a DIT Certificate award for students who successfully complete relevant Post Leaving Certificate courses leading to NCVA awards. Applicants presenting these NCVA awards will be assessed on the basis of the results achieved in each module and points will be awarded on the following basis:

Distinction	3 points
Merit	2 points
Pass	1 point

Places will be allocated using the points score accumulated by each applicant. Applicants who do not obtain one of the NCVA places may still compete on the basis of the Leaving Certificate results in the normal manner. In this context the Applied Leaving Certificate **on its own** does not meet the minimum entry requirements for DIT courses and will not be awarded points. Full details of the scheme are distributed to Guidance Counsellors in all second level schools and are also available from the Admissions Office.

Foundation Level Irish

The Institute will not consider Foundation Level Irish for the purposes of entry requirements or for points.

Foundation Level Mathematics

The Institute will accept Foundation Level Mathematics for the purposes of entry requirements **in respect of the following courses only:**

Code	Title
DT515	Design-Display
DT516	Design Technology
DT517	Media Production

POINTS WILL NOT BE AWARDED

Leaving Certificate Applied Programme

The Leaving Certificate Applied Programme will not meet entry requirements and will not be awarded points.

Leaving Certificate Vocational Programme-Link Modules

The Institute recognises the LCVP for admission purposes and results in the Link Modules element of the programme will be considered as follows:

Distinction	50 points
Merit	40 points
Pass	30 points

The Link Modules may be used as one of the six subjects for overall points calculation but will not be considered as a subject for the purposes of minimum entry requirements.

Re-Admission

Applicants who have unsuccessfully attended a DIT course MAY NOT RE-ENTER THE SAME COURSE save in exceptional circumstances. Such applicants must, in the first instance, contact the Admissions Office at 30 Upper Pembroke Street Dublin 2 and obtain a re-admission application form. Completed forms should be returned to the Admissions Office not later than 31 March each year.

How to apply

Application for admission to 1st year of any Certificate, Diploma, or Degree course must be made directly to:
Central Applications Office,
Tower House,
Eglinton Street,
Galway.
The application form and handbook are available from CAO. The handbook should be read carefully before submitting an application.

Closing Dates

The closing date for receipt of applications at the ordinary fee for EU applicants is: **1st February 2001.** Late applications may be made after this date **but not for any of the following courses**:

Degree	Diploma/Cert
FT101 FT259 FT601	DT102 DT515 DT516
FT544 FT545	DT603
FT546	DT604

The reason for the restriction in the case of the above courses is the inclusion of suitability tests and other assessments as part of the selection process.
Please read the CAO Handbook.

Choosing Your Course

The courses offered by the Dublin Institute of Technology are of their nature vocational and in applying for one or more of them you may be choosing the direction of your career in life as well as in your studies. The Degree, Diploma, or Certificate awarded on the completion of such a course represents not only an attainment in study but a basic qualification for an occupation with its own special requirements and skills. The course which you follow is likely to give a shape to your career and it is important to make a thoughtful choice among those which you think are best suited to your personality and talents.

The Institute offers certain broad fields of studies and within these fields are courses for related occupations, some traditional, some newer, some specialised and others more general. You will find it to your advantage to consider first the field you would like to enter and then make your assessment of the kind of course and occupation most suitable for you. This means informing yourself about career conditions and opportunities and how your own abilities will match them.

Finding out about courses and careers

There are many sources of information, some of a general nature, some more specific which will help give you an insight into different careers and the related third level courses. Examples include:

- DIT Information Day
- Guidance Counsellors, School Principals, Subject Teachers
- Television Programmes/Radio-Programmes
- Books, Pamphlets, Videos in your School or Public Library
- Careers Exhibitions/Seminars
- Leaflets published by FAS
- The publications of professional institutes and societies such as accountancy bodies, engineering institutions, etc.
- Handbooks, Guides and Magazines dealing with careers
- Newspaper Articles
- Open Days

Making up your Mind

As your interest begins to focus in on a number of specific courses and related career areas you should try to do all of the following:

- Study the appropriate full-time faculty booklet which will contain detailed information on the relevant courses
- Talk with your Guidance Counsellor and School Principal
- Talk with your subject teacher e.g. your chemistry teacher about science courses
- Discuss your course and career aspirations with family members and friends
- Make contact with people of your own acquaintance who are already qualified and working in a job area of interest to you and who can talk with you about their own experiences

Deferred Entry

A facility to defer entry for one year is available at present. In order to avail of the facility, an applicant must first be offered a place and then take the following steps:

1. The successful applicant should not accept the place offered or make any payment.

2. S/he must apply in writing to the Admissions Officer, Dublin Institute of Technology, 30 Upper Pembroke Street, Dublin 2, requesting deferral and giving the reason. The CAO offer notice should be included.

3. The written request must be received in the Admissions Office not later than two days before the closing date for acceptance of places in the particular offer round.

If the request for deferral is granted the applicant will be advised in writing and a place on the course involved will be reserved for him/her for the following year.

If the request is not granted, the applicant will be notified in writing and may then accept the original offer for the current year.

Applicants who are granted deferral will be required to:

(a) submit an application for the deferred course to CAO by Ist February in the following year

(b) include on this application the deferred course as the first and only preference

(c) advise the Admissions Office in writing of their new CAO application number by 30 April

Applicants who do not follow the above instructions will have the deferred place cancelled.

Mature Applicants

The Institute welcomes applications from Irish and other EU citizens who will be 23 years of age on 1st January of the proposed year of entry and who wish to be admitted as mature students. Already there are more than 300 mature students attending full-time courses in DIT, contributing greatly to the academic and social life of the Institute. Applicants should apply through CAO on or before 1st February each year. **Late applications will not be considered.** In addition to the CAO application, those wishing to be considered on the basis of maturity must submit a direct entry application form to the DIT Admissions Office. Additional information and application forms are available from the Admissions Office (Tel: 01 402 3445). **Forms must be submitted not later than 1st February each year.**

Mature applicants are not required to meet the normal minimum entry requirements. Consideration for admission to most courses involves an interview and in the case of a small number of courses there will be additional selection procedures including suitability tests, auditions or portfolio submissions.

Applicants with Disabilities

The Dublin Institute of Technology is an equal opportunities institution and welcomes applications from students with disabilities. The Institute will endeavour to ensure that appropriate facilities are available to allow full access and participation for all students

Applicants who feel that they cannot achieve their full academic potential because of a disability or a significant health difficulty should apply directly to the Institute **in addition** to submitting a CAO application. Application forms for students with disabilities are available from the Admissions Office (Tel: 01 402 3445) and the Disability Liaison Officer (Tel: 01 402 7506) and must be submitted **on or before 1st February each year.** Documentation relating to the disability must accompany the application. Applicants are welcome to contact the Disability Liaison Officer to discuss any aspect of their application.

Advanced Entry

Each year a number of applicants, who already possess third-level qualifications, e.g., National Certificates and/or Diplomas, are admitted to the more advanced stages of Diploma and Degree courses. Typically, those who are qualified at Certificate level may transfer to Diploma courses and those who already hold a Diploma may transfer to a Degree course, provided they have an appropriate educational background and level of achievement which is closely related to the standard of the course for which they have applied. Such students **do not** apply through CAO, but should complete a DIT Advanced Entry Application Form, available on request from the Admissions Office.

Applicants from Non-European Union countries

The majority of places on full-time courses are filled by European Union applicants. However, the Institute is happy to consider applications from non-EU nationals who are suitably qualified. Certified translations in English of qualifications and/or examination results must be furnished with each application. Such applicants will also be required to provide evidence of proficiency in English. Application is through the CAO system **on or before 15th December each year** for entry in the following year. The annual tuition fee in 2000 for non-EU nationals was £5557 (euro 7055) and may be reviewed for entry 2001. It will be necessary for non-EU nationals to comply with Irish immigration requirements.

Trade/Craft Applicants

For many of the courses which specify a pass in five subjects in the Leaving Certificate Examination as the entry requirement, the Senior Trade Certificate of the Department of Education and Science with one endorsement in Mathematics or a science subject will satisfy the minimum entry requirement. Students holding this Certificate with three endorsements in academic subjects are eligible for consideration for entry into related degree level courses. Where endorsement subjects are not offered in trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate of the Department of Education and Science is an acceptable equivalent.

Fees

The Department of Education and Science Free Fees Scheme applies to first-time undergraduate students undertaking a full-time course with a minimum duration of two years which is not aided by the European Social Fund. Details of the scheme are available in the Department of Education and Science booklet entitled **Financial Support for Further and Higher Education** and from DIT Centres. **A student who withdraws from a course at any time after enrolment should notify the Faculty Administrator immediately in writing. Failure to do so will jeopardise future eligibility under the Free Fees Scheme.** Where fees are payable the Institute will accept payment in either Punts or Euros.

ESF Training Allowances

ESF (European Social Fund) training allowances may be available to students while they are pursuing certain 1,2, and 3 year courses provided their attendance record and general performance is satisfactory. These allowances may cover tuition fees where appropriate and may also provide for payment of a monthly maintenance allowance to those who are admitted to a course of this type. Applicants should note that the maintenance element of these allowances is subject to a means test and applications for maintenance should be made to local Vocational Education Committees.

ESF training allowances may be available in 2001 for most DIT Certificate/Diploma courses except DT120 and DT604.

Student Regulations

All students are required to observe, in addition to the laws of the State, the regulations of the Institute as amended from time to time by Governing Body.

Registration

1. The application and enrolment dates for courses offered in the Institute shall be as published annually by the Institute.
2. Fees must be paid in full on enrolment and before admission to class or guaranteed by a grant awarding body.
3. Intending students should note the entry requirements for admission to the various courses. Before acceptance of an application for admission to classes or courses, the applicant may be required to attend for interview and the Institute must be satisfied as to his/her ability to benefit from the proposed classes or course. Approval in this respect must be endorsed on the enrolment form by the designated Institute authority. The Institute may require an applicant to pass an entrance test and/or a suitability test before admitting him/her to any class or course.
4. Only in exceptional circumstances and subject to the additional payment of a late fee will applicants be admitted after the enrolment date as referred to in 1.
5. The sole proof of enrolment in any class or course in the Institute is the Bank Giro Receipt or Official Receipt for the class or course fees paid. Lecturers are authorised to refuse admission to classes of students who do not show their Bank Giro Receipt or Official Receipt if requested to do so.
6. In general fees are not refundable except where a class or course does not form. Students who withdraw from a course before its commencement will be entitled to a refund of any amount paid less an administration charge. Students with drawing after the course commences, during the first term or semester only, may be entitled to a partial refund of any tuition fees paid. The student services and examination fee is not refundable after the course has commenced.
7. Students will be issued with an Identity Card annually. For this purpose and for the Institute records students must provide, at their own expense, three copies of a recent photograph (not returnable) of passport type and size. Where Identity Cards have been lost or are no longer usable, the Institute should be informed as soon as possible and three copies of a recent photograph must again be provided as in the case of first enrolment. Students should note that an appropriate charge will be made for replacement of Identity Cards. The Identity Card is the property of the Institute and may be demanded by the Institute or its officers or agents at any time. Students are, therefore, required to carry their Identity Cards with them while in the Institute or whenever they may be required to identify themselves as students of the Institute.
8. The onus is on the student to notify change of address or place of employment as appropriate, to the Faculty Administrator immediately.
9. Academic Council may approve changes to courses and to assessment regulations, including examination regulations, which will come into effect in the following academic year. The relevant students will be given notice of any such changes.
10 A Director, or his/her designate, may change the day and time of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some reason a lecturer cannot attend, classes may be cancelled without notice.
11. No exchange of classes may be made after enrolment without the written consent of the relevant Director.
12. The onus is on the student to notify the Faculty Administrator immediately in writing in the event of their withdrawing from the course for any reason. A student's entitlement to a refund and future entitlement to free fees may be jeopardised if he/she fails to do so. The date of withdrawal from a course will be taken as the date of receipt by the Faculty Administrator of written notification of withdrawal.
13. The Institute reserves the right to correct the fee charged to a student in the event that an incorrect fee is notified as a result of human error, incorrect information being obtained at enrolment or a change in student circumstances which affect the fee due.

Overseas Students

1. Admissions criteria are set out by course. EU students who hold equivalent qualifications are considered on an equal basis to Irish students.
2. Other foreign students must present suitable qualifications which the Institute judges to be equivalent to the required Irish qualifications.
3. No application will be accepted from overseas applicants for admission to part-time day or evening courses unless they are resident in the country.

Student Discipline

1. Students are expected to participate in the Institute activities in a manner conducive to establishing a sound educational atmosphere.
2. Any student engaging in or causing disruption of a legitimate Institute activity may be suspended, by the Director, from the Institute.
3. Students must at all times obey the lawful instructions of lecturers and other members of the Institute staff who are responsible for the maintenance of good order.
4. Infringement of the Student Regulations, misconduct in any of the premises or grounds comprising the Institute or out side of the premises of the Institute may lead to suspension by the Director of the student or students concerned.
5. Students are liable for the cost of repair or replacement of Institute property maliciously or negligently damaged by them.
6. Students are not allowed to smoke in the Institute except in areas designated for smoking.
7. Mobile phones, personal stereos, etc. must be switched off, and may not be used, within classrooms and examination halls.
8. The President reserves the right to expel at any time any student whose conduct is in serious breach of the regulations.
9. Only Institute societies and clubs may advertise in the Institute. Students may only display posters and notices on the designated notice boards with the permission of the relevant Faculty Administrator.
10. Student groups wishing to hold meetings in the Institute should make application in advance and receive permission of the relevant Faculty Administrator before such meetings take place.

11(a). Alcoholic drink may not be brought into the building or grounds of the Institute without the prior permission of the relevant Director.

11(b). Drugs, other than those medically prescribed for the bearer's personal use, may not be brought into the buildings or grounds of the Institute.

12(a). Items left on Institute property are left entirely at the owner's risk. The Institute accepts no responsibility for any loss, damage to or theft of such items, howsoever caused.

12(b). Students are forbidden to park cars/ bicycles/motor cycles except in such places as they are authorised to do so from time to time. Use of parking areas is at the sole risk of the user in all respects and neither the Institute, its servants or agents accept liability for any loss, damage or injury to persons, vehicles, accessories or contents how ever caused.

13. The Faculty Administrator must be consulted in advance if Institute Organisations or Student Unions propose to arrange parades, collections, demonstrations or any other activities of this kind, using the name of the Dublin Institute of Technology. Approval is given on the understanding that relevant bye-laws and such conditions as are set down by the Institute are understood and will be observed. Notice to the appropriate public authorities, where required, should be arranged well in advance.
    Individual students participating in the name of the Institute in any activity outside the Institute remain subject to the general regulation that students conduct shall not bring the Institute into disrepute.
14. An appeal by a student against a decision on disciplinary matters may be made by the student through the Director/Secretary's office to the Disciplinary Appeals Board of the Institute, the Board shall comprise a membership as follows:

(i) Chairman of the Institute or a member acting on the Governing Body and nominated by the Chairman
(ii) The Director/Secretary of the Institute
(iii)A Director nominated by the President
(iv)A Student Representative nominated by the President.

Attendance

1. Students shall attend all assessments as set out in the Institute's General Assessment Regulations and in the appropriate Course Document.
2. Students must provide themselves with such books, instruments and equipment

(including special clothing) as their classes may, in the opinion of the Institute, require. Safety precautions, and such other regulations as the work of the Institute may require, must be observed as prescribed.

Students are required to keep such notebooks and record books, and to undertake and submit by the dates specified such course work and assignments as specified by members of the teaching staff. Failure in this respect may lead to suspension or expulsion.

Apprentices should note that details of employment and the attendance of all apprentices enrolled in release courses are made available to the relevant authority and employer.

Sexual Harassment

Students must behave in accordance with the Institute's Policy on Preventing and Dealing with Sexual Harassment (October 1995). Sexual harassment during the course of work, study or any other activity in the Institute will not be tolerated. Other forms of harassment of a sectarian, racial or bullying nature are equally unacceptable. Essential features in this area are that the behaviour is unwanted by the recipient and would be regarded as harassment by any reasonable person.

Data Protection

The Institute is registered as a "data controller" under the Data Protection Act 1988. All students are required to comply with the requirements of the Act.

Photocopying & Copyright

All users of the Institute's photocopying equipment are required to comply with the provisions of the Copyright Act 1963 (as amended) when making photocopies from material which enjoys copyright protection. Failure to comply may expose the person to potential civil liability and to the Institute's disciplinary procedures.

Computer Programmes/Usage of Computer Resources

All users of the Institute's computing equipment must strictly observe the requirements of all "site licenses" and any other regulations regarding the use and/or copying of computer programmes. Failure to comply may expose the person to civil liability and to the Institute's disciplinary procedures. Users must not physically damage or deface any computer, ancillary equipment, documentation or related materials.

Library Regulations

1. All registered staff and students of the Dublin Institute of Technology are entitled to use library services. Other categories of user may be admitted according to the DIT library policy on external readers. The Institute reserves the right to refuse admission to the library.
2. All users must have a current DIT identity card or library card, which must be produced when borrowing library materials, and at any other time on request.
3. The person registered on the ID card or Library card is responsible for all material borrowed on that card. ID cards and Library cards are not transferable. Lost or stolen cards should be reported immediately to the Faculty Office which issued the card.
4. All materials borrowed from the library must be returned by the due date and time. Borrowers with overdue material may not be permitted to borrow additional items, or renew other items, until such time as all overdue items are returned. Fines may be levied on overdue items.
5. Users are liable for the cost of replacement or repair of all material lost, damaged or defaced by them while in their possession or while on loan to them.
6. Unauthorised removal or attempted removal of any item from the library will be regarded by the Institute as a serious offense.
7. Library users must refrain from behaviour which would cause a disturbance to other users. The library is a study area and noise must be kept to a minimum.
8. Smoking, eating and drinking in the library are forbidden, and users should not bring food and/or drink into the library.
9. Mobile phones, personal stereos, etc. must be switched off, and may not be used, within the library.
10. All users of the Institute's photocopying equipment are required to comply with the provisions of the Copyright Act 1963 (as amended) when making photocopies from material which enjoys copyright protection. Failure to comply may expose the person to potential civil liability and to the Institute's disciplinary procedures.

11. Items left on Institute property are left entirely at the owner's risk. The Institute accepts no responsibility for any loss, damage to or theft of such items, howsoever caused.
12. Breach of these regulations may lead to disciplinary procedures, including those specified in the Institute Student Regulations, being invoked.
13. Library staff are authorised to take appropriate action to ensure that all library users comply with these regulations. Users are required to comply with directions from library staff. Users are required to co-operate fully with any requests made by any member of the library staff to allow the items in the possession of the user to be inspected, and failure to render such co-operation will be regarded as a serious offence.

Assessment Regulations

The Assessment Regulations, including examination regulations and appeals, are contained in the Institute's General Assessment Regulations, approved by Academic Council in June 1998.

Approved by Governing Body-28th August 1998.

Regulations Governing the use of Computer Resources

Users are required to abide by the following regulations, and by whatever additional rules which are laid down from time to time, in relation to the proper usage of computer equipment and materials.

- Users must not physically damage or deface any computer, ancillary equipment, documentation or related materials.
- Users are advised that software products are covered by licensing agreements. Such products and related materials shall not be copied.
- All users are required to comply with the terms and provisions of the Data Protection Act 1988 and subsequent amendments. A copy is available from the Library.
- It is the user's responsibility to be informed of the correct operating procedures for the computer resources or products used and to utilise such resources or products in a responsible manner.
- A user who is uncertain as to the correct procedure in any situation should obtain clarification before proceeding.
- Users must ensure that any access granted to them in respect of computer equipment or service is used solely by themselves and only for their designated course work or research.
- Users must not interfere with the computer service or any resources deployed by another user.
- Users must ensure that they do not deliberately or otherwise corrupt or destroy any software or data facilities accessible to them or introduce viruses to these resources.
- Users must not attempt to gain access to resources for which they have not been specifically authorised nor should they attempt to bypass or probe any security mechanisms governing the control of resources.
- Eating, drinking and smoking are strictly forbidden in any computer service area.
- Users may not remove, disconnect, power off or otherwise interfere with any item of computer equipment without authorisation.
- Any user in breach of these regulations is liable for the legal and disciplinary consequences of that action.

July 1999

DIT ACADEMIC CALENDAR-SESSION 2000/2001

Non-Semesterised Courses

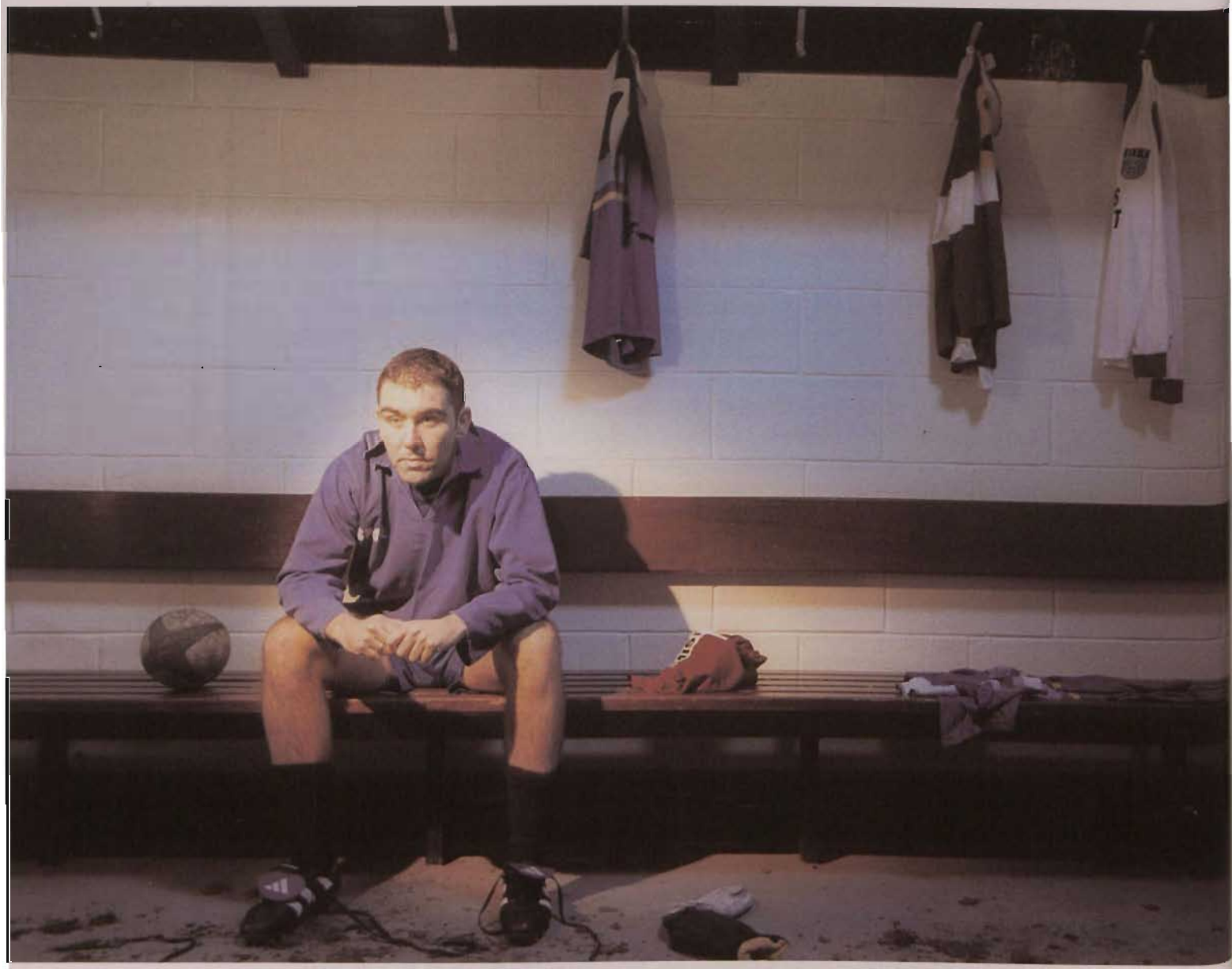
2000	**Term 1**	
September	Monday 4th	Commencement of Session
		Interviews and enrolments for part-time and evening courses commence
	Wednesday 6th	Commencement of part-time courses in Music & Drama
	Monday 18th	1st Year courses commence with the induction programme
		Second and subsequent years of all Whole-time courses commence
		Part-time day and evening courses commence
December	Friday 15th	Final class meetings of first term
	Saturday 16th	Final class meetings for part-time and evening courses in Music & Drama
2001	**Term 2**	
January	Monday 8th	Classes Resume
April	Friday 6th	Final class meetings of second term
April	Monday 23rd	Classes Resume
	Term 3	
May	Friday 4th	Final class meetings of third term
	Monday 15th	Examinations commence

Semesterised Courses

2000	**Semester 1**	
September	Wednesday 13th	1st year students induction programme
	Monday 18th	Teaching Semester commences
2001		
January	Monday 8th	Study/Revision Week
	Monday 15th	Examinations commence
Semester 2		
January	Monday 29th	Teaching semester commences
May	Friday 11th	Final class meetings of semester
	Monday 14th	Study/revision week
	Monday 21st	Examinations commence

- Classes are not scheduled on public holidays during the session (viz. 30th October; 19th March; 7th May; 4th June).

- Classes are not scheduled from Monday 18th December to Friday 5th January inclusive or from Monday 9th April to Friday 20th April inc.



Full-time courses in the Faculty of Applied Arts

Degree Programmes

26	Communications: Journalism	FT353
28	Design-Interior + Furniture	FT544
29	Design-Visual Communication	FT545
30	Early Childhood Care and Education	FT472
31	Fine Art	FT546
32	International Business and Languages (French)	FT255
32	International Business and Languages (German)	FT256
32	International Business and Languages (Spanish)	FT257
34	International Business and Languages (English)	FT258
36	Media Arts	FT352
38	Music	FT601
40	Music Education	FT602
42	Photography	FT259
44	Printing Management	FT130
45	Social Care	FT471

Diploma/Certificate Programmes

46	Design Display	DT515
48	Design Technology	DT516
49	Early Childhood Care and Education	DT468
50	Media Production	DT517
51	Music Foundation	DT604
52	Social Care Practice	DT467
54	Speech and Drama Studies	DT603

Communications: Journalism FT353

Course Description

This is a four-year honours degree course which provides students with professional and academic education in journalism. The aim is to produce reflective practitioners in print and broadcast journalism and the course divides more or less equally between theory and practice. This course is currently under review.

Course Outline

The theoretical side of the course is intended to give the students an understanding and critical appreciation of the role of media and the journalist in society. It comprises modules in communication theory and in media analysis. The former is more abstract and is concerned on a general level with different approaches to, for example, the process of communication and the role, influence, control and ownership of the media while media analysis examines from different theoretical perspectives newspaper articles and broadcast news and current affairs programmes. Questions of press freedom and ethics are also addressed.

Students must take either Gaeilge or French and may take both languages. These are integrated language courses, which are specifically designed for journalism students. Generally, students will have taken the language option of their choice to Leaving Certificate level before entering the course. The professional journalism side allows students acquire the different skills and competencies required to work in print and broadcast journalism. Throughout the four years, students learn all aspects of news gathering, news writing, sub-editing, layout and design, radio and television journalism, keyboard skills and shorthand. They also follow a range of modules in law, politics and business to give them the understanding of these subject areas as is necessary for their work as journalists.

First Year
Communications Theory
Media Analysis
Gaeilge/French
Basic Journalistic Skills
Print Journalism
Shorthand
Radio
Politics
Law

Second Year
Communications Theory
Media Analysis
Gaeilge/French
Print Journalism
Television
Shorthand
Business
Law

Third Year
Communications Theory
Media Analysis
Gaeilge/French
Print Journalism
Radio
Television
European Politics and Economics
Dissertation Methodology

Fourth Year
Issues of Contemporary Journalism
Media Representations
Gaeilge/French
Dissertation
Journalism projects in print and radio
Media management
Work Experience (6 weeks in summer)

Duration

Four years full-time.

Location

DIT Aungier Street.

Entry Requirements

Applicants must have obtained passes in six Leaving Certificate subjects, including at least grade C3 on higher level English or Irish and one other higher level paper.

Award

BSc (Communications) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

Graduates are employed widely in the newspaper and broadcast industries. The work experience programme together with the advice and guidance of lecturers will assist students to identify their particular career objectives in journalism.

Further Information

Ms Nora French,
Head of Department of Communications,
School of Media
t: 01 402 3098
f: 01 402 3003
e: facultyarts@dit.ie
w: Http://www.dit.ie

Design-Interior+Furniture FT544

Course Description

This course provides education and training for those wishing to pursue careers in the general area of Interior Design and Furniture Design.

Course Outline

The course is based around 3 areas of study. These are **Major Study, Electives and Contextual Studies.**

Major Study

The Major Study area is a fundamental, creative and development study of design. It is studio based and project driven. Initially, it concentrates on developing a design foundation and allows the student to specialise in Interior Design or Furniture Design in years 3 and 4 of the course.

Electives

The purpose of this area of study is to allow the student to establish a broad skill base and explore their creative interests in areas related to Interior Design and Furniture Design. Electives offered include Exhibition Design, Stage and TV Design, Sculpture, Multimedia.

Contextual Studies

This area of study provides a critical and theoretical framework to design practice. It develops the student's analytical, critical and theoretical skills and supports an informed practice of design. Subjects include Design History, Theory of Design, Philosophy and Psychology.

First Year

The emphasis is on developing a three dimensional design foundation through the study of Design Applications, History of Art and Design, Psychology, Philosophy, Computer Aided Design, Technical Drawing, Freehand Drawing, 3D Design, Communication and Photography.

Second Year

The student is exposed to problem solving in a variety of 3D areas in the early part of second year. Midway through the year s/he chooses to specialise either in the Interior or Furniture Design pathway. The student is encouraged to broaden his/her applied design experience through an extensive elective programme of supporting subjects (electives are subject to availability).

Third Year

In this year the student continues to specialise in one of the two pathways and also continues to develop within his/her chosen pathway.

Fourth Year

The student works on his/her approved academic and practical studio programme, which is presented for final assessment at the end of the session.

Duration

Four years full-time.

Location

DIT Mountjoy Square/Portland Row.

Entry Requirements

Leaving Certificate in six subjects, at least two of which must be at grade C3 or higher on higher level papers or an equivalent qualification **and** an appropriate portfolio of work (see page 13 for full details). Conditional offers will be issued during May based on portfolio review.

Award

BA (Design) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

Display and Exhibition Firms; Television; Theatre; Interior Design Practice; Textile and Furniture Manufacturing Firms; Architectural Firms; Private Practice; State or Semi-State Companies; Research; Education; Manufacturing Industry.

Further Information

Mr John O'Connor,
Head, School of Art, Design and Printing
t: 01 402 4138
f: 01 402 4297
e: facultyarts@dit.ie
w: http://www.dit.ie

Design-Visual Communication FT545

Course Description

Course options include Graphic Design, Illustration, Photo Imaging and Multimedia Design. This course provides education and training for those wishing to pursue careers in the general area of Visual Communication Design.

Course Outline

The course is based around 3 areas of study. These are **Major Study, Electives and Contextual Studies.**

Major Study

The Major Study area is a fundamental, creative and developmental study of design. It is studio based and project driven. Initially, it concentrates on developing a design foundation and allows the student to specialise in Graphic Design, Illustration or New Media Design in Years 3 and 4 of the course.

Electives

The purpose of this area of study is to allow the student to establish a broad skill base and explore their creative interests in areas related to Visual Communications. Electives offered include Printmaking, Photography, CAD, Painting.

Contextual Studies

This area of study provides a critical and theoretical framework to design practice. It develops the students analytical, critical and theoretical skills and supports an informed practice of design. Subjects include Design History, Theory of Design, Philosophy and Psychology.

First Year

Concentrates on developing a design foundation through the study of Design Principles, Art History, Psychology, Philosophy and Languages, Design Fundamentals, Typography, Printmaking, Drawing, Colour, Photography, Multimedia, Computers.

Second Year

Concentrates on the application of design in a more professional context through the further study of Graphic Design, Illustration and New Media Design with electives in the areas of Printmaking, Photography, Exhibition Design, Typography and Drawing. The more theoretical aspects of design in its cultural and social context are covered through the study of History of Art and Design, Philosophy and Psychology.

Third Year

Specialisation in Graphic Design, Illustration and Multimedia, History of Design, Professional Practice, Philosophy and Sociology.

Fourth Year

Students work on their approved academic and practical studio programmes which are presented for final assessment at the end of the session resulting in a public exhibition.

Duration

Four years full-time.

Location

This programme is based at DIT Mountjoy Square, with additional classes in Bolton Street, Portland Row, and Rathmines Road.

Entry Requirements

Leaving Certificate in six subjects, at least two of which must be at grade C3 or higher on higher level papers or an equivalent qualification **and** an appropriate portfolio of work (see page 13 for full details). Final selection is by means of portfolio review and Leaving Certificate. Conditional offers will be issued during May based on portfolio review.

Award

BA (Design) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

Design Consultancy, Advertising Agencies, Sign Design and Display Firms, Printing and Publishing Industry, Television, State, semi-State and Private Companies.

Further Information

Mr John O'Connor,
Head, School of Art, Design and Printing
t: 01 402 4138
f: 01 402 4297
e: facultyarts@dit.ie
w: http://www.dit.ie

Early Childhood Care and Education FT472

Course Description

This ordinary level degree course is designed to provide an integrated programme for students who wish to pursue a career in Early Childhood Care and Education.The course is underpinned by the following principles:

- the **whole** child is the focus of study
- the child is studied in the context of family, community and society
- play is seen as central to young childrens' development
- theory and practice are combined to encourage a critical, reflective practitioner.

Course Outline

The following strands run through the three years of the course:

- Pedagogy programme
- Professional Practice programme
- Psychology programme
- Social Theory programme
- Creative programme
- Health Studies
- Research programme.

Duration

Three years full-time.

Location

DIT Rathmines House.

Entry Requirements

Leaving Certificate in six subjects at least two of which must be at grade C3 or higher on higher level papers. Results must include Irish or English and Mathematics.
Supervised placement is an integral part of the course and Garda (Police) clearance may be required from students.

Award

BA (Early Childhood Care and Education) of Dublin Institute of Technology. (Ordinary level).

Career Opportunities

Graduates of this course find employment in pre-schools, creches, day nurseries, after-school services and special early years services.

Further Information

Secretary,
School of Social Science
t: 01 402 3454/402 3464
f: 01 402 3499
e: facultyarts@dit.ie
w: http://www.dit.ie

Fine Art FT546

Course Description

Course options include: Painting, Sculpture and Printmaking. This course is designed to encourage the development of intellectual and visualising skills through a multi-choice/ multi-disciplinary programme. Emphasis is placed on traditional skills and personal choices may be pursued in the final year. The primary aim of the course is to educate and train students in a wide variety of visual skills and abilities. The course content will also engage them in creative activities to develop their artistic independence, as well as their creative abilities. Graduates may proceed to further study or appropriate employment within Art and Design areas.

Course Outline

First Year

2D/3D studies with an emphasis on theoretical and practical applications, Photography, Drawing, Printmaking, Academic Studies, History and Theory of Art and Design, Philosophy, Psychology, Business Studies.

Second Year

Painting, Sculpture and Printmaking, Drawing, Photography, Academic Core Studies, History, Philosophy, Psychology, and Sociology of Art and Design, Business Studies.

Third Year

Painting or Sculpture or Printmaking. A Visual Communication or Environmental/ Spatial Design Component, Academic Core Studies, History, Philosophy and Sociology of Art and Design.

Fourth Year

Students work on their approved academic and practical programmes of study in Painting, Sculpture or Printmaking which are presented for final assessment at the end of the session. There is also a Visual Communication and Environmental/Spatial Design component in support studies.

Duration

Four years full-time.

Location

DIT Mountjoy Square.

Entry Requirements

Leaving Certificate in six subjects, two of which must be at grade C3 or higher on higher level papers or an equivalent qualification. All applicants are required to present a portfolio of work (see page 13 for full details). The final selection may incorporate an interview. Conditional offers will be issued during May based on portfolio review.

Award

BA (Fine Art) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

Practising artist or craft person.

Further Information

Mr John O'Connor,
Head, School of Art, Design and Printing
t: 01 402 4138
f: 01 402 4297
e: facultyarts@dit.ie
w: http://www.dit.ie

International Business and Languages FT255 FT256 FT257

Course Description

This degree programme is a conjoint course between the Faculty of Business and the Faculty of Applied Arts, with 50% of the contact hours devoted to two languages and 50% devoted to business subjects. The two key characteristics of this full-time, four year degree programme are the opportunity to study two foreign languages with a full range of business subjects, and to spend the third year abroad. Students achieve a high level of linguistic proficiency in the first foreign language of their choice, enabling them to engage in a variety of business tasks in that language. They also achieve a good working competence in a second foreign language taken at beginner or intermediate level. The year spent abroad is of paramount importance. It is spent either wholly in study at a partner institution or in study combined with an approved work placement. While application is made on the basis of the student's choice of first foreign language, the business curriculum is common to all language streams. The appropriate codes are as follows:

Major Language:	Apply for:
French	FT255
German	FT256
Spanish	FT257

An additional course (FT258) is also being offered which has English as the major language. This course, however, is available only to students whose mother tongue is not English or Irish. Such students must demonstrate a minimum competence level in English.
The following second language options are currently on offer, subject to minimum numbers: French or German at post Leaving Certificate level and Italian, Russian or Spanish at beginners' level.

Course Outline

First Year

First Language Language accuracy training in oral/written communication; self-learning skills (reading, listening and writing strategies) translation into English; socio-economic, political, historical and cultural background studies; comparative studies of Irish and target cultures.

Second Language Overview of cultural, social, historical aspects of target country; geography, demographic trends, survival skills in oral and written language; information-seeking techniques, use of reference works.

Business Modules Financial Accounting, Business Communication, Management, Micro and Macroeconomics, Marketing, Computer Studies.

Second Year

First Language Language accuracy training in oral/written communication; self-learning skills (business correspondence, report writing, presentations); translation of business texts into English; business and economic background studies; intercultural awareness; preparation for year abroad.

Second Language Focus on selected background topics, promotion of self learning techniques, task-based oral communication, personal and social correspondence, writing skills, comparative grammar, translation into English.

Business Modules Management Accounting, Market Research, Human Resource Management, Business Law, European Integration, Corporate Finance, Consumer Behaviour, Strategic Management, European Law, Management Information Systems.

Third Year

College placement or college placement **plus** an industrial placement. The modules will be chosen from the range of business, language and other electives available in the partner institutions.

Fourth Year

First Language Case studies; presentations and product promotions; translation/ interpreting; commercial and current affairs reflected in foreign media; comparative cultural studies; business reporting; language sensitising.

Second Language Commercial background, major commercial institutions, basic interpreting, interview techniques, product promotion, translation of commercial documents into English.

Business Modules International Corporate Finance, International Marketing, International Management, Technology and Business, Professional Development, Business Project.

Entry Requirements

Leaving Certificate in six subjects including English or Irish and Mathematics, with grade C1 or higher in two subjects on higher level papers, one of which must be French for FT255, or German for FT256, or Spanish for FT257 *or* such qualification as the Institute may deem equivalent. Applicants for FT258 should see separate entry in this publication.

Duration

Four years full-time.

Location

DIT Kevin Street.

Award

BA in International Business and Languages of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

In view of the increasing globalisation of world markets and the dependency of the Irish economy on international trade, it is essential that Ireland develop the skills required for business to thrive. This course is designed to provide those skills to students who see themselves working in the increasing number of companies, both Irish and international, operating in this global environment. Students who successfully complete the course will be able to play their part in seeking out these exciting new markets. Through the integration of language and business skills, graduates of this programme are also suited to the demands of small and medium sized enterprises, which are so important to the overseas expansion of Ireland's business activities. Graduates gain access to the jobs market at middle-management level from which they may progress to more senior positions. They may also opt for further studies or research.

Further Information

Ms Helene Conway,
Head, School of Languages
t: 01 402 4673
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e: facultyarts@dit.ie
w: http://www.dit.ie

International Business and Languages (English) FT258

Course Description

This is a full-time, four year Honours degree programme. Its two main components, languages and business, are of equal weighting and importance. Students achieve a high level of linguistic proficiency in the first foreign language (English), enabling them to engage in a variety of business tasks. They achieve a good working competence in a second foreign language which is taken at beginner's or intermediate level. Students on this stream spend the third year studying approved modules on other DIT programmes. There is also the possibility of spending a practical semester in an approved company in Ireland or the country of their second language. The business curriculum followed is identical to that of the other intake streams: French FT255, German FT256 or Spanish FT257. The following second language options are currently on offer, subject to minimum numbers: **Beginners' level:** Italian, Russian, Spanish. **Intermediate level:** French, German. Students may not study their native language as a second language.

Course Outline

First Year

English Language accuracy training in oral/written communication; self-learning skills: reading, listening/writing and oral communication strategies; socio-economic, political, historical and cultural background studies; comparative studies of home and Irish cultures.

Second Language Overview of cultural, social, historical aspects of target country; geography, demographic trends, survival skills in oral and written language; information-seeking techniques, use of reference works.

Business Modules Financial Accounting, Business Communication, Micro Economics, Macro Economics, Management, Marketing, Computer Studies.

Second Year

English Language accuracy training in oral/written communication; self-learning skills; business correspondence, report writing, presentations; business and economic background studies; intercultural awareness; preparation for work placement.

Second Language Focus on selected background topics; promotion of self-learning techniques; task-based oral communication; personal and social correspondence; writing skills; comparative grammar.

Business Modules Management Accounting; Market Research; Human Resource Management; Business Law; European Integration; Corporate Finance; Consumer Behaviour; Strategic Management; European Law; Management Information Systems.

Third Year

A range of modules on other DIT courses will be on offer. The modules will be chosen from a range of business, language and other electives available.

Fourth Year

English Language case studies; presentations and product promotions; commercial and current affairs reflected in foreign media; comparative cultural studies; business reporting; language sensitising.

Second Language Commercial background, major commercial institutions, basic interpreting, interview techniques, product promotion.

Business Modules International Corporate Finance, International Marketing, International Management, Technology and Business, Professional Development, Business Project.

Duration

Four years full-time.

Location

DIT Kevin Street.

Entry Requirements

A pass in an examination which permits entry to third-level education in the home country and which includes a pass in Mathematics, English and mother tongue (which must not be English or Irish).

A documented ability in the English language at least equivalent in level to the Cambridge First Certificate Examination is also required. In certain cases the School may insist on an oral examination.

Application should be made directly to the Institute on or before 31st May 2001.

Suitably qualified applicants may apply for entry to the 2nd or 4th years of the course using the Advanced Entry system. Full details are available from the School of Languages.

All non-EU applicants must comply with Irish immigration requirements. Details are available from the Irish Embassy or from the Department of Foreign Affairs, Visa Section, 69-71 St. Stephen's Green, Dublin 2. Tel: +353-1-478 0822.

Award

BA in International Business and Languages of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

In view of the increasing globalisation of world markets and the dependency of the global economy on international trade, it is essential that students develop the linguistic and business skills required. Students who successfully complete the course will be able to help companies develop their strategies in seeking out exciting new markets and expanding within them. Since there is constant interaction between languages and business, graduates of this programme are equally suited to the demands of all business organisations from small and medium sized enterprises to multinational concerns. This undergraduate course also provides an ideal foundation for further studies or research in business throughout the English-speaking world.

Further Information

Secretary, School of Languages
t: 01 402 4673
f: 01 402 4987
e: facultyarts@dit.ie
w: http://www.dit.ie

Media Arts FT352

Course Description

In recognition of the convergence between the media and cultural industries, entertainment and communication technologies, the BA Communications: Film and Broadcasting has been reviewed and updated. From September 2000, it will be called BA Media Arts. The new BA MEDIA ARTS is an integrated four-year honours degree programme preparing students to work in the rapidly developing media and cultural industries, in Ireland and internationally.

Course Outline

Students will have the opportunity to:

- Develop a theoretical, critical and reflective understanding of mediaforms
- Utilise all the elements of text, image, sound and story-telling
- Originate and develop their own media content (e.g. documentaries, drama, story-telling)
- Work across diverse media formats: the still and moving image, broadcasting and the web
- Gain a working knowledge of professional standards and operational procedures

Students also choose a language: French or Irish Language courses comprise both language skills and the literary and cultural context of the particular language.

All students produce both a major documentary and a narrative project, and specialise in one of the following:

- Content Creation (writing, developing new ideas, research)
- Content Realisation (producing, directing, managing) *or*
- Content Production (camera, sound, editing).

First Year

Students are introduced to the language of storytelling, media content creation, genres of media, conventions of representation, and the relationship between media and society. Projects enable students to explore visual and narrative communication through still, aural and moving images.

Second Year

Students focus on the needs and challenges of the global network society, media audiences, and new media landscape. Students develop media content through workshops in the still and moving image, broadcasting and the web, and are provided with extensive training in the operations of studios and programme making.

Third Year

Students specialise in one of following: - Content Creation, Content Realisation or Content Production. Each specialisation is provided with more advanced technical workshops: script writing and development (Creation); skills of production management and approaches to creative producing and directing (Realisation); operational and production techniques (Production). Projects in documentary and in narrative adaptation reflect a deeper understanding of the principles and practice of creative storytelling.

Fourth Year

Students produce group projects drawing on their area of specialisation. Graduation work is produced to the highest possible technical standard and is expected to be innovative. Students also research and write an academic dissertation on a topic of their choice. They are expected to pursue original lines of enquiry that express new dimensions in narrative creation.

Duration

4 years full-time.

Location

DIT Aungier St.

Entry Requirements

Leaving Certificate in six subjects, two of which must be at grade C3 or higher on higher level papers. **For entry 2002 and subsequent years applicants will also be required to have obtained grade C3 or higher on higher level papers in the language they intend to study i.e. French or Irish.**

The Faculty makes special provision for non-standard applicants in accordance with DIT policy. When selecting such applicants, evidence of the following qualities is sought:

- Ability and potential in both practical and theoretical areas of the programme
- A lively interest in ideas, culture, communication and expression
- A critical awareness of the role of media in society
- An interest in a career or prior involvement in any aspect of media.

Advanced entry to year 2 may be available to candidates who have attained at least a merit in a DIT or National Certificate in Media Production or equivalent.

Award

BA (Hons) Media Arts of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

Graduates of the BA Media Arts are suited to a wide variety of openings in the media and cultural industries including television, radio, film, new media. Students may also pursue further academic/research study or additional professional qualifications. Masters programmes are offered in Design in Digital Media, Film Production, Interactive Media, Journalism, Media Studies, Music Technology and Public Relations, in addition to an MPhil and PhD by research.

Further Information

Secretary
School of Media
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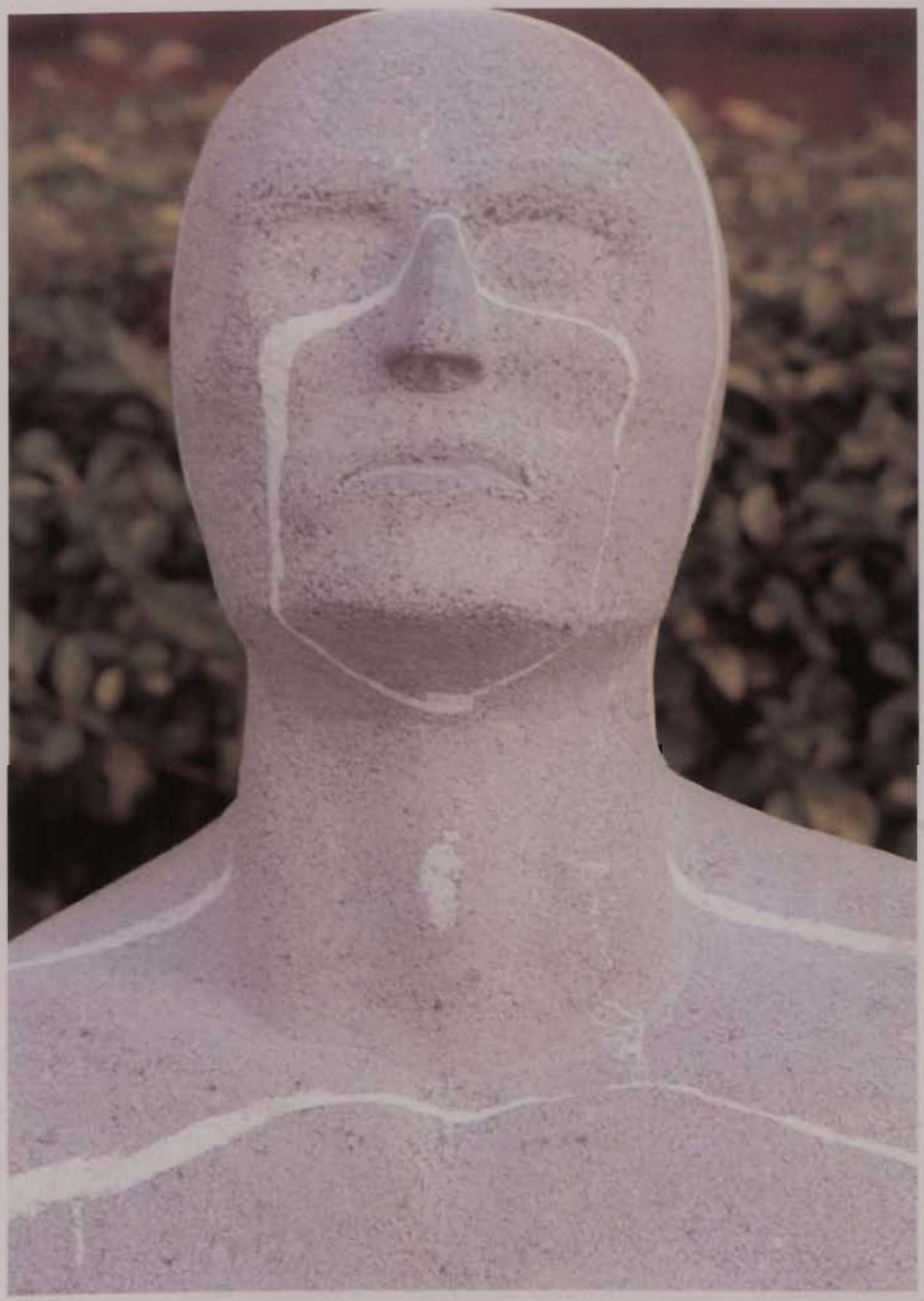
f: 01 402 3003
e: facultyarts@dit.ie
w: http://www.dit.ie



Music FT601

Course Description

This four-year programme, which has recently undergone a major review and development, enables students to concentrate on one of the following:

- Performance
- Instrumental/Vocal Teaching
- Composition
- Irish Traditional Music.

It is the first undergraduate programme in the country offering a specialist undergraduate degree in Irish traditional music.
The course is designed for music students seeking a full-time programme which will train them to a professional level as performers (both classical and Irish traditional), instrumental/vocal teachers and composers. All students participate in a diverse programme of recitals, concerts and opera performances. All performance studies are supported and enhanced by a comprehensive academic content.

Course Outline

In Years 1 and 2, all students will take a common core of subjects. There is a major emphasis on performance (including participation in ensembles and chamber music) combined with a strong academic content, including composition, techniques, history of music, aural training and an introduction to education studies, ethnomusicology and music technology.
In Years 3 and 4, students will concentrate on the range of subjects attached to one of the major options on offer.

Major Option: Performance

- Performance Studies
  - Principal Instrument/Voice
  - Second Instrument/Voice
  - Ensembles
  - Chamber Music
- Style and Interpretation

Major Option: Composition

- Composition Studies
  - 19th and 20th Century Harmony
  - Orchestration
  - Portfolio of Works
- Style and Interpretation

Major Option: Instrumental/Vocal Teaching

- Education Studies
  - Psychology of Music Education
  - Teaching Observation/Microteaching
  - Teaching Methods
  - Educational Issues
- Style and Interpretation

Major Option: Irish Traditional Music

- Performance Studies
  - Principal Instrument/Voice
  - Second Instrument/Voice
  - Irish Traditional Group
- Irish Traditional Music Studies (historical and analytical)

In addition to the primary subjects included under each major option, students will take a set group of secondary subjects from the following list: performance studies, practical musicianship, composition techniques, orchestration, repertoire, analysis and criticism, and dissertation/fieldwork project.

Duration

Four years full-time.

Location

The course is based in DIT Rathmines Road with instrumental classes in Chatham Row and Adelaide Road.

Entry Requirements

Leaving Certificate in six subjects (including English or Irish and Mathematics) two of which must be at grade C3 or higher on higher level papers or an equivalent qualification.

Selection Procedures

Stage One

Applicants are called for an audition/interview in April. A high standard of performance is required. Applicants with a particular interest in composition are invited to submit a portfolio of their works in addition to performing at the audition. The audition consists of a performance of two contrasting works on the principal instrument/voice, and may include a sight-test and scales. The interview is held to satisfy the Institute of the student's aptitude and ability for the course.

Stage Two

Applicants whose practical potential is considered to meet the demands of the course are invited to sit a written and aural musicianship entry test in May. Sample tests are available from The Librarian, DIT Rathmines House, Rathmines Road, Dublin 6.

Stage Three
Applicants who are successful in Stage 1 and Stage 2 must also meet the minimum educational entry requirements.

Award
BMus of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities
Graduates may proceed to careers as soloists or group performers in the orchestral/vocal/Irish traditional fields, as composers or as teachers in the public or private sector. A high level of acceptance of graduates into prestigious postgraduate courses at home and abroad has also been a feature of the course.

Further Information
Mr. Roy Holmes,
Course Chair,
DIT Adelaide Road
t: 01 402 3561
f: 01 402 3555
e: roy.holmes@dit.ie
w: http://www.dit.ie

Music Education FT602

Offered by Dublin Institute of Technology and University of Dublin (Trinity College)

Course Description

This course is intended for those wishing to become teachers of music in post-primary schools and provides them with the necessary academic and professional background. It is taught by DIT Conservatory of Music and Drama and TCD's Departments of Teacher Education, History and Music. Students become full members of both DIT and TCD. The course requires a high standard in performance and provides a solid grounding in harmony, counterpoint, composition, orchestration, analysis and history of music. A wider experience of practical music-making is ensured by participation in ensembles ranging from choral society and chamber choir to orchestra and concert band. All students undertake teaching practice throughout the course. History is a compulsory subject in the first year and students are encouraged to continue with this aspect of their course in subsequent years, if only to enhance their employment prospects.

Course Outline

The programme offers a balance of practical skills with academic studies. Subjects include principal instrument, instrumental methodology and repertoire, major option (performance, composition, dissertation), aural training, keyboard skills, harmony and counterpoint, history of music, Irish music, practical musicianship, conducting, history, practice of music education, educational issues, instrumental technology, philosophy of education, evaluation of statistics, teaching practice and micro-teaching.

Duration

Four years full-time.

Location

The main location for this programme is DIT Rathmines Road, with additional classes in Chatham Row or Adelaide Road.

Entry Requirements

Applicants must satisfy the matriculation requirements of the University of Dublin (Trinity College) as published in their Admissions Requirements booklet.

Selection Procedures

Applications for admission to the course, which is coded TR009 in the CAO handbook, should be made to the Central Applications Office (CAO), Tower House, Eglinton Street, Galway. In addition to satisfying the academic requirements for the course applicants are also required to attend for tests and interviews.

Stage One

All applicants are invited to take a music test. The first three parts of this test are common to all music students applying to TCD. The fourth test is exclusive to BMusEd applicants and consists of a short essay on a subject relevant to music.

Stage Two

Applicants selected from the first stage are required to take a practical performance test. This involves two contrasting works on principal instrument/voice and a sight test. It also involves a short interview.

Stage Three

Offers of places on the course are made subject to fulfilment of TCD's minimum matriculation requirements.

Award

BMusEd with honours classification (University of Dublin) and **Diploma in Music Education** of Dublin Institute of Technology are awarded to successful candidates enrolled with DIT at the end of the fourth year. Graduates of the course are recognised by the Secondary Teachers' Registration Council.

Further Information

Dr Marian Deasy,
Course Chair
DIT Adelaide Road
t: 01 402 3557
f: 01 402 3555
e: marion.deasy@dit.ie
w: http://www.dit.ie

Photography FT259

Course Description

The BA (Hons) Photography provides the first opportunity for students in Ireland to study photography to degree level. Housed in the Photography and Digital Imaging Studio in the heart of Dublin's cultural quarter, Temple Bar, the course has close links with the National Photographic Archive, Arthouse, the Irish Film Centre, and the Gallery of Photography. The course provides a centre of excellence for nurturing photographic talent from both Ireland and abroad.

The Photography and Digital Imaging Studio provides dedicated facilities for specialised undergraduate and postgraduate courses and offers innovative short professional level programmes. The Studio plays an important role in the Faculty of Applied Arts, which has expertise in film, broadcasting, design and fine art, photography, music and music technology, journalism, printing and publishing, computer imaging, interactive media, and new technologies. It works closely with the Digital Media Centre and the Media Production Unit.

The Photography and Digital Imaging Studio has international links with other institutions including Nottingham and Trent University, Napier University, Karel de Grote-Hogeschool, Belgium and Haddasah College, Jerusalem. It is envisaged that similar relationships will be fostered to facilitate exchange of ideas, staff and students with other institutions engaged in similar academic programmes.

Course Outline

The overall course is based around the three areas of study, which are integrated across all years. These are Creative Practice, Critical Studies and Photo-technologies/Support Studies.

Creative Practice

This is project-driven with practical objectives which develop and encourage understanding of a critical and creative practice using available photographic and digital imaging techniques. This combines a disciplined approach to image production with an emphasis on creative and innovative practice. These projects develop over each year to allow more student-led projects, research and independent learning initiatives. It allows for and encourages an open ended, investigative and creative approach to image making.

Photo-Technologies/Support Studies

This core study area provides a full and thorough practical grounding in the photographic technologies for studio/location and darkroom practices and others in the context of the other two core elements. The philosophy of this area is that techniques and technologies are applied in real life situations as ways and means of solving problems.

Critical Studies

This area of study gives a critical framework to photographic practices in a social and historical context. It develops the student's analytical, critical and theoretical skills and promotes and supports an informed practice of photography, which is aware of the heterogeneous visual tradition of the medium. This incorporates art and cultural histories, research and methodologies, aesthetic and formal analysis all in a critical, theoretical and philosophical context.

Duration

Four years full-time

Location

Photography and Digital Imaging Studio, Temple Bar, Dublin, and other DIT sites.

Award

BA (Hons) Photography of Dublin Institute of Technology with Grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Entry Requirements

Leaving Certificate in six subjects, at least two of which must be at Grade C3 or higher on higher level papers or an equivalent qualification or acceptable appropriate experience **and** an appropriate portfolio of work (see page 13 for full details). DIT welcomes applications from mature applicants who may be interviewed as part of the selection procedure. Final selection is by means of a portfolio review and Leaving Certificate.

Career Opportunities

DIT is committed to ensuring that students achieve the highest artistic and intellectual standard possible and to consider a wide range of career possibilities in traditional and emerging fields, including independent editorial, commercial, art photography, multimedia and digital imaging and associated industries, postgraduate studies, photographic libraries and archives and gallery administration.

Further Information

Mr Anthony Haughey, Course Leader,
Photography and Digital Imaging Studio,
School of Media,
Dublin Institute of Technology,
31 East Essex Street, Dublin 2
t: 01 679 9244
f: 01 679 9311
w: http://www.dit.ie/aa/index.html
or
Secretary,
School of Media,
DIT Aungier Street
t: 01 402 3098
f: 01 402 3003
e: facultyarts@dit.ie
w: http://www.dit.ie

Printing Management FT130

Course Description

This four-year degree programme is designed to combine a broad education in the field of printing and graphics technology with a wide range of specific management techniques.The four structural strands of the course embrace Technology, Production Operations, Management and Professional Development. The programme is delivered by means of lectures, tutorials, assignments, industrial visits, industrial placement and a major dissertation.

Assignment work is an essential element in most subject areas and is used as a means of testing the student's research, presentation and analytical skills.Industrial visits provide an opportunity for students to augment their technical programme. During the third year of the programme students will be placed in industry for a period of four weeks.The dissertation will be an extended body of written work that presents a well-researched and detailed examination of a specific topic relating to the printing and graphic communication industries.

Course Outline

First Year

Graphic Design, Prepress Technology, Printing Technology, Printfinishing Technology, Computer Studies, Financial Accountancy, Marketing, Communications, Language or European Studies option.

Second Year

Graphic Design, Prepress Technology, Printing Technology, Printfinishing Technology, Computer Studies, Business Administration, Cost Accountancy, Communications, Language or European Studies option.

Third Year

Materials Technology, Management Accounting, Print Estimating, Information Technology, Production Operations Management, International Marketing, Communications.

Fourth Year

Materials Technology, Print Estimating, Strategic Management, Financial Management, Information Technology, Total Quality Management, Human Resource Management.

Duration

Four years full-time.

Location

DIT Bolton Street.

Entry Requirements

Applicants must have obtained passes in six Leaving Certificate subjects, including at least two at grade C3 or higher on higher level papers or equivalent qualification.

Award

BSc (Printing Management) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

Graduates are employed throughout Ireland and abroad in the Printing, Publishing, Packaging and Graphic Communication industries in the following areas: Estimating, Production Scheduling, Production Operations, Customer Services, Technical Liaison, Accounting, Quality Management, Purchasing, Marketing and Information Technology.

Further Information

Mr. Brian Kennedy,
Head of Department of Printing and Graphic Communication
t: 01 402 3630
f: 01 402 3999
e: facultyarts@dit.ie
w: http://www.dit.ie

Social Care FT471

Course Description

The course is designed to provide an integrated and cohesive programme for students who wish to pursue a career in Social Care. Theoretical college based content is infused with the experience of students gained through placement. A broad view of the learning process is adopted with a variety of teaching/learning strategies employed to achieve course objectives.

Course Outline

The following five main strands in the degree programme run through all four years:

1. Social Theory programme
2. Psychology programme
3. Professional Practice programme
4. Creative Studies programme
5. Research programme

Duration

Four years full-time.

Location

DIT Rathmines.

Entry Requirements

Leaving Certificate in six subjects at least two of which must be at grade C3 or higher on higher level papers. Results must include Irish or English and Mathematics. In addition it is proposed to offer the final year of the programme to suitably qualified students who already hold a DIT Diploma in Social Care or equivalent.

Such candidates will require a minimum of:

1. Distinction or Merit in the DIT Diploma in Social Care or equivalent
2. One year post-qualification experience.

Eligible candidates will be assessed for entry to the final year through interview and a four month bridging/qualifying programme offered by the School of Social Sciences. **Placement is an integral part of the course and Garda (Police) clearance may be required from students.**

Award

BA (Social Care) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

This programme recognises the complex nature of the social care area and the variety of career paths open to graduates. The programme aims to provide a qualification for graduate entry to a career in a wide range of social care settings such as residential group home, special schools, community care. In addition graduates may progress to a variety of postgraduate options.

Further Information

Secretary
School of Social Science, DIT Rathmines
t: 01 402 3464/402 3454
f: 01 402 3499
e: facultyarts@dit.ie
w: http://www.dit.ie

Design Display DT515

Course Description
This course provides training for students who wish to pursue a career as a Display Designer in the retail industry.

Course Outline
The course is based around 3 areas of study. These are Display Practice, Studio Practice and Contextual studies.

Display Practice
This area introduces students to the fundamentals of design display such as visual merchandising, window display, prop design, lighting design and in-store display.

Studio Practice
This area provides a practical grounding in the technical skills necessary for students to realise their displays.

Contextual Studies
This area provides a theoretical background to the practical study areas and enhances the student's communication skills so that they can operate as members of a display team.

Duration
Two years full-time.

Location
DIT Sackville Place, DIT Mountjoy Square.

Entry Requirements
Leaving Certificate with grade D3 or higher on ordinary level papers in at least five subjects or an acceptable equivalent standard of education **and** an appropriate portfolio of work (see page 13 for full details). Final selection is by means of portfolio review and Leaving Certificate. An interview may also be required. Conditional offers will be issued during May based on portfolio review

Award
Certificate in Design (Display) of Dublin Institute of Technology.

Career Opportunities
Wholesale and Retail Outlets, Exhibition Firms, Promotional and Advertising Agencies.

Further Information
Mr John O'Connor,
Head, School of Art, Design and Printing
t: 01 402 4138
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e: facultyarts@dit.ie
w: http://www.dit.ie




£141,950

Design Technology DT516

Course Description

This course provides a practical training for students who wish to pursue a career as a Design Technician in the graphic design and electronic publishing industries. A Design Technician operates in support of a design team and works in the area between designer and client and takes a designer's rough concept and develops it to client visual stage.

Course Outline

The course is based around 3 areas of study. These are Design, Production Technology and Professional Practice.

Design: This area is an introduction to the main areas of 2 dimensional design. Students learn how to originate, develop and modify images through Photography, Illustration and Digital Imaging.

Production Technology: This area provides a practical grounding in the technologies that are relevant to the Graphic Design, Electronic Publishing and Print Industries.

Professional Practice: This area focuses on developing the students' communication skills so that they can operate effectively as members of a design team.

Duration:

Two years full-time

Location

DIT Rathmines Road,
DIT Mountjoy Square

Entry Requirements

Leaving Certificate with grade D3 or higher on ordinary level papers in at least five subjects or an acceptable equivalent standard of education **and** an appropriate portfolio of work (see page 13 for full details). Final selection is by means of portfolio review and Leaving Certificate. An interview may also be required.

Award

Certificate in Design Technology of Dublin Institute of Technology.

Career Opportunities

Design Technician in a graphic or web design company; advertising agency; prepress or print company; print bureau.

Further Information

Mr. John O'Connor
Head, School of Art, Design and Printing
t: 01 402 4138
f: 01 402 4297
e: facultyarts@dit.ie
w: http://www.dit.ie

Early Childhood Care and Education DT468

Course Description

This Diploma course is designed for those who hold a DIT Certificate in Early Childhood Care and Education or equivalent. It provides a qualification in advanced practice for those who aspire to senior positions in early years services. Course delivery is by two modes: full-time over one year or in-service over two years, with students attending college on two afternoons/ evenings per week. The course is designed for experienced staff who are interested in acquiring organisational/managerial skills and deepening their knowledge of early education. It takes account of the increased emphasis on family involvement by early years professionals and the important link between research and high quality services.

Course Outline

The course is made up of the following subjects:

- Organisation and management
- Assessment and management of children
- Comparative studies
- Counselling skills
- Curriculum
- Working with families
- Developmental play
- Social policy
- Research.

Duration

One year full-time or two years part-time, two afternoons and evenings per week. Intake every second year for the part time mode

Location

DIT Rathmines House.

Entry Requirements

It is envisaged that the majority of applicants will hold the DIT Certificate in Early Childhood Care and Education. However, applications will be considered from other qualified people with equivalent training. Applicants holding qualifications other than the DIT Certificate in Early Childhood Care and Education will be required to submit documentation of qualifications and education/ training. **Placement is an integral part of the course and Garda (Police) clearance may be required from students.**
Selection for the course will be made on the basis of an interview which will be held in June. The number of places is limited. Application must be made on the DIT Advanced Entry form which is available from the Admissions Office, Dublin Institute of Technology, 30 Upper Pembroke Street, Dublin 2. Completed forms must be returned on or before 31st March 2001 to the Admissions Office.

Award

Diploma in Early Childhood Care and Education of Dublin Institute of Technology.

Career Opportunities

Career advancement in the area of Early Childhood Care and Education.

Further Information

Secretary,
School of Social Science
t: 01 402 3454/402 3464
f: 01 402 3499
e: facultyarts@dit.ie
w: http://www.dit.ie

Media Production DT517

Course Description

This course is designed to provide students with the basic technical and operational skills necessary to produce creative and commercially useful media productions. Students are trained in video production, audio, photography, graphics and A/V production to high technical and creative standards. The course is project-focused with a practical approach to learning. Teaching methodology includes tutorials, seminars, workshops and practical demonstrations in video production, photography, graphics and audio recording. Students plan, produce, record and edit a variety of media programmes, including drama, documentary, magazine and A/V presentations.

In addition to a detailed study of media production processes students acquire a working knowledge of relevant technical theory, photography and video computer applications. Other areas of study include TV graphics, scripting, communications, film appreciation, media analysis, multimedia and business studies.

Course Outline

Subjects include Video Production, Linear and Non-Linear Video Editing, Photography, Graphics, Sound Recording, Script Skills, Communications, Technical Studies, Media Analysis, Computer Applications, Multi-Media and Business Studies.

Duration

Two years full-time.

Location

DIT Rathmines Road.

Entry Requirements

Irish Leaving Certificate with Grade D3 or higher on ordinary level papers in at least five subjects or an acceptable equivalent standard of education.

Award

Certificate in Media Production of Dublin Institute of Technology.

Career Opportunities

Graduates pursue careers with Video Production and Post-Production companies, TV and Radio Broadcasting organisations, Advertising and PR companies and Film Production companies.

Further Information

Mr Cecil Allen,
Course Leader
t: 01 402 4138
f: 01 402 4297
e: facultyarts@dit.ie
w: http://www.dit.ie

Music Foundation DT604

Course Description

This one year full-time course is suitable for students who have not satisfied the specific entry requirements for degree or diploma courses in Music. The course provides a comprehensive foundation in music for those intending to further their music studies. **Successful applicants will be required to pay a fee of approximately £960 (Euro 1218). The Free Fees Scheme does not apply.**

Course Outline

The subjects included in the course are first study, second study, Irish Traditional Music, ensembles (orchestra, band, choir, music theory and harmony), aural training, form, style and history, music criticism and concert attendance and introduction to music technology.

Duration

One year full-time.

Location

DIT, Chatham Row/Rathmines Road/Adelaide Road.

Entry Requirements

Leaving Certificate with passes in five subjects including Mathematics and English or Irish or an equivalent qualification. Applicants will be required to attend for audition/interview.

Further Information

Ms Paula Hughes,
Course Chair
DIT Chatham Row
t: 01 402 3590
t: 01 402 3599
e: facultyarts@dit.ie
w: http://www.dit.ie

Social Care Practice DT467

Course Description

This course is intended for
(a) those who wish to pursue a career in Social Care or (b) those who are already in paid employment in the field of Social Care in the greater Dublin region.

Course Outline

The course covers five domains:
(1) Understanding human development
(2) Understanding society and its institutions
(3) Principles and Professional Practice
(4) Self Development Programme
(5) Supervised Placement Practice

Duration

Three years full-time.

Location

DIT Rathmines House.

Entry Requirements

Students must have an Irish Leaving Certificate with a minimum of five passes including English. At least 10% of places will be reserved for mature and non-standard applicants. Such applicants may be interviewed and will be selected on the basis of relevant experience, personal characteristics and suitability for the course.There are two entry paths to this course-**direct entry** and **in-service entry**. **Direct entry** to the course is through the CAO. **In-service** entry to the course is through the Advanced Entry system and application forms are available from the Admissions Office, Dublin Institute of Technology, 30 Upper Pembroke Street, D2.

NOTE: Entry to the 3rd year of this course will be available (subject to demand) to applicants who have successfully completed a DIT certificate in Applied Social Studies or equivalent or who hold a degree in a relevant discipline.
Placement is an integral part of the course and Garda (Police) clearance may be required from students.

Award

Diploma in Social Care Practice of Dublin Institute of Technology.

Career Opportunities

This three year course leads to a professional qualification in Social Care Work. It replaces the former 2 year Certificate (DT470) and one-year Diploma in Applied Social Studies (DT471) and the three-year in-service Diploma in Social Care(DT461). It aims to train people to work with a range of client groups-children in care, people with learning disabilities, families in the community, people in day care centres, youth projects and programmes.

Further Information

The Secretary
School of Social Sciences
DIT Rathmines House
t: 01 402 3454/402 3464
f: 01 402 3464
e: facultyarts@dit.ie
w: http://www.dit.ie

Speech and Drama Studies DT603

Course Description

The three years of the Diploma course offer progressive experiences in theatre practice. Based at DIT Rathmines Road, the course enjoys the use of a fully equipped studio theatre on the site. This theatre is the venue for practical projects during the course, and houses graduation projects in the final year. Staff have expertise in contemporary drama and theatre practice, drama education, movement and contemporary dance, music theatre, film, and voice and speech studies.

Who should apply for this course?

Any person who has a commitment to acting, and intends to commit themselves to intensive study of the various aspects of professional performance work.

What is DIT looking for at audition?

In one word, potential. As Drama is not available as a discrete subject option at Leaving Certificate level in the Republic of Ireland, students have diverse profiles when they present for audition, and we like it that way. Openness, commitment and ability to work with others are core requirements.

Actors do not spend all their time working or preparing for performance.How does this course deal with that reality?

This course sets out to develop the student as a confident performer. Recognising the reality of actors' working lives, the course includes opportunities to study good practice in teaching Drama to learners from children to adults to special needs groups. Opportunities to work in radio and to camera are also included in the Diploma programme. This variety supports and enhances students' development as performers. It also broadens students' understanding of existing and developing applications of our art form in contemporary living. These course components qualify the graduate to work on artform related projects, many of which attract professional salary levels. A DIT Drama graduate is a confident theatre performer and a qualified practitioner in Drama.

Course Outline

First Year

This year concentrates on two group performance projects, in which students work on reinterpreting dramas from the classical world and from medieval times in the light of twentieth century practices and concerns. Studies in movement and voice begin, and foundation modules are taken in Education Studies.

Second Year

The focus shifts from large-scale performance projects to intensive, person-centred studio work. In this way, Year 2 seeks to develop the work introduced in the first year. Students engage with dramas from the renaissance world and from the English Restoration. There is a major project on contemporary Irish theatre. Cuirtear fáilte roimh dátheangachas agus obair chruthaitheach i nGaeilge ar an gcúrsa seo. Students undertake Radio Drama projects and a school-based education placement during this year.

Third Year

This year is an intensive mixture of group and individual projects. Each student participates as an actor in a graduation production. Each student completes a group project in a community/education context, and presents a dissertation of 8000-10000 words on a chosen area of interest. A 15 minute personal presentation becomes the basis for each person's contribution to a professional showcase performance. Students are introduced to acting to camera during this year.

Duration

Three years full-time.

Location

DIT Rathmines Road.

Entry Requirements

Irish Leaving Certificate in 5 subjects, two of which must be at grade C3 or higher, on higher level papers *or* equivalent qualification. Results must include English at either level. **Applicants are also required to attend for interview/audition, for which two works-one of which must be from a recent Irish play-must be prepared. Cuirtear fáilte roimh sliochtanna i nGaeilge insna triail seo.**

Mature Students

The Institute gives special consideration to admitting students who have reached the age of 23 on 1st January of the year of proposed entry.

Award

Diploma in Speech and Drama of Dublin Institute of Technology.
The Institute greatly appreciates the sponsorship by the ESB of the Dr Brendan Smith Theatre Award for excellence in performance. This award may be awarded in the second or final year of the course to a student of exceptional achievement.

Career Opportunities

Graduates will find employment as actors in theatre and music theatre, in broadcasting and as teachers/facilitators of community development and educational projects.

Further Information

Mr Victor Merriman,
DIT Rathmines Road
t: 01 402 3515
f: 01 402 3487
e: victor.merriman@dit.ie
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Harvard
Educational
Review
1998

Full-time courses in the Faculty of The Built Environment

Degree Programmes

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Architecture FT101

Course Description

This is a five year full-time course which prepares students wishing to make their careers in Architecture. The course covers a wide range of subjects and aims at a synthesis of knowledge gained from the use of these subjects in architectural design projects culminating in a Final Year Thesis in the design of a major building. Students are required to gain professional experience in architectural office practice during the summer vacations and, in this way, support their study and their ability to work individually, or as members of a team.

Course Outline

First Year

Studio Work, Physics 1, Chemistry 1, Mathematics and Statistics, Civilisation Studies 1, Theory of Architecture 1, Mechanics, Design Technology 1, Computer Applications.

Second Year

Studio Work, Building Materials, Design Technology II, Civilisation Studies II, Chemistry II, Physics II, Building Services, Structural Engineering, Computers, Studies in Space & Form.

Third Year

Studio Work, Environmental Science, Civilisation Studies III, Theory of Architecture III, Design Technology III, Structural Engineering II, History of Urbanism, Computer Applications.

Fourth Year

Studio work, Economics and Cost Control, Civilisation Studies IV, Structural Engineering III, Design Technology IV, Professional Practice, Urban Studies, Computer Applications.

Fifth Year

Studio Work, Economics and Cost Control, Professional Practice, General and Law, Thesis.

Duration

Five years full-time.

Location

DIT Bolton Street.

Entry Requirements

Leaving Certificate with passes in six subjects, at least two of which must be grade C3 or higher on higher level papers, or equivalent qualifications. The six subjects must include Mathematics and English or Irish. Applicants may be required to undertake a suitability test and if the appropriate standard is achieved, they may be interviewed as part of the selection process. The suitability test is usually held at Easter time, and the interviews in mid-May. **While a portfolio is not mandatory for the interview, it should be noted that most interviewees have a portfolio with them when being interviewed.**

Award

BArch of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Graduates are also eligible for Associate Membership of the Royal Institute of Architects of Ireland. Following two years of post graduate experience they may take the Institute's examination in Professional Competence and thus become members of the R.I.A.I. The DIT Degree in Architecture is a qualification which is recognised for the profession of architect in Member States of the European Union.

Career Opportunities

The qualification is for the profession of Architect. Architects are concerned with the design of buildings and supervision of building projects. They may practice in a personal professional capacity, or in employment in private and public sector organisations. The field of practice is quite extensive in Ireland and abroad and may offer alternatives of general practice or specialisation throughout a career. Some graduates spend time abroad to gain wider and more varied design experience.

The course and the career require a creative aptitude for architectural design and the organisational ability for its implementation in practice. The range of subject material in the course is wide, and calls for an interest and ability in artistic and cultural aspects as well as in technical matters and in managerial skills.

Further Information

Mr. James Horan
Department of Architecture and Town Planning
t: 01 402 3701

Construction Economics and Management (Quantity Surveying) FT111

Course Description

This is a four year full-time course which prepares students wishing to make their careers in Construction Economics. It is designed for those who wish to work as quantity surveyors and economics advisors in the construction industry or as building development co-ordinators and building managers. The course provides a sound general education in the different aspects of this field with emphasis on practical construction economy and, in consequence, the course incorporates much project work. Students are encouraged to gain industrial and professional experience during the summer vacations and in this way they are introduced to applying their technical knowledge to practical problems, working individually, or as a team.

Course Outline

First Year

Construction Studies 1 (Construction Technology; Building Science and Materials); Land Surveying; Quantity Surveying Studies 1 (Tender Documentation; Professional Development); Construction Economics 1; Financial Studies 1 (Quantitative Methods; Financial Management); Construction Law 1; Information Technology.

Second Year

Construction Studies 2 (Construction Technology; Building Services; Structures); Quantity Surveying Studies 2 (Professional Development; Tender Documentation; Estimating and Tendering); Construction Economics 2; Financial Studies 2 (Quantitative Methods; Financial Management); Construction Management; Construction Law 2; Information Technology.

Third Year

Construction Studies 3 (Construction Technology; Civil Engineering Technology; Building Services); Development Project; Quantity Surveying Practice 1 (Cost and Value Management; Tender Documentation; Contract Administration); Construction Economics 3; Financial Studies 2 (Financial Management); Construction Management 2; Construction Law 3; Information Technology.

Fourth Year

Quantity Surveying Practice 2 (Cost and Value Management; Tender Documentation); Construction Economics 4; Construction Administration and Management; College/Industrial Liaison; Student Organised Seminars; Undergraduate Thesis; Information Technology.

Duration

Four years full-time.

Location

DIT Bolton Street.

Entry Requirements

Leaving Certificate with passes is six subjects, at least two of which must be at grade C3 or higher on higher level papers or equivalent qualifications. The six subjects must include Mathematics and English or Irish.

Award

BSc (Surveying) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Upon successful completion of an assessment of Professional Competence, holders of these awards are eligible for Corporate Membership of the Society of Chartered Surveyors (Quantity Surveyors Division), the Institute of Civil Engineering Surveyors and the Architects and Surveyors Institute. The Chartered Institute of Building requires graduates to undergo an additional examination in management subjects and satisfy an interview board as to their professional experience before admitting them to membership. Graduates are also accepted for entry to appropriate postgraduate courses in Ireland and abroad.

Career Opportunities

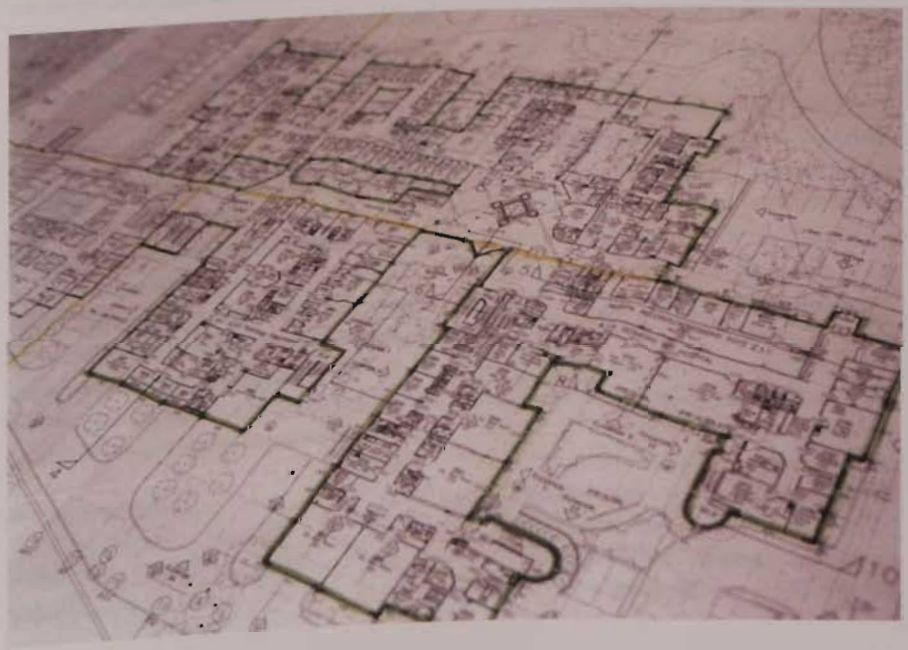
The qualification is for the profession of Chartered Quantity Surveyor, which includes occupations in the fields of Construction and Property Management. The Construction Economist is concerned with the more detailed aspects of construction and site development. S/he may specialise as a quantity surveyor, in which case s/he analyses building design for purposes of cost planning and later, detailed tendering and cost control.

Alternatively s/he may practice as a building manager with responsibility for the organisation of contracts, for labour, materials, plant, and negotiations with main and sub-contractors.

The courses and careers in the discipline of Surveying call for an interest and ability in the financial and legal aspects of the construction industry, and in the managerial skills applied to building and property development. In general, Construction Economics and Management Graduates have obtained employment in quantity surveyors' offices and in the construction industry with contractors and developers.

Further Information

Mr. Bernard Skelton
Department of Surveying and
Building Technology
t: 01 402 3677



Environmental Planning and Management FT116

Course Description

This innovative four year programme leads to an honours degree either in 'spatial planning' or in 'environmental management'. It is unique in Ireland. The programme throughout investigates from different points of view how the sustainable development of our society and economy can be attained. Both programmes embrace in different measures natural sciences, social sciences and design disciplines. Substantial use is also made of relevant information technology.

The emphasis is on educating students to interpret and use the results of scientific, technical and design studies to contribute to the formulation and implementation of policies and programmes rather than enabling them to gain a purely scientific, technical or design oriented understanding of the issues involved. The profession of spatial planning, known more traditionally as 'town planning', 'urban and regional planning' or 'environmental planning' is increasingly recognised as having a crucial role to play in contributing to achieving the sustainable development of our economy and society. The spatial planning degree gives a professional level qualification in this area and is currently the only undergraduate degree in Ireland to do so. Spatial planning graduates will, among other things, be equipped to contribute to the preparation of regional, county and urban development plans, the carrying out of development control, the preparation and evaluation of environmental impact assessments, the formulation and implementation of community development programmes and of rural resource management plans.

Environmental management is a new and developing profession based on the increasing recognition that the issues involved in sustainable development are typically more fundamentally social and economic than technical or scientific in origin. Environmental management graduates will, among other things, be equipped to contribute to the formulation and implementation of policies and programmes for the environmentally sustainable management of enterprises and organisations, the carrying out of environmental audits, the preparation and implementation of plans for waste management, resource management, occupational health and safety and environmental protection, the preparation and evaluation of environmental impact and risk assessments.

Course Outline

Students take all subjects in first year. In second and third years students take common subjects and additional subjects according to their specialism. In final year students pursue separate programmes of study. Project and fieldwork are an integral part of the course and in third year there is a field trip to another E.U. State. Students need to make financial allowance for this.

First Year

Introduction to Spatial Planning, Introduction to the Design Process, Landscape and Settlement, Physical Sciences, Biological Sciences, Economics and Sociology, Building Technology, Visual Communications and Survey Techniques, Computer Applications, Project.

Second Year

Common Subjects Public Administration and Law, Geographical Information Systems, Data Analysis, Communication Skills, Ecology, Environmental Science.
Spatial Planning only Urban Audit Project-Spatial Planning, Urban and Regional Development, Urban Design, Development Control Project,
Environmental Management only Urban Audit Project-Environmental Management, Principles of Environmental Analysis, Environmental Fieldwork, Environmental Economics.

Third Year

Common Subjects Natural Resource Management, European Context, Environment Society and Politics, Infrastructure and Sustainability, Data Collection and Evaluation Techniques.
Spatial Planning only Planning Law, Development Plan Project, Urban Design, GIS Applications-spatial planning, Planning Theory.
Environmental Management only Environmental Legislation, Environmental Management and Enterprises, Occupational Health and Safety, GIS Applications-environmental management, Environmental Control Technology.

Fourth Year

Spatial Planning Planning Techniques and Processes, Urban and Regional Planning, Transport and Communications, Property and Entrepreneurship, Rural Planning, EIA Project-Spatial Planning, Dissertation.

Environmental Management Environmental Management & Auditing Systems, Resource Management Planning, Risk Management, Landscape Management, EIA Project-Environmental Management, Dissertation.

Location

DIT Rathmines House.

Entry Requirements

Leaving Certificate in six subjects two of which must be at grade C3 or higher on higher level papers. Results must English or Irish.

Award

BSc (Spatial Planning) or BSc (Environmental Management) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours. The spatial planning degree course is being submitted to the Irish Planning Institute for graduates to become eligible for Corporate Membership.

Career Opportunities

Environmental Management

Environmental management graduates will find employment in both the public and private sectors where there is an increasing demand for suitably qualified people to service the developing areas of environmental legislation compliance and environmental management systems. This covers the increased social concern, legislation and quality assurance standards governing integrated pollution control licensing, health and safety, risk management, environmental impact assessment and environmental management and auditing systems. The development of areas such as strategic environmental assessment means that this demand is likely to broaden and deepen rather than diminish throughout our economy and society.

Spatial Planning

Spatial planning graduates will principally find employment as planners in local authorities and in private sector planning consultancies. Opportunities for planners also exist in a variety of other public and private sector organisations with an interest in the environmentally sustainable planning and management of the built environment.

There is a shortage in qualified planners in Ireland. The Planning and Development Bill 1999 when enacted will impose new demands on planning authorities and this will likely even further increase the demand for planners. A number of graduates from both degrees will each year proceed to further more specialised training and research and opportunities for this exist within DIT.

Further Information

The Course Tutor
t: +353 1 402 3502
e: donal.storey@dit.ie

Geomatics FT112

Course Description

This course prepares students for a career in Geomatics. Geomatics is a new term which collectively describes the many specialised activities related to surveying the earth's physical and man-made features. Geomatics is both science-based and engineering-based. It involves all aspects of the collection, management, analysis and visualisation of geo-spatial data for surveying and mapping. Geo-spatial data is data containing the geographic location of features on the earth's surface, together with attribute information describing what these features represent. It has many specialised fields of activity including land surveying, cartography, engineering and mine surveying, the use of satellites for positioning, and the production of computerised maps.

Both the career and the industry are highly technical and involve the use of an exciting range of surveying instrumentation, computers and software for measuring and processing geo-spatial data. DIT is the only third level institution in Ireland to offer a full-time degree in Geomatics. The department has well equipped laboratories and has the most advanced equipment to cater for all of the practical aspects of the course. Fieldwork plays an extremely important part of the course in all years.

The course covers a wide range of subjects designed to prepare graduates for a career in a growing industry with a diverse range of job opportunities. A strong emphasis is given to mathematical, scientific and computer skills to complement the measurement science subjects. A significant proportion of the assessment is based on project work. In the final year, the student may specialise in one of the following options: Geographical Information Management; Geodetic Surveying; Land Management.

The curriculum is also designed to give the graduate an appreciation of the environment, business and management skills, and professional practice. Students are encouraged and facilitated by the department in obtaining vacational work experience in Ireland and abroad.

Course Outline

First Year

Cartography, Survey Methods, CAD, Computer Studies, Instrumentation, Mathematical Methods, Science for Geomatics, Professional Development.

Second Year

Cartography, Engineering & Mine Surveying, Photogrammetry, Survey Methods & Instrumentation, Computer Studies, Mathematical Methods, Science for Geomatics, Statistics & Adjustment, Environmental Management, Professional Development.

Third Year

Cartography, Engineering & Mine Surveying, Geographical Information Systems, Land Administration, Photogrammetry & Remote Sensing, Geodesy, Mathematical Methods, Statistics & Adjustment, Environmental Management, Business & Management Studies.

Fourth Year (Options)

Geographical Information Management Option

Business & Management Studies, Data Visualisation & Management, Geographical Information Systems, Application Development & Software Customisation, Dissertation.

Geodetic Surveying Option

Business & Management Studies, Geodesy, Photogrammetry & Remote Sensing, Geospatial Data Management, Dissertation.

Land Management Option

Business & Management Studies, Land Administration, Land Information Systems, Environmental Management, Dissertation.

Duration

Four years full-time.

Location

DIT Bolton Street.

Entry Requirements

Leaving Certificate with passes in six subjects, at least two of which must be at grade C3 or higher on Higher Level papers, or equivalent qualifications. A minimum of grade B3 in Mathematics on the Ordinary Level paper is also required. The six subjects must include either Irish or English. Applicants who hold a recognised third level qualification in another discipline may also be considered for entry to the course subject to interview.

Award

BSc (Geomatics) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

The degree has been accredited by the Society of Chartered Surveyors (SCS/RICS), the Irish Institution of Surveyors (IIS), the Institution of Civil Engineering Surveyors (ICES) and the Construction Industry Board, UK. Graduates of the course are eligible to become Corporate members of these professional bodies.

Career Opportunities

If your interests are in working with high-tech surveying equipment and computers, if you have a strong preference for Mathematics, Science and Geography.and would like the combination of both outdoor and laboratory work, you should consider Geomatics as a career. Geomatics is an exciting and challenging career and offers a multi-faceted profession for both men and women. **Geographical Information Management** includes using the very latest computer hardware and software to acquire, manage, process and present geographic data for use in managing and developing both the natural and the built environment.

Geodetic Surveying is primarily concerned with the measurement and collection of spatial data. This would include land surveying, engineering surveying, mine surveying, photogrammetry, satellite positioning and data management.

Land Management is a key task in the planning and management of land use and requires core geomatic skills in addition to expertise in land administration, environmental management and land information systems.

Examples of career opportunities include Land Surveying, Civil Engineering Surveying, Mine Surveying, Hydrographic Surveying, Digital Cartography, Photogrammetry and Geographical Information Systems (GIS). Graduates may expect to find employment in both private and public sector organisations in Ireland and overseas.

Applicants should ideally have a strong preference for scientific and technical work and also have a liking for outdoor work. A good aptitude for Mathematics is desirable- a minimum of grade B3 (Ordinary Level) in Mathematics is required in the Leaving Certificate. Physics is desirable but not an essential requirement.

Further Information

Mr. Frank Prendergast
Department of Geomatics
t: 01 402 3674
e: frank.prendergast@dit.ie
w: www.dit.ie/built/gu

Property Economics (Valuation Surveying) FT110

Course Description

This is a four year full-time course which prepares students wishing to make their careers in Valuation Surveying, Property Auctioneering, Investment and Management and Estate Agency in Ireland and abroad. It is also suitable for those interested in Property Development, Town Planning and the general investment market. Graduates may be employed as valuers, estate agents, property consultants and investment advisors, developers and planners. The course provides an education in the financial, legal, planning and construction aspects of property in the context of the investment market in general and it provides students with a thorough understanding of the economic functioning of the built environment.

Course Outline

First Year

Urban Sociology, Economics, Quantitative Methods, Valuations and Professional Development, Land Surveying, Construction Technology, Law.

Second Year

Law, Construction Technology, Property Management and Marketing, Financial and Quantitative Analysis, Valuations, Planning, Economics.

Third Year

Taxation, Investment Analysis and Financial Accounting, Planning, Urban Economics, Valuations, Building.

During this year students may undertake a major integrated project on urban renewal/development.

Fourth Year

Planning, Urban Economics, Valuations, Investment Analysis. In the fourth year each student prepares a major dissertation as part of the final examination.

Duration

Four years full-time.

Location

DIT Bolton Street.

Entry Requirements

Leaving Certificate with passes in six subjects, at least two of which must be at grade C3 or higher on higher level papers or equivalent qualifications. The six subjects passed must include Mathematics and English or Irish.

Award

BSc (Surveying) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.
Upon successful completion of an assessment of professional competence, holders of these awards are eligible for Corporate Membership of the Society of Chartered Surveyors and the Royal Institution of Chartered Surveyors in the U.K. They are exempted from the Intermediate Examination of the Royal Town Planning Institute and are also accepted for entry to appropriate postgraduate courses in Ireland and abroad. The course is also recognised by the Irish Auctioneers and Valuers Institute.

Career Opportunities

The qualification is for the profession of Chartered Surveyor, which includes occupations in the fields of Auctioneering, Estate Agency and Property Valuation, Investment and Management.

Property Economists are concerned with the broader areas of land and property development, valuation surveying, estate management and town planning. They are employed in private and public organisations such as firms of auctioneers and estate agents, property development companies, valuation consultants, local authorities and the National Valuation Office.

The courses and careers in the discipline of Property Surveying call for an interest and ability in the financial and legal aspects of the property and construction industry, and in the managerial skills applied to building and property developments. To date, Property Economists have obtained suitable employment mostly in private practice, but also in areas such as the financial investment departments of banks and insurance companies.

Further Information

Mr. Martin Hanratty
Department of Surveying and
Building Technology
t: 01 402 3675

Architectural Technology DT102

Course Description

This is a three year full-time course leading to an Architectural Technology Diploma award. It aims to give the student a high standard of architectural and technical drawing and presentation, with a good knowledge of building construction, materials, methods and equipment. The course uses the project system extensively during which students are required to prepare working drawings, details, schedules for building work. Lectures in selected subjects such as Building Construction, Structures, Materials and Services are integrated with the projects as far as possible. During the summer vacation students are encouraged to obtain suitable practical work experience to complement their College training.

Course Outline

First Year

Building Technology, Mechanics and Structures, Building Services, Graphics, History and Theory of Architecture, Building Science and Materials, Computer Applications, Year's Work.

Second Year

Surveying and Levelling, Structures, Building Services, Building Technology, Building Science and Materials, System Building and Prefabrication, Computer Applications, Year's Work.

Third Year

Building Materials, Structures, Building Services, Building Technology, Architectural Practice and Procedure and Specifications, Computer Applications, Year's Work.

Duration

Three years full-time.

Location

DIT Bolton Street.

Entry Requirements

Leaving Certificate with passes in five subjects including Mathematics and English *or* Irish or an equivalent qualification. Applicants may be required to undertake a suitability test and if the appropriate standard is achieved, they may be interviewed as part of the selection process. The suitability test is usually held at Easter time and the interview in mid-May.

While a portfolio is not mandatory for the interview, it should be noted that most interviewees have a portfolio with them when being interviewed.

Award

Architectural Technology Diploma of Dublin Institute of Technology. This Diploma is recognised for Technician Membership by the Royal Institute of the Architects of Ireland. It is also recognised for Associate Membership of the British Institute of Architectural Technicians (BIAT) in the U.K. and for full Membership subject to approved postgraduate experience. This course is currently being considered for upgrading to Degree level.

Career Opportunities

The majority of graduate Architectural Technicians are employed in private professional architectural offices. Other areas of employment are the architectural and technical sections of Government Departments, Semi-State bodies, Local Authorities, and the building industry generally, with contractors and manufacturers. A number choose to work overseas for a few years to gain useful and wider experience.

Further Information

Mr. James Horan
Department of Architecture and Town Planning
t: 01 402 3701

Auctioneering, Valuation and Estate Agency DT116

Course Description
This course has been developed to prepare students for Certificate awards in Auctioneering and Estate Agency after two years of full-time study. Those who achieve the required standard in the Certificate may proceed to the Diploma stage, for which they are required to undertake a prescribed course of study and course assignments.

Course Outline
First Year
Valuations, Quantitative Methods, Economics, Law, Marketing, Building Construction, Financial Management.

Second Year
Valuations, Quantitative Methods, Property Management, Professional Practice and Procedure, Building Construction, Law, Planning, Financial Management and Taxation.

Third Year
Valuations, Building Construction, Land Use Economics, Art, Architecture and Design, Marketing and *European Investment* Markets and a Feasibility Study.

Duration
Two/three years full-time.

Location
DIT Bolton Street.

Entry Requirements
Leaving Certificate with passes in five subjects including Mathematics and English or Irish *or* an equivalent qualification.

Award
Certificate in Auctioneering, Valuation and Estate Agency of Dublin Institute of Technology after two years and **Diploma in Auctioneering, Valuation and Estate Agency** of Dublin Institute of Technology after a further year.

The Diploma course is recognised by the Irish Auctioneers and Valuers Institute (IAVI), the Institute of Professional Auctioneers and Valuers (IPAV), and also the Society of Chartered Surveyors (SCS). These are professional bodies in the field of Auctioneering and Estate Agency in the Republic of Ireland.

Students with the Diploma may pursue their studies to degree level by applying for entry to the Property Economics Degree course (FT110) or by obtaining advanced entry into related degree courses in the U.K. This course provides a route to obtaining membership of The Society of Chartered Surveyors, the Royal Institution of Chartered Surveyors in the U.K., and also the Irish Auctioneers and Valuers Institute.

Career Opportunities
The course is suitable for those wishing to prepare for a career as an auctioneer, estate agent and property valuer and aims to give an understanding of the legal, economic and physical framework within which the property market functions. It also aims to give the basic skills needed to practice as an auctioneer.
Auctioneers and Estate Agents are involved in the sales, lettings, management and valuation of property. Generally, they work either in partnerships or practice on their own account. The career is suitable for those with an interest in people and in the built environment. Other desirable character traits are an outgoing nature together with an ability to get on with people.

Further Information
Mr. Martin Hanratty,
Department of Surveying and Building Technology,
t: 01 402 3675

Buildings Maintenance Technician DT171

Course Description

This two year full-time course has been developed to prepare students for a Technician Certificate award in Buildings Maintenance.The programme extends over the full academic session from September to June. The course has a good balance between the theoretical and practical aspects of the building industry and participants are given an appreciation of a range of construction skills. Students are encouraged to spend the summer vacation gaining practical work experience in the areas of Building Maintenance and Inspection, Building Supplies, Technical Sales and related activities.

Course Outline

First Year

Mathematics, Building Science and Materials, Building Services, Quantities/ Building Defects/Evaluations, Construction Technology, Business Administration, Maintenance Management Systems, Construction Drawing, Complementary Studies/Communications, Computing, Construction Skills: Bricklaying, Carpentry, Electrical Work, Plastering, Painting, Plumbing.

Second Year

Mathematics, Building Science, Building Services, Construction Technology, Quantities and Estimating, Building Law and Regulations, Business Administration, Construction Project, Maintenance Management Systems, Rehabilitation and Conservation Techniques, CAD/Computing, Complementary Studies/Communications.

Duration

Two years full-time.

Location

DIT Bolton Street.

Entry Requirements

Leaving Certificate with passes in five subjects including Mathematics and English or Irish *or* an equivalent qualification.

Award

Buildings Maintenance Technician Certificate of Dublin Institute of Technology.

Career Opportunities

The Buildings Maintenance Technician may find employment in a variety of areas such as Buildings Maintenance, Maintenance Contract Administration, Building Inspection, Building Supplies and DIY Sales, Technical Sales, Trainee Estimating, Purchasing Officer. There may also be opportunities in this area for self employment.

Further Information

Mr. Fred Hosford,
School of Construction
t: 01 402 4016

Construction Technology DT114

Course Description
This is a three year full-time course leading to a Construction Technology Certificate award after two years and a Diploma award on completion of an additional year. It is designed to meet the needs of the construction industry for technical staff who have a sound understanding of the principles of construction and construction materials, together with a good appreciation of management skills and the economics of the industry.

Course Outline
First Year
Financial Management I, Building Materials and Environmental Science, Mathematics, Construction Technology I, Land Surveying I, Quantity Surveying I, Coursework.

Second Year
Construction Technology II, Quantity Surveying II, Financial Management II, Land Surveying II, Estimating, Contract Law and Economics, Coursework.

Third Year
Quantity Surveying III, Building Management, Economics, Law of Tort, Construction Technology III, Contract Administration, Coursework.

Students are encouraged to gain industrial experience during the summer vacation.

Duration
Two/three years full-time.

Location
DIT Bolton Street.

Entry Requirements
Leaving Certificate with passes in five subjects including Mathematics and English or Irish *or* an equivalent qualification.
For entry to third year (Diploma stage), applicants are expected to have reached a good standard at the end of the Certificate or second year, or possess an equivalent qualification acceptable to the Institute.

Award
Construction Technology Certificate of Dublin Institute of Technology.
Construction Technology Diploma of Dublin Institute of Technology.

Holders of the Diploma are exempt from the Formation Studies and part of the Core Studies examinations of the Chartered Institute of Building. The Architects and Surveyors Institute admits holders of the Diploma to Licentiate Membership.

Career Opportunities
These awards are particularly suitable for those who wish to attain positions relating to production planning, purchasing, quality control, estimating, surveying, inspection and general administration in the construction industry. They also provide a suitable background for those who wish to make their careers in building in the public sector (i.e. Central and Local Government). The majority of graduates work in building contracting or sub-contracting firms as Estimators, Quantity Surveyors, Programmers, Planners, Contract Managers and Site Managers. Many have attained a high level in management where they are now executive directors or managing directors. Other graduates are working for consultants in various capacities.

Further Information
Mr. Bernard Skelton
Department of Surveying and Building Technology
t: 01 402 3677

Full-time courses in the Faculty of Business

Degree Programmes

74	Business Studies	FT351
75	Information Systems Development	FT354
76	International Business & Languages (French)	FT255
76	International Business & Languages (German)	FT256
76	International Business & Languages (Spanish)	FT257
78	International Business & Languages (English)	FT258
80	Management and Marketing	FT542
82	Marketing	FT541
84	Retail and Services Management	FT543
86	Transport and Logistics	FT358

Diploma/Certificate Programmes

88	Business Management	DT524
89	Business Studies	DT315
90	Management	DT521
91	Marketing	DT503
92	Marketing and E Business	DT502
93	Retail Enterprise Management	DT523
94	Retail Marketing	DT522
95	Security Management	DT525

Business Studies FT351

Course Description

This four year degree course provides a combination of general and specialised education for business. It is designed to prepare students for ultimate advancement to responsible posts in business by helping them to obtain relevant qualifications and to apply their acquired knowledge and analytical skills to the solution of business problems.

Course Outline

First Year

Accounting, Information Technology Foundation Course, Mathematics, Economics, Management, Contract Law, Communications, Statistics, European Studies.

Second Year

Financial Accounting, Information Systems, Management Accounting, Management Science, Economics, Operations Management, Marketing, Business and Company Law.

Third Year

Taxation, Financial Reporting, Human Resources Management, Organisation Development, Management Information Systems, Corporate Finance and electives from the following subjects: Management Accounting, Auditing, Marketing, Macroeconomic Theory and Policy, European Union and Corporate Financial Management Law.

Fourth Year

Strategic Management and Business Policy, Communications, Corporate Finance and electives from the following subjects: Management Accounting, Taxation, Marketing, Financial Reporting, European Union Law and Economics, Derivatives, Financial Institutions and Financial Services, Mathematics for Finance and Econometrics and International Finance and Monetary Economics. In addition, students submit a dissertation on an approved topic.

Duration

Four years full-time.

Location

DIT Aungier Street.

Entry Requirements

Applicants will be required to hold the Leaving Certificate with at least grade C3 in two Higher level subjects and at least grade D3 in four Ordinary or Higher level subjects. These subjects must include English or Irish and Mathematics.

Award

BSc (Management) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

Students who have completed the Business Studies Programme are following a wide range of careers in the business and commercial world. It is anticipated that many graduates will take up employment in an accounting function and qualify for membership of one of the professional accounting bodies. Other career areas will depend on the special interests and abilities of graduates. The Institute provides advice and guidance for all students and operates a highly successful placement system in co-operation with employers.

Further Information

School of Accountancy and Finance
t: 01 402 3097

Information Systems Development FT354

Course Description

The BSc in Information Systems Development is a four-year honours programme which is designed to produce highly-skilled software professionals with a thorough understanding of business systems.The aim of the software development stream is to be relevant and industry-focused while retaining the level of rigor necessary to produce quality software. The structure of the programme matches best current practice, with first-year students studying Object-Oriented Design as their introduction to software development. This foundation enables progression to relatively new disciplines such as Component-Based Development by third year. The business studies stream is tightly integrated with the software development stream, with software assignments chosen from the business domain. This also provides an industry focus as the vast majority of real-world software projects are business-related.

Course Outline

First Year

Software Development I, Object Oriented Design, Computing Fundamentals, Communications, Financial Accounting, Management I, Mathematics I.

Second Year

Software Development II, Algorithms and Data Structures, Algorithms and Data Structures Implementation, Database Systems, Economics, Cost and Management Accounting, Management II, Mathematics II.

Third Year

Law, Marketing, Management Science, Systems Analysis, Enterprise Databases, Systems Analysis, Component Based Development, Data Communications, Systems Software.

Fourth Year

Business Policy, Strategic Information Systems, Software Patterns, Distributed Information Systems, Knowledge Based Systems, Software Quality Assurance, Final Year Project.

Duration

Four years full-time.

Location

DIT Aungier Street.

Entry Requirements

The Leaving Certificate in six subjects at least two of which must be at grade C3 or higher on higher level papers. In Mathematics a minimum grade of D3 on the higher level paper or B1 on the ordinary level paper is required. In English or Irish a minimum grade of D3 on the higher level paper or B2 on the ordinary level paper is required.

Award

BSc (Information Systems Development) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

This course is designed to produce graduates capable of pursuing careers as software developers and managers in the commercial software industry. It should also facilitate those wishing to pursue a range of other information technology related careers.

Further Information

School of Management
t: 01 402 3031
e: ft354-info@dit.ie

International Business and Languages FT255 FT256 FT257

Course Description

This degree programme is a conjoint course between the Faculty of Business and the Faculty of Applied Arts, with 50% of the contact hours devoted to two languages and 50% devoted to business subjects. The two key characteristics of this full-time, four year degree programme are the opportunity to study two foreign languages with a full range of business subjects, and to spend the third year abroad. Students achieve a high level of linguistic proficiency in the first foreign language of their choice, enabling them to engage in a variety of business tasks in that language. They also achieve a good working competence in a second foreign language taken at beginner or intermediate level. The year spent abroad is of paramount importance. It is spent either wholly in study at a partner institution or in study combined with an approved work placement. While application is made on the basis of the student's choice of first foreign language, the business curriculum is common to all language streams. The appropriate codes are as follows:

Major Language:	Apply for:
French	FT255
German	FT256
Spanish	FT257

An additional course (FT258) is also being offered which has English as the major language. This course, however, is available only to students whose mother tongue is not English or Irish. Such students must demonstrate a minimum competence level in English. The following second language options are currently on offer, subject to minimum numbers: French or German at post Leaving Certificate level and Italian, Russian or Spanish at beginners' level.

Course Outline

First Year

First Language Language accuracy training in oral/written communication; self-learning skills (reading, listening and writing strategies) translation into English; socio-economic, political, historical and cultural background studies; comparative studies of Irish and target cultures.

Second Language Overview of cultural, social, historical aspects of target country; geography, demographic trends, survival skills in oral and written language; information-seeking techniques, use of reference works.

Business Modules Financial Accounting, Business Communication, Management, Micro and Macroeconomics, Marketing, Computer Studies.

Second Year

First Language Language accuracy training in oral/written communication; self-learning skills (business correspondence, report writing, presentations); translation of business texts into English; business and economic background studies; intercultural awareness; preparation for year abroad.

Second Language Focus on selected background topics, promotion of self learning techniques, task-based oral communication, personal and social correspondence, writing skills, comparative grammar, translation into English.

Business Modules Management Accounting, Market Research, Human Resource Management, Business Law, European Integration, Corporate Finance, Consumer Behaviour, Strategic Management, European Law, Management Information Systems.

Third Year

College placement or college placement **plus** an industrial placement. The modules will be chosen from the range of business, language and other electives available in the partner institutions.

Fourth Year

First Language Case studies; presentations and product promotions; translation/interpreting; commercial and current affairs reflected in foreign media; comparative cultural studies; business reporting; language sensitising.

Second Language Commercial background, major commercial institutions, basic interpreting, interview techniques, product promotion, translation of commercial documents into English.

Business Modules International Corporate Finance, International Marketing, International Management, Technology and Business, Professional Development, Business Project.

Entry Requirements

Leaving Certificate in six subjects including English or Irish and Mathematics, with grade C1 or higher in two subjects on higher level papers, one of which must be French for FT255, or German for FT256, or Spanish for FT257 *or* such qualification as the Institute may deem equivalent. Applicants for FT258 should see separate entry in this publication.

Duration

Four years full-time.

Location

DIT Kevin Street.

Award

BA in International Business and Languages of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

In view of the increasing globalisation of world markets and the dependency of the Irish economy on international trade, it is essential that Ireland develop the skills required for business to thrive. This course is designed to provide those skills to students who see themselves working in the increasing number of companies, both Irish and international, operating in this global environment. Students who successfully complete the course will be able to play their part in seeking out these exciting new markets. Through the integration of language and business skills, graduates of this programme are also suited to the demands of small and medium sized enterprises, which are so important to the overseas expansion of Ireland's business activities. Graduates gain access to the jobs market at middle-management level from which they may progress to more senior positions. They may also opt for further studies or research.

Further Information

Ms Helene Conway,
Head, School of Languages
t: 01 402 4673
f: 01 402 4987

International Business and Languages (English) FT258

Course Description

This is a full-time, four year Honours degree programme. Its two main components, languages and business, are of equal weighting and importance. Students achieve a high level of linguistic proficiency in the first foreign language (English), enabling them to engage in a variety of business tasks. They achieve a good working competence in a second foreign language which is taken at beginner's or intermediate level. Students on this stream spend the third year studying approved modules on other DIT programmes. There is also the possibility of spending a practical semester in an approved company in Ireland or the country of their second language. The business curriculum followed is identical to that of the other intake streams: French FT255, German FT256 or Spanish FT257. The following second language options are currently on offer, subject to minimum numbers: **Beginners' level:** Italian, Russian, Spanish.
Intermediate level: French, German.
Students may not study their native language as a second language.

Course Outline

First Year

English Language accuracy training in oral/written communication; self-learning skills: reading, listening/writing and oral communication strategies; socio-economic, political, historical and cultural background studies; comparative studies of home and Irish cultures.

Second Language Overview of cultural, social, historical aspects of target country; geography, demographic trends, survival skills in oral and written language; information-seeking techniques, use of reference works.
Business Modules Financial Accounting, Business Communication, Micro Economics, Macro Economics, Management, Marketing, Computer Studies.

Second Year

English Language accuracy training in oral/written communication; self-learning skills; business correspondence, report writing, presentations; business and economic background studies; intercultural awareness; preparation for work placement.
Second Language Focus on selected background topics; promotion of self-learning techniques; task-based oral communication; personal and social correspondence; writing skills; comparative grammar.
Business Modules Management Accounting; Market Research; Human Resource Management; Business Law; European Integration; Corporate Finance; Consumer Behaviour; Strategic Management; European Law; Management Information Systems.

Third Year

A range of modules on other DIT courses will be on offer. The modules will be chosen from a range of business, language and other electives available.

Fourth Year

English Language case studies; presentations and product promotions; commercial and current affairs reflected in foreign media; comparative cultural studies; business reporting; language sensitising.
Second Language Commercial background, major commercial institutions, basic interpreting, interview techniques, product promotion.
Business Modules International Corporate Finance, International Marketing, International Management, Technology and Business, Professional Development, Business Project.

Duration

Four years full-time.

Location

DIT Kevin Street.

Entry Requirements

A pass in an examination which permits entry to third-level education in the home country which includes a pass in Mathematics, English and mother tongue (which must not be English or Irish). A documented ability in the English language at least equivalent in level to the Cambridge First Certificate Examination is also required. In certain cases the School may insist on an oral examination. Application should be made directly to the Institute on or before 31st May 2001. Suitably qualified applicants may apply for entry to the 2nd or 4th years of the course using the Advanced Entry system. Full details are available from the School of Languages.

All non-EU applicants must comply with Irish immigration requirements. Details are available from the Irish Embassy or from the Department of Foreign Affairs, Visa Section, 69-71 St. Stephen's Green, Dublin 2. t: +353-1-478 0822.

Award

BA in International Business and Languages of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

In view of the increasing globalisation of world markets and the dependency of the global economy on international trade, it is essential that students develop the linguistic and business skills required. Students who successfully complete the course will be able to help companies develop their strategies in seeking out exciting new markets and expanding within them. Since there is constant interaction between languages and business, graduates of this programme are equally suited to the demands of all business organisations from small and medium sized enterprises to multinational concerns. This undergraduate course also provides an ideal foundation for further studies or research in business throughout the English-speaking world.

Further Information

Secretary, School of Languages
t: 01 402 4673
f: 01 402 4987
e: denise.murray@dit.ie

Management and Marketing FT542

Course Description

This four year degree course aims to develop the knowledge and skills necessary for an exciting career in marketing, financial services and general management. The programme is designed to develop advanced specialist professional and managerial skills.

Unique Features of this Degree

-In-Company Placement
-Company Based Project Work
-Substantial Professional Exemptions
-Language Option - German or French*.
-Option to study abroad during year 2

Course Outline

First Year

Marketing, Administration, Accounting, Communications, Economics 1, Organisational Behaviour, Quantitative Studies, Information Technology and a Continental Language or EU Policy.

Second Year

Marketing Communications, Marketing Research, Economics 2, Business Law, Financial Accounting/Costing, Operations Research, Information Technology and a Continental Language or Operations Management.

Study Abroad

During the second year of the course we offer students the following options:

- students may pursue the course within DIT, taking all the subjects listed above
- students taking a language may study in either France or Germany for the full academic year
- students not taking a language may study or the full academic year in an Institution in continental Europe which provides instruction through the medium of English. The option of studying abroad will be available to approximately half of the class cohort.

Third Year

Marketing Management and Planning, Buyer Behaviour, Management Accounting, Management and Strategy, Company Law, Management Information Systems and a Continental Language or Supply Chain Management.

In-Company Placement

In-company job placement is a particular feature of this course. At the end of third year, over the summer period as an integral part of the course, students undertake a minimum of four months paid job placement in Ireland, organised, managed and monitored under the LINKS Placement Programme. Students are allocated an individual mentor and the full support of the LINKS Programme Officer. Placement gives students an opportunity to apply marketing and business practices at first hand in a work area of their choice. It is an invaluable preparation for their careers. Students have an opportunity to work in areas which include marketing research, advertising support, financial services, database and direct marketing and personnel management support.

Fourth Year

Marketing (Case Study), Finance, Business Policy, Human Resource Management, Financial Services, Enterprise, Taxation, Research Methods and a major Research Project.

Duration

Four years full-time.

Location

DIT Mountjoy Square. It is likely that when students enter the third and final years of the Programme they will be located in the new Faculty of Business facility at DIT Aungier Street.

Entry Requirements

Irish Leaving Certificate in six subjects, at least two of which must be at grade C3 or higher on higher level papers. Mathematics and English or Irish must be included at either level. *Students who wish to take the language option must have achieved a grade C1 or higher on the higher level paper in French or German

Award

BSc (Management) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Exemptions

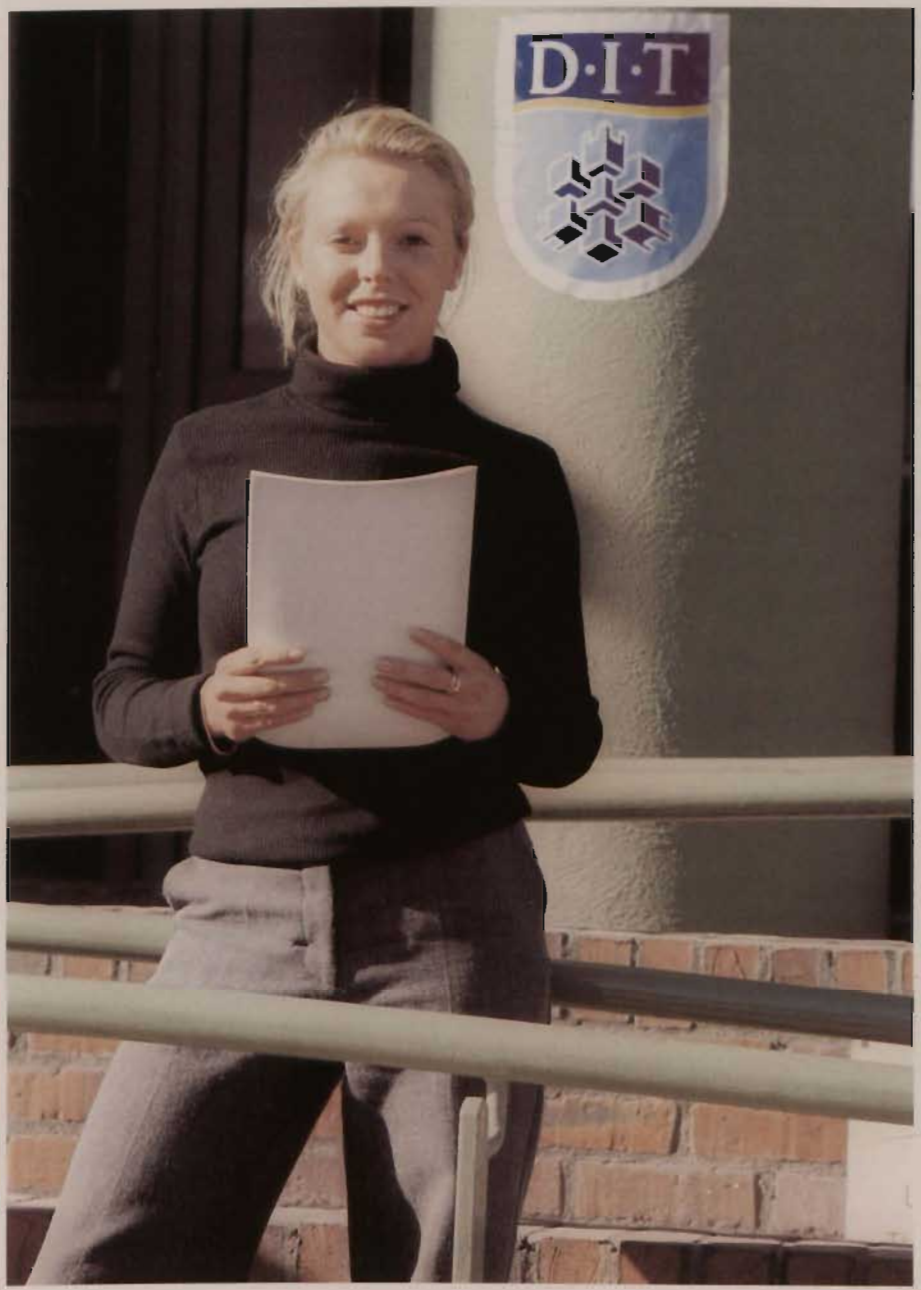
Holders of the Degree are eligible for generous exemptions from the Chartered Institute of Management Accountants, The Institute of Taxation, The Marketing Institute of Ireland and the Chartered Institute of Secretaries and Administrators.

Career Opportunities

Students who have completed this innovative Degree course are enjoying significant career opportunities in business and commercial undertakings in areas such as General Management, Marketing and Sales Management in small and medium sized enterprises. Other career options include Taxation, and Management in larger organisations, particularly in the Financial Services sector.

Further Information

James Wrynn
School of Marketing
t: 01 402 4133



Marketing FT541

Course Description

This four year degree programme will prepare you for an executive career in marketing, international business or in management by providing a solid foundation in the fundamentals of modern business together with an intellectually demanding study of the various facets of marketing.

Unique Features of this Degree

Specialist Options
Case Study Teaching
Dissertation

Specialist Options

In order to enhance your future career, specialisms have been developed which reflect changing employment opportunities in the market place. These include:
Services Marketing
International Business/Language
Management of Sales
Entrepreneurship
Business to Business Marketing
Direct Marketing.
The International Business/Language option is only available to those with a minimum grade B3 in Higher Level Leaving Certificate French or German and will normally provide an opportunity for Erasmus/Socrates exchange students to study abroad in year two of the course.

Case Study Teaching

Case studies, the examination of real life marketing and business problems, are used extensively throughout the course. This rigorous but very popular mode of learning, appropriate to students in the advanced stages of their studies, develops problem solving, decision making and team working skills, all of which are vital for effective performance in management teams.

Dissertation

This provides an opportunity to undertake practical marketing research. Students work under the guidance of an academic supervisor researching consumer issues or business problems. The dissertation fosters independent learning and self motivation and allows students to deepen their knowledge of a specific area of marketing. In addition to these unique features the course is also characterised by strong industry linkages, close contact with lecturers, positive career guidance and a student-friendly ambience.

Course Outline

First Year

Marketing, Accounting, Economics, Social Scientific Perspectives on Marketing, Quantitative Methods, Information Systems 1, Continental Language or EU Policy, Communications and Legal Aspects of Marketing.

Second Year

Marketing Research, Statistics, Communications, Marketing Practice, Macro-Economic Environment, Information Systems 2, Management, Managerial Accounting.

Third Year

Core Subjects: Consumer Behaviour, Strategic Marketing, Marketing Communications, Marketing Research Applications, Information Systems 3, Finance, Operations Research, Economics of Business.

Options

Services Marketing Option
Services Marketing, Services Information Management, Services Management.
International Business/Language Option:
International Business, Language (French or German).
Management of Sales Option:
Selling, Purchasing, Management of Sales.
Entrepreneurship Option:
New Enterprise Development, Small Business Management, Entreprenuerial Studies.
Business to Business Marketing Option:
Industrial Product Management, Procurement Management, Supply Chain Management
Direct Marketing Option: Direct Marketing, Direct Marketing Database Management, Direct Marketing Applications.

Fourth Year

Marketing Case Study, Consumer Behaviour, Business Policy, Finance Case Study, Marketing Models. Students are also required to undertake a major research dissertation.

Duration

Four years full-time.

Location
DIT Mountjoy Square. It is likely that when students enter the third and final years of the Programme they will be located in the new Faculty of Business facility at DIT Aungier Street.

Entry Requirements
Leaving Certificate in six subjects, three of which must be at grade C3 or higher on higher level papers, with grade C3 or higher on ordinary level papers in English or Irish and Mathematics.

Award
BSc (Management) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities
The Degree provides significant career opportunities in areas such as Marketing Management, Brand Management, International Marketing, General Management, Advertising, Market Research, Promotion, Sales, Direct Marketing, Services Marketing, Enterprise, Industrial Marketing and Sales Management.

Further Information
School of Marketing
t: 01 402 4135

Retail and Services Management FT543

Course Description

The retailing and the related service sectors are the most rapidly growing areas of the economy and they provide challenging and rewarding careers for graduates. The DIT School of Retail and Services Management has offered a range of courses specialising in retailing, distribution management and services management for over half a century and now offers an innovative Honours Degree programme which has been designed in consultation with major Irish and international retailers and financial services providers.

Unique features of this Degree

-Innovative in design and delivery
-Integrated industry experience through placement
-Major options in fourth year
-Focus on Information Technology.

Retailing represents a fast moving and rapidly expanding area of opportunity for Degree holders. It has become a complex and demanding business sector driven by globalisation, the application of computer technology and consumer sophistication. Retail management techniques have been widely adopted by other services industries such as Banks and Building Societies and the demand for high calibre graduates to lead future development has never been greater. For instance in the U.K. some twenty-one Universities offer retail programmes at Undergraduate and Postgraduate levels. The Degree in Retail Management has drawn upon the best international Degree programmes in order to serve a rapidly changing Irish retailing and services environment.

Innovative in design and delivery

The programme aims to equip students with analytic and managerial competence and produce graduates who are computer literate and are highly effective in interpersonal situations. It is emphasised that information technology will not just be an important subject area but will permeate all elements of the programme. The inclusion of Electronic Business, Servicescape and Entrepreneurial Studies will furthermore make for a vibrant and challenging programme of study.

Integrated Industry Experience

Students will have the opportunity to experience periods of work placement during the programme and these will be fully integrated into the learning and assessment scheme. Placements will be designed and implemented through cooperation with the industries served. The placement will allow students to gain meaningful work experience in a controlled, monitored situation. In the fourth year each student will complete a dissertation which will draw significantly upon the work experience.

Options in Final Year

Students in final year opt for two of five main areas of specialism.

-New Technologies
-Electronic Marketing
-Financial Services
-Entrepreneurial Studies
-International Retailing

Course Outline

(See diagram on next page).

Duration

Four years including integrated industry experience.

Location

DIT Mountjoy Square. It is likely that when students enter the third and final years of the Programme they will be located in the new Faculty of Business facility at DIT Aungier Street.

Entry Requirements

Leaving Certificate in six subjects with two subjects at grade C3 or higher on higher level papers and grade C3 or higher on ordinary level papers in English or Irish and Mathematics.

Award

BSc Retail and Services Management of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

The Retailing and the Services Sectors represent two of the areas of fastest growth in employment terms. The specialised and focused nature of this programme provides a fast-track entry to management careers in these and other sectors.

Further Information

School of Retail and Services Management
t: 01 402 4143

Course Outline

Option Subjects shown in bold
Year 3: One option to be Selected
Year 4: Two options to be selected

Year 1	Year 2	Year 3	Year 4
Retail Operations Management	Personal Selling/Consumer Relations	Buying and Merchandise Management	**International Retailing**
Management of Services	Services Quality Management	Logistics	Supply Chain Management
Management Theory	Organisational Behaviour	Human Resource Management	Strategic Management
Marketing Theory	Marketing Research & Consumer Behaviour	**Marketing Communication**	**Electronic Marketing**
Information Technology	Retail Information Technology	Electronic Business	**Implementation of New Technologies**
Financial Control & Planning	Financial Analysis	Corporate Finance	**Financial Services**
Economics	Statistics	**Servicescape Studies**	Retail & Services Case Studies
Interpersonal Skills	Cultural Studies	Premises Location & Management	International Management
Business Law	Enterprise Development	Work Placement	**Entrepreneurial Studies**
		Research Methodology	Praxes
			Dissertation

Transport and Logistics FT358

Course Description

The management of logistics concerns the movement of goods and information through the value chain from materials acquisition to final consumption. It is widely recognised as a critical contribution to the competitive competence of firms. For an island economy dependent upon exports, the effective management of logistics is crucial. Business logistics have been identified by government as a key issue in maintaining and enhancing the competitiveness of our economy in the decades ahead. DIT has been identified as the national centre of excellence in transport and logistics in Ireland with the establishment of the National Institute of Transport and Logistics. Business logistics is a challenging and dynamic area of management which offers significant career opportunities.

Course Outline

First Year

Introduction to logistics and marketing, Introduction to transport systems, Economics and international business environment, Mathematics and statistics, Information management (Computers), Warehouse and inventory management, Applied transport economics, Business management, Accounting and costing.

Second Year

Operations management, Value chain logistics, Transport operations, Commercial and transport law, Statistics and quantitative techniques, Information Management, Marketing.

Third Year

Applied logistics, Purchasing and procurement, Human resource management, Finance, Information management, Work placement.

Fourth Year

Global supply management, Transport and society, Business strategy and the management of change, Research methodology, Dissertation.

Duration

Four years full-time

Location

DIT Aungier St.

Entry Requirements

Leaving Certificate with at least grade C3 in two higher level subjects and at least grade D3 in four ordinary or higher level subjects. These subjects must include English or Irish and Mathematics.

Award

BSc in Transport and Logistics of Dublin Institute of Technology

Career Opportunities

Materials Manager, Warehouse Manager, Transport Manager, Production Planner, Customer Service Manager, Logistics Manager, Stock Controller, Purchasing/ Procurement staff, Sales Forecasting.

Further Information

School of Management
t: 01 402 3031

Business Management DT524

Course Description

This one-year follow-on Diploma has a General stream with electives and a separate Security stream with its own subjects and electives. The General stream is both broadly based and academically rigorous, and is designed to give further in-depth business education to those who have already completed a two year business certificate such as DT503, DT521, DT522 or DT523. The Security stream is aimed at those who have completed DT525 and who wish to advance their career prospects within their specialist security area. The Diploma will provide students with the knowledge on which they can further develop the expertise necessary to become successful managers.

Duration

One year full-time

Location

DIT Mountjoy Square.

Entry Requirements

Applications will be considered from holders of a DIT or NCEA Certificate with Merit or Distinction in appropriate business subjects. Places are limited and application should be made through the DIT Advanced Entry System in March each year.

Award

Diploma in Business Management of Dublin Institute of Technology.

Course Outline

General Stream

- Business Policy
- Financial Management
- Marketing Strategy
- Retail Management
- E-Business Management

Electives (3)

- Human Resources Management
- International Business
- Supply Chain Management
- Management Accounting
- Marketing Communications
- Property Management

Security Stream

- Business Policy
- Security Operations Management
- Audit and Investigations
- Computer Security
- Risk Management

Electives (3)

- Human Resources Management
- Security Law
- Insurance
- Applied Security Science
- Property Management

Further Studies Opportunities

Those completing the General stream of this Diploma with Merit or Distinction may apply to be considered for transfer to:

- BSc in Retail and Services Management (FT543)
- BSc in Marketing (FT 541)
- BSc in Management and Marketing (FT542)
- Other Degree Courses in the Faculty of Business.

Career Opportunities

There is a strong and growing demand for well educated management professionals in all business sectors.Graduates of this Diploma readily find career opportunities in the broad business sector in Ireland particularly in enterprises in the services and retail sectors. Security stream graduates will be equipped for a wide range of careers in the security functions of private and public sector organisations or in specialised security providers.

Further Information

School of Retail and Services Management
t: 01 402 4143

certificate

Business Studies DT315

Course Description
The Certificate in Business Studies is designed to provide the student with a comprehensive education in business. The course also seeks to develop a working competence which will be of use to employers in such areas as: Accounting, Marketing, Management Information Systems and Management.

Course Outline
First Year
Financial Accounting, Communications, Business Law, Economics, Management, Quantitative Analysis, Information Technology.
Optional Language (French/German)

Second Year
Financial Accounting, Quantitative Analysis, Information Technology, Communications and Behavioural Science, Operations Management.

Elective Subjects Two to be taken from Marketing, Taxation, Economics, Management Accounting.

Duration
Two years full-time.

Location
DIT Aungier Street.

Entry Requirements
Applicants will be required to hold the Leaving Certificate with a minimum of grade D3 in five subjects including English or Irish and Mathematics.

Award
Certificate in Business Studies of Dublin Institute of Technology.

Career Opportunities
The Certificate course in Business Studies provides a foundation for employment in a wide range of business activities. Students may choose subjects in the second year directly related to their career objectives. Major job opportunities arise in such areas as Accounting, Administration and Office Management.

Further Information
School of Accountancy and Finance
t: 01 402 3097

Management DT521

Course Description

This two-year certificate course provides a theoretical and practical introduction to the processes and principles of business management. It thus provides those completing the course with a foundation for a career path in business management.

Course Outline

First Year

Management, Financial Accounting, Business Law, Information Technology, Marketing, Communications, Quantitative Methods, Business Taxation *or* French *or* German.

Second Year

Organisational Behaviour, Marketing Management, Applied Management, Management Accounting, Economics of Business, Enterprise Development, Electronic Business, Business Taxation *or* French *or* German.

Duration

Two years full-time.

Location

DIT Mountjoy Square.

Entry Requirements

Applicants will be required to hold the Leaving Certificate with a minimum of Ordinary grade D3 in five subjects which must include Mathematics and English or Irish.

Award

Certificate in Management of Dublin Institute of Technology.

Further Studies Opportunities

Graduates of this Certificate who achieve a Merit or Distinction may apply to be considered for admission to:

- BSc Retail and Services Management (FT543)
- Diploma in Business Management (DT524)
- Other Diploma or Degree courses in the Faculty of Business.

Career Opportunities

The dramatic growth in the Irish economy in recent years has lead to a major expansion of employment opportunities in all sectors from manufacturing to services including the rapidly changing retail sector. Graduates of this course are well placed to avail of the exciting opportunities that Irish business now offers those with third-level qualifications in business.

Further Information

School of Retail and Services Management
t: 01 402 4143

Marketing DT503

Course Description
This course prepares students for the award of a Certificate in Marketing at the end of two years. The emphasis throughout the course will be on equipping the students with the practical skills and knowledge required of the junior executive in a business environment.

Course Outline
First Year
Marketing, Economics, Accounting, Statistics, Communications, Behavioural Science, Computer Applications, option of Continental Language *or* Web Design and Internet Technologies.

Second Year
Marketing, Economics, Accounting, Market Research/Statistics, Communications, Marketing Communications, option of a Continental Language *or* Marketing Information, E-Business Management.

Duration
Two years full-time.

Location
DIT Mountjoy Square.

Entry Requirements
First Year
Leaving Certificate with passes in five subjects including English or Irish and Mathematics *or* such qualifications as may prove acceptable to the Institute.

From 2002 and onwards applicants will also be required to have obtained at least higher level C1 in French or German.

Award
Certificate in Marketing of Dublin Institute of Technology.

Exemptions
Holders of these awards are entitled to generous exemptions from the examinations of the Marketing Institute and other professional bodies.

Career Opportunities
Graduates of these courses have a full range of career opportunities at junior executive level in business and especially in Marketing, Merchandising, Market Research and Sales/Sales Management.

Further Information
School of Marketing
t: 01 402 4135

Marketing and E Business DT502

Course Description
This course aims to provide students with the opportunity to pursue a course of studies which will challenge them to understand, acquire and develop the managerial skills and technical appreciation required to operate within an e-business environment.

Course Outline
Marketing Strategy, E-Business Policy, Team Dynamics, E-Business Design and Development, Marketing Research and Analysis, Designing Internet Systems, E-Business Law. This course is delivered in three distinct sections, the first of which is primarily a lecture based delivery for twelve weeks. The second is a work placement for eight to ten weeks and the third is the preparation of an E-Business plan for eight weeks.

In Company Placement
In company job placement is a feature of this course. As an integral part of the course, students undertake a minimum of eight weeks job placement organised, managed and monitored under the Links Replacement Programme. Students are allocated an individual mentor and the full support of the LINKS Programme Officer. Placement gives students an opportunity to apply marketing and e-business practices at first hand in a work area of their choice. It is an invaluable preparation for their careers.

Duration
One year full time.

Location
DIT Mountjoy Square.

Entry Requirements
DIT Certificate in Marketing or business related subjects. Students are required to reach Distinction or Merit Level to qualify for admission to the Diploma in Marketing and E Business.

Award
Diploma in Marketing and E Business of Dublin Institute of Technology.

Exemptions
Holders of these awards are entitled to generous exemptions from the examinations of the Marketing Institute and other professional bodies.

Career Opportunities
Graduates of this course have a full range of career opportunities in marketing and E-business related areas.

Further Information
School of Marketing
t: 01 402 4135

Retail Enterprise Management DT523

Course Description
This two-year certificate course provides a theoretical and practical introduction to the management of retail businesses with a significant focus on enterprise start-up and development.

Course Outline
First Year
Management, Marketing, Financial Accounting, Retail Design, Business Law, Quantitative Methods and Statistics, Information Technology, Business Taxation *or* French *or* German.

Second Year
Retail Marketing, Retail Operations Management, Enterprise Financing, Retail Enterprise Development, Retail Design, Economics of Business, Retail IT, Applied Retailing, Business Taxation *or* French *or* German.

Duration
Two years full-time.

Location
DIT Mountjoy Square.

Entry Requirements
Applicants will be required to hold the Leaving Certificate with a minimum of Ordinary grade D3 in five subjects which must include Mathematics and English or Irish.

Award
Certificate in Retail Enterprise Management of Dublin Institute of Technology.

Further Studies Opportunities
Graduates of this Certificate who achieve a Merit or Distinction may apply to be considered for admission to:
- BSc Retail and Services Management (FT543)
- Diploma in Business Management (DT524)
- Other Diploma or Degree Courses in the Faculty of Business.

Career Opportunities
Retailing now employs over 100,000 people in Ireland. Trainee managers are increasingly sought by bigger retailers while start-up businesses are very common in this sector. Graduates of this certificate are well placed to avail of the enormous opportunities in this rapidly growing and changing sector.

Further Information
School of Retail and Services Management
t: 01 402 4143

Retail Marketing DT522

Course Description

This two-year certificate course provides a theoretical and practical introduction to Marketing with a particular emphasis on its application in retail businesses. It thus provides an ideal basis for a career in marketing in retail or fast-moving consumer goods firms.

Course Outline

First Year

Marketing, Retail Management, Business/ Consumer Law, Business Communications, Quantitative Methods and Statistics, Retail Design, Economics or Information Technology, Business Taxation *or* French *or* German.

Second Year

Retail Marketing, Consumer Behaviour, Retail Design, Marketing Research and Data Analysis, Retail IT, Applied Retailing, Financial Accounting, Economics of Business, Business Taxation *or* French *or* German.

Duration

Two years full-time.

Location

DIT Mountjoy Square.

Entry Requirements

Applicants will be required to hold the Leaving Certificate with a minimum of Ordinary grade D3 in five subjects which must include Mathematics and English or Irish.

Award

Certificate in Retail Marketing of Dublin Institute of Technology.

Further Studies Opportunities

Graduates of this Certificate who achieve a Merit or Distinction may apply to be considered for admission to:

- BSc Retail and Services Management (FT543)
- Diploma in Business Management (DT524)
- Other Diploma or Degree courses in the Faculty of Business.

Career Opportunities

The dramatic changes in recent years in Irish retailing makes this course an ideal springboard to a career in this rapidly growing sector. Graduates of this course are ideally placed to avail of the exciting employment opportunities now available with Irish and multinational retailers in the Irish economy.

Further Information

School of Retail and Services Management
t: 01 402 4143

Security Management DT525

Course Description
This two year Certificate course provides a theoretical and practical introduction to business management with a special emphasis on the management of security within organisations. It thus provides those completing the course with a good basis for entry to the job market as trainee managers in the security function within businesses or within security service firms.

Course Outline
First Year
Management Theory, Security, Law, Business Communications, Financial Accounting, Security Technology, Information Technology, Economics *or* French *or* German.

Second Year
Marketing, Criminology/Penology, Security Law, Information Technology, Security Technology, Security, Behavioural Science, Enterprise Development.

Duration
Two years full-time.

Location
DIT Mountjoy Square.

Entry Requirements
Applicants will be required to hold the Leaving Certificate with a minimum of Ordinary grade D3 in five subjects which must include Mathematics and English or Irish. Holders of NCVA level 3 Certificate in Security will be considered for entry to the second year of this Certificate course.

Award
Certificate in Security Management of Dublin Institute of Technology.

Further Studies Opportunities
Graduates of this Certificate who achieve a Merit or Distinction may apply to be considered for admission to Diploma in Business Management (DT524)

Career Opportunities
It is expected that graduates from the course may join professional security businesses or security departments in industrial, commercial or service organisations. Ultimately many may progress to security management or security consultancy.

Further information
School of Retail and Services Management
t: 01 402 4143

Full-time courses in the Faculty of Engineering

Degree Programmes

98	Engineering	FT125
99	Building Services Engineering	FT121
100	Mechanical Engineering	FT122
101	Manufacturing Engineering	FT123
102	Structural Engineering	FT124
103	Computer Engineering	FT281
104	Electrical/Electronic Engineering	FT221
105	Transport Technology	FT128

Diploma/Certificate Programmes

106	Applied Electronics	DT287
108	Building Services Engineering Technician	DT127
109	Civil Engineering Technician	DT126
110	Electronic and Computer Systems	DT280
111	Electronic and Computer Systems	DT289
112	Electrical and Control Engineering	DT231
113	Electrical Services Engineering	DT244
114	Industrial Electronic Systems	DT284
115	Manutronics Automation	DT129
116	Mechanical Engineering Technician	DT128
117	Preliminary Engineering	DT120
118	Technology (Integrated Maintenance)	DT125
119	Transport Engineering/Motor Industry Management	DT150

Engineering FT125

Course Description

This is a four year full-time course which prepares students for a career in engineering up to and including the highest levels of responsibility. There is a common first year and the final degree is taken in one of the following four options:
FT121 Building Services Engineering
FT122 Mechanical Engineering
FT123 Manufacturing Engineering
FT124 Structural Engineering
A good mathematical and analytical ability is required for all specialities. Students are encouraged to obtain suitable summer employment in the industry to supplement their studies.

Course Outline

Common first year
Mathematics, Mechanics, Engineering Drawing, Engineering Technology, Physics, Chemistry, Professional Development, Workshop, Laboratory Work, Computing and German.

Duration

Four years full-time.

Location

DIT Bolton Street.

Entry Requirements

Leaving Certificate in six subjects with grade C3 or higher on higher level papers in Mathematics and a suitable science subject (i.e. Physics, Chemistry, Physics and Chemistry, Applied Mathematics, Construction Studies, Engineering) and a pass in four other subjects which must include English or Irish *or* an equivalent qualification.

Award

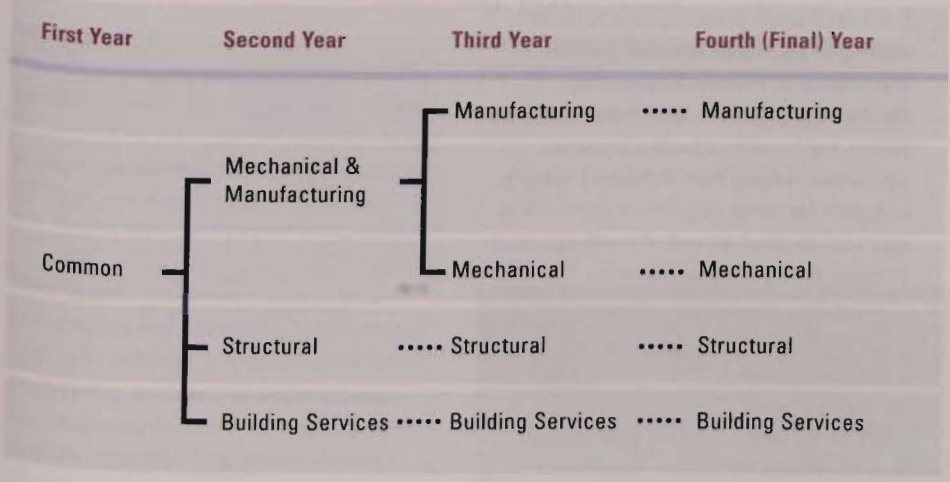
Bachelor of Engineering (BE) of Dublin Institute of Technology with grades of Pass, Second Class Honours, Upper, First Class Honours. Graduates are eligible for Membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate University postgraduate courses in Ireland and abroad.

Further Information

First year of course: Mr. Neil Gillespie
Department of Engineering Technology.
t: 01 402 3633

degree

Engineering Degree Options



Building Services Engineering FT121

Course Outline

Second Year

Mathematics, Built Environment, Electrical Engineering, Fluid Mechanics, Thermodynamics, Building Services Engineering, Construction Technology, Professional Development, Fabrication Technology, Laboratory Programme, German and Computing.

Third Year

Mathematics, Professional Development, Electrical Engineering, Control Engineering, Thermodynamics and Fluid Mechanics, Building Services Design, Built Environment, Construction Technology, Project Work, Laboratory Programme, German and Computing.

Fourth Year

Mathematics and Computing, Fluid Mechanics and Heat Transfer, Electrical Services Design, Mechanical Services Design, Energy Management and Conversion, Professional Development, Major Project and Laboratory Programme.

Career Opportunities

The qualification is appropriate to those wishing to make their careers in Building Services Engineering which is concerned with the design and installation of the mechanical and electrical systems necessary to ensure the efficient operation of modern buildings. They form part of the team of professionals involved with construction projects and work closely with Architects, Quantity Surveyors and Structural Engineers. Career opportunities also arise in the fields of Construction Project Management and Facilities Management particularly in the area of modern industrial facilities involving clean room manufacturing, such as in Pharmaceutical and Electronics production.

Further Information

Mr. Ben Costelloe
Department of Engineering Technology.
t: 01 402 3826

Mechanical Engineering FT122

Course Outline
There is a common second year for Mechanical and Manufacturing students. At the end of second year students have the option of either taking Mechanical Engineering (FT122/3) or Manufacturing Engineering (FT123/3) in their third year.

Second Year
Mathematics, Electrical Engineering, Mechanics, Thermodynamics, Fluid Mechanics, Engineering Drawing and Design, Materials Science, Manufacturing Technology, Professional Development, Workshop, Laboratory Work, Computing and German.

Third Year
Mathematics and Computing, Mechanics of Materials, Mechanics of Machines, Control Engineering, Professional Development, Thermodynamics, Fluid Mechanics, Electrical Engineering, Engineering Design, Laboratory Work and German.

Fourth Year
Mathematics and Computing, Control Engineering, Mechanics of Materials, Mechanics of Machines, Thermodynamics, Fluid Mechanics, Professional Development and Laboratory Work. A major project is also undertaken.

Career Opportunities
The qualification is appropriate to those wishing to specialise in either general Mechanical or Process Engineering. Mechanical Engineers are involved with the design and construction of all types of equipment ranging from individual items to complete factories or process plants. They may also be involved with the management of projects and firms and with the maintenance of plant and equipment.

Further Information
Mr. Neil Gillespie
Department of Engineering Technology.
t: 01 402 3633

degree

Manufacturing Engineering FT123

Course Outline

There is a common second year for Mechanical and Manufacturing students. At the end of second year students have the option of either taking Mechanical Engineering (FT122/3) or Manufacturing Engineering (FT123/3) in their third year.

Third Year

Mathematics and Computing, Mechanics of Materials, Mechanics of Machines, Control Engineering, Professional Development, Manufacturing Technology, Materials Science, Industrial Engineering, Product Design, Laboratory Work and German.

Fourth Year

Mathematics and Computing, Control Engineering, Professional Development, Advanced Manufacturing Engineering, Quality and Reliability Engineering, Materials Science, Manufacturing Operations and Laboratory Work. A major project is also undertaken.

Career Opportunities

The qualification is appropriate to those wishing to specialise in Manufacturing Engineering. Manufacturing Engineers are involved with the manufacture of all types of products ranging from individual items to large batches using robotics and highly automated machines. They may also be involved with the management of projects and industries and with the operation and maintenance of plant and equipment.

Further Information

Mr. Matthew Russell
Department of Engineering Technology.
t: 01 402 3634

degree

Structural Engineering FT124

Course Outline

Second Year

Mathematics and Statistics II, Mechanics of Materials II, Surveying II, Fluid Mechanics II, Concrete and Construction Technology II, Professional Development II, Structural Analysis II, Laboratory Work, Project (surveying), German, Computing.

Third Year

Mathematics and Computing III, Mechanics of Materials III, Professional Development III, Structural Analysis III, Design of Structures-Concrete, Design of Structures-Steel, Municipal Engineering III, Soil Mechanics III, Laboratory Work, Project (surveying), German, Computing.

Fourth Year

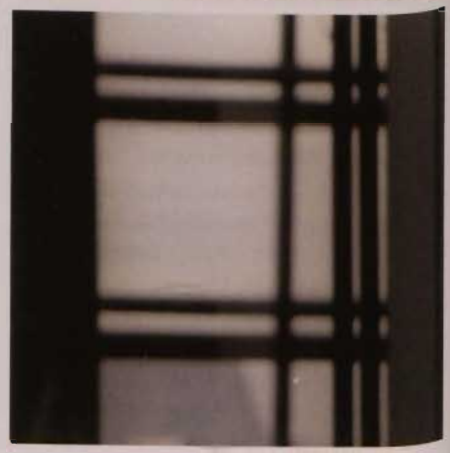
Mathematics and Computing IV, Mechanics of Materials IV, Professional Development IV, Structural Analysis IV, Design of Structures-Elements, Highway Engineering IV, Design of Structures-Scheme, Laboratory Work, Individual Project, Computing

Career Opportunities

The qualification is appropriate to those wishing to make their careers in Structural Engineering, which is a specialisation of Civil Engineering. Structural Engineers are concerned with the design and construction of buildings, bridges and special structures. They form part of the team of professionals involved with construction projects and in this way work closely with Architects, Quantity Surveyors and Building Services Engineers. Graduates of Structural Engineering have the prospect of employment with contractors, research organisations, consultants, as well as state and semi-state agencies and local authorities. Some pursue postgraduate studies in Ireland or abroad directly after graduating or they may go abroad to work initially and in this way gain wider or specialised experience.

Further Information

Mr. Joe Kindregan
Department of Engineering Technology.
t: 01 402 3638



Computer Engineering FT281

Course Description

To maintain and enhance the growth of high technology companies in Ireland it is necessary to address the skill shortages that exist in a number of specific areas of technology. The fastest growing area of technology is Computer Engineering. The Dublin Institute of Technology has designed a new Honours degree course to address the shortage of computer engineers. The course combines electronic engineering and computer science to bridge the technology gap between hardware and software engineering. It includes a significant amount of appropriate practical and laboratory work together with lectures and tutorials. A strong emphasis is placed throughout the course on developing the practical skills and the in-depth knowledge required by high technology companies.

Course Outline

First Year

Mathematics (I), Engineering Science, Mathematical Physics, Electronic Systems, Electric Circuits, Programming Language, End-user Programming, Communications Studies, Software Engineering (I), Language: French/German/Spanish (optional).

Second Year

Mathematics (II), Circuits and Field Theory, Electronics, Signals and Systems, Software Engineering (II), Object Oriented Programming, Operating Systems, Microprocessor Systems, Digital Communications (I), Systems Modelling, Language: French/German/Spanish (optional).

Third Year

Mathematics (III), Digital Signal Processing, Digital Communications (II), Communications Network Engineering (I), Advanced Programming Techniques, Systems Analysis, Computer Architectures, Business and Management Studies, Language: French/German/Spanish (optional).

Fourth Year

Mathematics (IV), Telecommunications Software Applications, Communications Network Engineering (II), Real Time Operating Systems, Embedded Systems, Option Subject, Distributed Systems, Network Encryption and Security, Engineering Project. The final year of the course includes a major practical project which runs throughout the academic year. The program includes an industrial placement of six months between the third year and final year of the course.

Duration

Four years full-time.

Location

DIT Kevin Street.

Entry Requirements

Passes in six subjects in the Irish Leaving Certificate, including English or Irish, with grade C3 or higher on higher level papers in Mathematics and one of Physics, Chemistry, Physics and Chemistry or Applied Mathematics *or* such qualification as the Institute may deem equivalent.

Award

Bachelor of Engineering (BE) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

The Institute is seeking accreditation for the course by the **Institution of Engineers of Ireland** as satisfying the academic requirements for **Corporate Membership** of the Institution.

Career Opportunities

Graduates of this course will be competent to take up employment in the areas of computer engineering, software engineering, network engineering, embedded computer systems and mobile communication engineering.

Further Information

Mr John Dalton
School of Electronic and Communications Engineering
t: 01 402 4802 *or*
Dr Gerald Farrell
t: 01 402 4577

Electrical/Electronic Engineering FT221

Course Description

This course is designed for the education of electrical/electronic engineers to an honours degree level. There is a moderate degree of specialisation in one of the following fields:

Power Systems Engineering
Control Engineering
Communication Engineering
Computer Engineering
Management and Marketing

The content of the course includes lectures, tutorials, and where appropriate, practical and laboratory work. The first three years of the course are common to all students. At the beginning of the final year students commence their specialist option. It is intended that there should be approximately equal numbers of students in each of the five options. In the first instance option choice will be by student preference; however, priority will be given on the basis of performance in the third year. The third year of the course includes a six-month period of co-operative education (industrial placement) commencing in March. This work experience will be assessed jointly by the Institute and the student's employer and is an important component of the overall programme.

Course Outline

First Year

Mathematics, Applied Mechanics, Physics, Electrical Systems, Electronics, Design, Computing, Communication Studies, French or German or Spanish.

Second Year

Mathematics, Electrical Systems, Electronics, Computing, Design, Electrical Machines and Power Systems, Communication Studies and The Engineer in Society, French or German or Spanish.

Third Year

Statistics, Electronics, Business Studies, Computer Systems, Field Theory, Instrumentation and Measurements, Control and Automation, Communication Systems, Power Systems, French or German or Spanish.

Fourth Year

The core subjects for the final year of the course are: Mathematics, Business Studies, Electronics, Circuits, Signals and Systems, Computer Systems and an Engineering Project. In addition students will study one of the following major subjects:

-Communications Engineering
-Control Engineering
-Power Systems Engineering
-Computer Engineering
-Management and Marketing

Students must also undertake one course from a list of possible elective subjects.

Duration

Four years full-time.

Location

DIT Kevin Street.

Entry Requirements

Passes in six subjects in the Irish Leaving Certificate, including English or Irish, with grade C3 or higher on higher level papers in Mathematics and one of Physics, Chemistry, Physics and Chemistry, Applied Mathematics or Engineering *or* such qualification as the Institute may deem equivalent.

Points for Weighted Subjects
Mathematics, from 1992: A1-150, A2-135, B1-128, B2-120, B3-113, C1-105, C2-98,C3-90. Pre-1992: HA-143, HB-120, HC-98.
Physics, Chemistry, Physics and Chemistry, Applied Mathematics, Engineering, from 1992: A1-120, A2-108, B1-102, B2-96, B3-90, C1-84, C2-78, C3-72. Pre-1992: HA-114, HB-96, HC-78.

Award

Bachelor of Engineering (BE) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours. The course has been accredited by the **Institution of Engineers of Ireland** as satisfying the academic requirements for **Corporate Membership** of the Institution.

Career Opportunities

Graduates of the course are employed in all areas of electrical/electronic technology, including computer engineering, electronics, telecommunications, control systems and power electronics.

Further Information

Dr. J.C. Fisher, Head, School of Control Systems and Electrical Engineering
t: 01 402 4551

Transport Technology FT128

Course Description

This is a four-year full-time course to Honours Degree level. It is designed for those who wish to pursue a career in the Transport Industries to the highest positions. All areas of the Transport Sector are covered (Road, Rail, Air and Sea) with emphasis on Engineering, Operational and Management aspects of the Industry. Progress to successive years of the course will be on the basis of the student's work during the session and success in sessional examinations. A requirement of the course is that students spend 2-3 months of each summer vacation in suitable employment in the Transport Industries gaining appropriate experience.

Course Outline

First Year

Technology of Transport, Electrotechnology, Mathematics, Transport Operations, Transport Economics, Information Technology, Fundamentals of Management, Legal Studies, Professional Development.

Second Year

Technology of Transport, Electrotechnology, Mathematics, Transport Operations, Transport Marketing, Information Technology, Financial Management, Legal Studies, Professional Development.

Third Year

Technology of Transport, Electrotechnology, Mathematics, Transport Operations, Transport Economics, Information Technology, Financial Management, Human Resource Management, Professional Development.

Fourth Year

Technology of Transport, Electrotechnology, Transport Operations and Technology Management, Logistics, Corporate Strategy, Total Quality Management, Dissertation.

Duration

Four years full-time.

Location

DIT Bolton Street.

Entry Requirements

The Irish Leaving Certificate in six subjects at least two of which must be at grade C3 or higher on higher level papers. Mathematics must be at a minimum of grade B3 at ordinary level, and one of the following science subjects at grade C3 ordinary level: Chemistry, Physics, Physics and Chemistry, Applied Mathematics or Engineering. Irish or English must also be included *or* an equivalent qualification.

Applicants who wish to be considered for entry to the second year of the course must have at least a high merit in a cognate DIT/NCEA Certificate. Applicants who wish to be considered for entry to the third year of the course must have at least a high merit in a DIT/NCEA Diploma or equivalent.

Mature Applicants

Applicants who are at least 23 years of age on the 1st January of the year of entry may apply to join the degree programme. Each applicant will be considered on an individual basis. Academic qualifications, work experience, motivation and overall potential for the programme of study will be evaluated by means of an interview.

Award

BSc (Transport Technology) of Dublin Institute of Technology, with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

Due to the growth in the transport sector there are now major opportunities for those wishing to make their careers in the transport industry. The Degree in Transport Technology will give graduates the opportunity to gain employment in private, state, and semi-state sectors.

Further Information

Department of Transport Engineering
t: 01 402 3605

Applied Electronics DT287

Course Description

The Diploma course in Applied Electronics is a three-year full-time programme of study which is designed to provide the Irish and European electronics and communications industry with high calibre engineering technician graduates to service the needs of industry in the areas of production, test, design and development. The course is structured in modular form and provides options in Communications Engineering and Electronic Engineering. The course has an applications bias which is underpinned by a strong fundamental core of mathematics, applied science and electronics to enable graduates to respond to the rapidly changing technologies in these applied areas. Computer Aided Design techniques are used extensively throughout the course to prepare the students for a work environment which increasingly depends on such techniques. In addition, students study business methods in the second and third year. A European Language is studied over the three years of the course. Graduates who obtain a Distinction in the Diploma examinations are eligible to apply for entry into the third year of the Degree in Electrical/ Electronic Engineering (FT221). All graduates are granted exemption from the Part 1 examinations of the Engineering Council.

Course Outline

First Year

The subjects studied in the first year (module 1 and module 2) are:
Mathematics, Engineering Science, Electric Circuits, Electronic Systems, Electronic Devices, Computer Applications and Programming, Computer Aided Drafting, Electronic Workshop, European Language.

Second Year

The subjects studied in the second year (module 3 and module 4) are:
Core subjects (both options):
Mathematics, Applied Science, Electric Circuits, Measurements, Electronics, Microprocessor Systems, Business Studies, European Language.
Communications Engineering Option:
Analogue and Digital Communications.
Electronic Engineering Option:
Control Systems.

Third Year

The subjects studied during the first sixteen weeks of the third year (module 5) are:
Core subjects (both options):
Mathematics, Electronics, Business Studies, Engineering Project Management, European Language.
Communications Engineering Option:
Communications Systems, Communications Engineering, Software Design, Integrated Circuit Design.
Electronic Engineering Option:
Production Technology, Communications Systems and Networks, Automatic Test Systems, Software Design, Integrated Circuit Fabrication.
In addition, there is a short-course provision (20 hours during the final four weeks of module 5) which enables the student to choose between a number of specialist topics or a further mathematics component. This is intended to enable those students who wish to pursue further study at degree level to enhance their expertise in Mathematics. Currently the specialist topics are:
Satellite Communications
Software Engineering
Computer-based Manufacturing
The final written examinations are taken at the end of module five. An Engineering Project is undertaken on a full-time basis during the final twelve weeks (module 6) of the course. It may be possible to pursue this project activity in industry or in another European third-level institution.

Duration
Three years full-time.

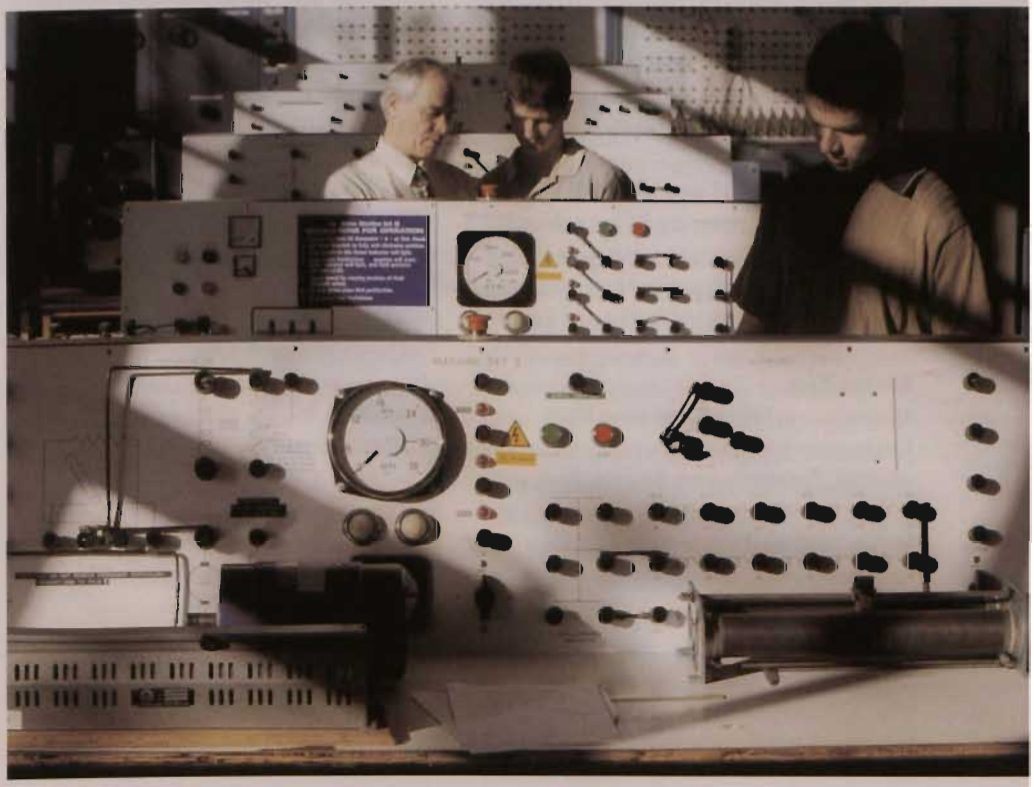
Location
DIT Kevin Street.

Entry Requirements
Irish Leaving Certificate in five subjects with grade B3 or higher in ordinary level Mathematics. Subjects must also include English or Irish at either level *or* the Senior Trade Certificate of the Department of Education and Science with one endorsement in Mathematics or a science subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education and Science will be an acceptable equivalent *or* such qualifications as the Institute may deem equivalent.

Award
Diploma in Applied Electronics of Dublin Institute of Technology with Distinction, Merit or Pass classification and with options in Communications Engineering or Electronic Engineering.

Career Opportunities
As a consequence of the breadth of coverage provided and the option structure, career opportunities for the graduates are correspondingly wide, covering the areas of production, test measurement, design and development. These opportunities arise in all branches of the communications, electronics and computer industries.

Further Information
Dr Mark Davis
t: 01 402 4797 *or*
Mr. Christopher Bruce
t: 01 402 4576
School of Electronic and Communications Engineering.



Building Services Engineering Technician DT127

Course Description
This course prepares students for a Technician Certificate award in Building Services Engineering at the end of two years and for a Technician Diploma award at the end of a further year of study. The students attend from September until the end of May each year and they are encouraged to spend the summer months gaining practical experience in Heating, Ventilating and Air Conditioning in Consulting Engineers' offices and related industry. The course requires an analytical ability to understand and solve technical problems.

Course Outline

First Year
Mathematics, Engineering Science, Mechanics, Drawing, Computing, Instrumentation and Materials, Construction Technology and Services, Complementary Studies and German.

Second Year
Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies, Environmental Plant Design, Lighting, Acoustics and Water Services, Environmental Engineering, Laboratory Work, Computing, German and a Project.

Third Year (Diploma Stage)
Mathematics, Management Studies, Electrotechnology and Electronics, Environmental Engineering, Computing, Project Work, Air Conditioning and Refrigeration, Heating and Combustion, Lighting, Acoustics and Water Services. Students are expected to reach a minimum of lower merit level in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award. Students who hold a Pass Certificate and have at least one year of appropriate post-Certificate experience may also be considered.

Examination and Other Requirements
(a) Students take a College examination at the end of each session which is moderated by the Dublin Institute of Technology.
(b) They are required to submit reports on their project and laboratory work.

Duration
Two/three years full-time.

Location
DIT Bolton Street.

Entry Requirements
Leaving Certificate with passes in five subjects including Mathematics and English or Irish *or* an equivalent qualification.

Award
Technician Certificate/Diploma in Building Services Engineering of Dublin Institute of Technology.

Recognition by Professional Bodies
Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level and can qualify for the Associateship grade of membership after they have completed a suitable period of practical training.

Career Opportunities
The qualification is appropriate to those wishing to enter engineering as a Technician specialising in Building Services Engineering. Building Services Engineers are involved with the design and installation of all types of building services such as heating, ventilation, air conditioning, water and electrical services. They are also involved with the drafting, planning and management of projects and the maintenance of plant and equipment. Graduates have good prospects of employment with mechanical services contractors and in design offices. The range of jobs available includes engineering design, maintenance engineering, consulting engineering and technical sales.

Further Information
Mr. Ben Costelloe
Department of Engineering Technology
t: 01 402 3826

Civil Engineering Technician DT126

Course Description

This course prepares students for a Technician Certificate award in Civil Engineering at the end of two years and for a Technician Diploma award at the end of a further year of study. The students attend the course from September until the end of May each year and they are encouraged to spend the summer months gaining practical experience in approved Civil or Structural Engineering design offices or construction sites. The course requires an analytical ability to understand and solve technical problems.

Course Outline

First Year

Mathematics, Engineering Science, Mechanics, Drawing, Building Technology, Surveying, Complementary Studies, German, Computing and Years Work.

Second Year (Certificate Stage)

Structural Design and Detailing, Mathematics, Concrete Geology and Soil Mechanics, Surveying, Construction Services and Supplies, Planning and Administration, Complementary Studies, Laboratory Work, German, Computing and Years Work.

Third Year (Diploma Stage)
Structural Option

Theory of Structures, Municipal Engineering, Structural Design (Steel/Concrete), Mathematics, Computing, Management Studies, individual Project and Years Work.

Third Year (Diploma Stage)
Environmental Option

Mathematics, Management Studies, Road Engineering, Sanitary Services, Waste Management, Environmental Impact Assessment, Environmental Studies (environmental economics, ecology, air and water pollution), Environmental Law, Planning and Building Regulations and an Individual Project.

Students are expected to reach a minimum of lower Merit level in the Certificate examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award. Students who hold a Pass Certificate and at least one year of appropriate post-Certificate experience may also be considered, following an interview in September.

Examination and Other Requirements

(a) Students take a College examination at the end of each session which is moderated by the Dublin Institute of Technology.
(b) They are required to submit reports on their projects and laboratory work.

Duration

Two/three years full-time.

Location

DIT Bolton Street.

Entry Requirements

Leaving Certificate with passes in five subjects including Mathematics and English or Irish *or* an equivalent qualification.

Award

Technician Certificate/Diploma in Civil Engineering of Dublin Institute of Technology.

Recognition by Professional Bodies

Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level and can qualify for the Associateship grade of membership after they have completed a suitable period of practical training.

Career Opportunities

The qualification is appropriate to those wishing to enter engineering as a Technician specialising in Civil Engineering. Civil Engineering Technicians may be involved in the design and construction of buildings, bridges, roads, water supply, waste disposal, sanitary services. Graduates have prospects of employment in contracting firms, engineering design offices, state and semi-state bodies, and research organisations engaged in Civil Engineering work. Some students may continue their studies to degree level when they have appropriate academic qualifications at the Certificate or Diploma stage.

Further Information

Mr. Joe Kindregan
Department of Engineering Technology.
t: 01 402 3638

Electronic and Computer Systems DT280

Course Description

The Diploma Course in Electronic Systems is a one-year programme of study designed to provide graduates of certificate-level courses, from within DIT, from other Institutes of Technology, or persons who have equivalent qualifications from part-time programmes, with the opportunity to pursue their studies to diploma level. The course has a strong systems perspective which is intended to develop the students knowledge and technical abilities with particular reference to the areas of micro-computer and communications systems. The course is modular in structure and incorporates an assessment process designed to provide students with credit for the successful completion of modules of study. Credit may be accumulated to fulfil the requirements for the award of the Diploma.

Course Outline

The course is centred on three major subject areas-Microcomputer Systems, Electronic Systems and Communications Systems. Each of these core subjects in turn incorporates two modules of study resulting in a total of six core modules as follows: Microcompressor and Embedded Systems, Software, Software Development, Instrumentation and Automatic Test Systems, Digital Systems Implementation, Data Communications, Electric Circuits and Transmission Channels. In addition to the main core modules students study a specialist option module chosen from: Computer Systems and Networks or Satellite Systems. A technical project is undertaken by all students and the course also incorporates modules of Business Studies and Digital Signal Processing.

Duration

One year.

Location

DIT Kevin Street.

Entry Requirements

The requirements for admission to the course are:
(a) a technician certificate qualification in electronics from a recognised institute with, as a minimum, a Merit grade *or* (b) a technician certificate qualification in electronics from a recognised institute with a Pass grade provided that the applicant has worked as an electronics technician for a minimum period of one year in an industrial environment relevant to the course of study. Such applicants are required to attend for interview and satisfy the Institute that the experiential learning is at an appropriate level.

Award

Diploma in Electronic and Computer Systems of Dublin Institute of Technology.

Career Opportunities

The course is designed to produce graduates of high calibre to meet the needs of the Irish and European electronics and communications sectors and as a consequence the career opportunities are very broad. At the present time the industry is experiencing a shortage of technician personnel particularly in the area of information technology.

Further Information

Mr. Seán Ó Fearghaill
t: 01 402 4960 *or*
Mr. Christopher Bruce
t: 01 402 4576

Electronic and Computer Systems DT289

Course Description
The course is designed to provide a broadly based education in the fundamental principles and practice of electronic engineering at a level appropriate to the electronic technician seeking to obtain employment in the production, test and service sectors of the electronics, communications or computer industry. The course orientation is essentially practical with emphasis on the development of software and hardware diagnostic and fault-finding skills. However, an appropriate mathematical and engineering science foundation is incorporated to ensure that students wishing to extend their studies at some future date will be enabled to do so.

Course Outline
First Year
Mathematics, Engineering Science, Electric Circuits and Devices, Electronic Components and Practice, Electronic Workshop, Electronic Systems, Communications Skills, Computer Systems and CAD Applications.

Second Year
Mathematics, Electronic Systems, Technical Project, Personal Computers and Networking Technologies, Data Communications, Microcomputer Systems, Software Systems and Business Environment.

Duration
Two years full-time.

Location
DIT Kevin Street.

Entry Requirements
Irish Leaving Certificate in five subjects which must include Mathematics with a minimum of grade C3 at Ordinary level, and English or Irish *or* the Senior Trade Certificate of the Department of Education and Science with one endorsement in Mathematics or a science subject.

Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education and Science will be an acceptable equivalent *or* such qualification as the Institute may deem equivalent.

Award
Certificate in Electronic and Computer Systems of Dublin Institute of Technology with grades of Pass, Merit or Distinction.

Career Opportunities
Graduates of the course are qualified to take up employment as technicians across the spectrum of the electronics, telecommunications and computer industries in the production, service and applications sectors.

Further Information
Mr. Michael Tully, t: 01 402 4790 *or*
Mr. Christopher Bruce, t: 01 402 4576
School of Electronic and Communications Engineering

Electrical and Control Engineering DT231

Course Description

This is an advanced-level technician course in modern Electrical Engineering. In the early stages, a broad base of electrical engineering science is established and this is then followed by a detailed study of Electrical Power Systems, Power Electronics and Control Systems and Instrumentation. Final year students also study a subject chosen from a list of possible options; the list will at least include Automation and Industrial Services. In the third year the final examinations are held in March. The students then commence work on an engineering project. As the School of Control Systems and Electrical Engineering is linked under the SOCRATES programme with colleges in many of the EU member states, it may be possible for students on this course to undertake their final-year projects abroad.

Graduates of this course with a Distinction grade in the Diploma are eligible to apply for entry to the third year of the Honours Degree course in Electrical/ Electronic Engineering (FT221). The Diploma is recognised by the Engineering Council (London) and graduates are given exemption from the Council's Part I Examination. Graduates of this course are eligible for Affiliate Membership of the Institution of Engineers of Ireland and, after a period of industrial or other appropriate experience, for Associate Membership of that Institution.

Course Outline

First Year

Mathematics, Applied Mechanics, Physics and Chemistry, Engineering Drawing, Mechanical Workshops, Electricity, Electronics, Electrical Power, Computer Applications, French or German or Spanish.

Second Year

Mathematics, Electricity, Electrical Power, Electronics, Control, Instrumentation and Microprocessors, Computer Applications, Business Studies, French or German or Spanish.

Third Year

Mathematics, Electrical Power, Power Electronics, Control Systems and Instrumentation and an option subject, Engineering Project, Business Studies, French or German or Spanish.

Duration

Three years full-time.

Location

DIT Kevin Street.

Entry Requirements

Irish Leaving Certificate in five subjects with grade B3 or higher in ordinary level Mathematics. Subjects must also include English or Irish at either level *or* the Senior Trade Certificate of the Department of Education and Science with one endorsement in Mathematics or a science subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education and Science will be an acceptable equivalent *or* such qualification as the Institute may deem equivalent.

Award

Diploma in Electrical and Control Engineering of Dublin Institute of Technology with grades of Pass, Merit or Distinction.

Career Opportunities

As this is a broadly based course graduates take employment in a wide range of activities such as Industrial Electronics, Automation and Control, Computing and Electrical Services.

Further Information

Dr. J.C. Fisher
Head, School of Control Systems and Electrical Engineering
t: 01 402 4550

Electrical Services Engineering DT244

Course Description

This is a two-year full-time course designed to prepare students for careers as Electrical Services Engineering Technicians. The course has been designed in close consultation with the Electrical Services Industry. Students will become computer literate and will also develop expertise in the technical areas necessary to use software packages for electrical design. The course will provide a wide knowledge base, which will enable the student to specialise in different areas of interest. Industrial Electronics leading on to computerised control of automated processes is a core subject. The weekly class contact of 26 hours is broken down to 50% lectures and 50% laboratory. Ten hours of self-study is recommended per week. A continental language is provided at a technical level, although a pass in this subject is not essential for the award. A pass will be required however, if you wish to transfer to higher courses within the Institute.

Course Outline

First Year

AutoCAD, Electrical Science, Electrical Services Theory, Industrial Electronics, Computer Applications, Environmental and Safety Engineering, Personal Development, Intercultural Studies/Language, Mathematics and Physics.

Second Year

AutoCAD + Project, Electrical Services Design, Electrical Services Plant, Industrial Electronics, Building Services, Computer Applications, Project Management, Intercultural Studies/Language and Mathematics.

Examinations

Assessment will be by a combination of written examination held in May/June and continuous assessment of assignments/course work. The subject mark will normally be 70% for the written exam and 30% for continuous assessment/course work except for laboratory based subjects where the allocations will be reversed.

Duration

Two years full-time.

Location

DIT Kevin Street.

Entry Requirements

Leaving Certificate with passes in five subjects at ordinary level, including Mathematics and English/Irish or an equivalent qualification.

Award

Technician Certificate in Electrical Services Engineering of Dublin Institute of Technology. The award is a terminal qualification in its own right. However, on successful completion of the course, it will be possible to transfer to Diploma courses in the Institute and proceed to further study if desired.

Employment Opportunities

Electrical Services Technicians enjoy a very varied, interesting and well-paid work environment. There are so many aspects in which graduates can develop an interest and subsequently specialise. These can include working in an electrical design office for an electrical contractor, as engineering systems support in the manufacturing sector, technical sales support, project management, or in the provision of industrial services. The work invariably involves both office based and site/location activity.

Further Information

Mr. Kevin O'Connell, Assistant Head of Department, Department of Electrical Installation
t: 01 402 4630
e: kevin.oconnell@dit.ie

Industrial Electronic Systems DT284

Course Description

This course is designed to address, at technician level, the requirements of industry in the production, test and maintenance environments in the electronics sector. The course is structured in a 2+1 format which prepares students for a Certificate award after two years of study and for a Diploma award after a further year of study.

At the Certificate level, the primary focus is on the development of the basic abilities and skills appropriate to the electronic technician together with a competence in the operation of a broad range of test and measurement equipment. In addition, the core topics of automatic test systems, software systems and microcomputer systems are introduced with emphasis on applications in the industrial environment.

At the Diploma level, process control, computer systems and software systems are developed in detail and students are introduced to industrial test and inspection systems. In addition, the topics of quality control, quality standards and reliability are developed. In the Diploma year students undertake a structured project in the area of automatic test and inspection systems.

Course Outline

First Year

Mathematics, Applied Physics, Electric Circuits, Electronic Systems, Electronic Workshop, Computer Programming and Applications and Communications Skills.

Second Year

Mathematics, Statistics, Electric Circuits, Electronic Systems, Data Acquisition Systems, Automatic Test Systems, Electronic Systems Project, Process Control and Software Systems.

Third Year

Mathematics, Statistics, Quality Control and Reliability, Electronic Systems, Process Control, Automatic Test and Inspection Systems, Communications Systems, Industrial Studies, Project Management.

Duration

Two/three years full-time.

Location

DIT Kevin Street.

Entry Requirements

Irish Leaving Certificate in five subjects with grade B3 or higher in ordinary level Mathematics. Subjects must also include English or Irish at either level *or* the Senior Trades Certificate of the Department of Education and Science with one endorsement in Mathematics or a science subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education and Science will be an acceptable equivalent *or* such other qualifications as the Institute may deem equivalent.

Award

Certificate/Diploma in Industrial Electronic Systems of Dublin Institute of Technology.

Career Opportunities

The qualification is appropriate to those wishing to pursue careers in the electronic engineering or computer engineering sectors particularly in the areas of production, test and maintenance.

Further Information

Dr. Paul O'Leary,
t: 01 402 4963 *or*
Mr. Christopher Bruce,
t: 01 402 4576
School of Electronic and Communications Engineering

Manutronics Automation DT129

Course Description

The course Manutronics Automation is designed to address the shortfall in multidisciplinary technicians in the manufacturing industry and to produce technicians skilled in working with computer information systems and modern automation equipment in an electronics manufacturing environment. The course is concerned with the operation of production systems, which involves the integration of Mechanical, Manufacturing, Electrical and Electronic systems with Software engineering and Computer technology at all levels in automation and manufacturing.

The course is also concerned with achieving technological integration of topics and involves aspects of organisation and management. The core focus is to produce an individual for working with hybrid electromechanical systems operating under programmed control.

Course Outline

First Year

Mathematics, Mechanical Systems, Electronic Systems, Electrical Systems, Manufacturing Systems, Manufacturing Technology, Communications Studies, CAD and Information Technology, European Language.

Second Year

Mathematics, Mechatronics, Automation Systems, Manufacturing Systems, Communications Studies, CAD & Information Technology, Project, European Language.

Third Year (Diploma Stage)

Students are expected to reach a minimum of lower merit level in the Certificate at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award. Students who hold a Pass Certificate and have at least one year of appropriate post-Certificate experience may also be considered.

Mathematics, Manufacturing and Quality Systems, Mechatronics, Systems Integration, Management and Finance, CAD & Information Technology, European Language, Project.
The final year of the course includes a major practical project, which runs throughout the academic year.

Industrial Placement

The programme includes an industrial placement of six months between the second year and third year of the course.

Examinations and Other Requirements

(a) Students take a college examination at the end of each session which is moderated by the Dublin Institute of Technology.
(b) They are required to submit reports on their project and laboratory work.

Duration

Two/three years full-time.

Location

DIT Bolton Street.

Entry Requirements

Leaving Certificate with passes in five subjects including Mathematics and English or Irish *or* an equivalent qualification.

Award

Technician Certificate/Diploma in Manutronics Automation of Dublin Institute of Technology.

Recognition by Professional Bodies

Those who have successfully completed the Certificate stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level and can qualify for the Associateship grade of membership after they have completed a suitable period of practical training.

Career Opportunities

This qualification is appropriate to those wishing to take up employment in the electronics or computer manufacturing sector as high calibre technicians. The graduates will be competent in the areas of electronic manufacture, automation, as well as systems integration.

Further Information

Mr. Matthew Russell, Assistant Head,
Department of Engineering Technology
t: 01 402 3635
f: 01 402 3999

Mechanical Engineering Technician DT128

Course Description

This course prepares students for a Technician Certificate award in Mechanical Engineering at the end of two years and for a Technician Diploma award at the end of a further year of study. The students attend from September until the end of May each year and they are encouraged to spend the summer months gaining practical experience in industry, design offices etc. The course requires an analytical ability to understand and solve technical problems.

Course Outline

First Year

Mathematics, Engineering Science, Mechanics, Drawing, Workshop Technology, Instrumentation and Materials, Computing, Complementary Studies, German and Years Work.

Second Year

Mathematics and Computing, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies, Mechanics, Design and Materials, Production Technology, Laboratory Work, German and Years Work.

Third Year (Diploma Stage)

Students are expected to reach a minimum of lower merit level in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award. Students who hold a Pass Certificate and have at least one year of appropriate post-Certificate experience may also be considered. The Diploma stage is specialised. At present two options are offered-Manufacturing Technology or Process Plant.

Third Year (Common Subjects)

Mathematics, Electrotechnology and Electronics, Management Studies and Computing.

Manufacturing Technology Option

Manufacturing Technology I and II, Manufacturing Design, Mechanics, Project Work and Years Work.

Process Plant Option

Materials Science, Process Plant Technology I and II, Process Plant Design and Management, Project Work and Years Work.

Examination and Other Requirements

(a) Students take a College examination at the end of each session which is moderated by the Dublin Institute of Technology.
(b) They are required to submit reports on their project and laboratory work.

Duration

Two/three years full-time.

Location

DIT Bolton Street.

Entry Requirements

Leaving Certificate with passes in five subjects including Mathematics and English or Irish *or* an equivalent qualification.

Award

Technician Certificate/Diploma in Mechanical Engineering of Dublin Institute of Technology.

Recognition by Professional Bodies

Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level and can qualify for the Associateship grade of membership after they have completed a suitable period of practical training.

Career Opportunities

The qualification is appropriate to those wishing to enter engineering as a Technician specialising in Mechanical and Manufacturing Engineering. Mechanical Engineers and Technicians are concerned with the design, manufacture and installation of all types of equipment ranging from individual items to complete factories or process plants. They may also be involved in operation design, detail planning, management of projects and with plant maintenance. Graduates have prospects of employment in manufacturing or processing firms, research organisations, as well as state and semi-state agencies.

Further Information

Mr. Matthew Russell,
Department of Engineering Technology
t: 01 402 3634

Preliminary Engineering DT120

Course Description
This course prepares students for entry into the first year of the Engineering Degree course (FT125). It is suitable for students who have not satisfied the specified entry requirements in terms of Higher Level Mathematics or an appropriate science subject. Applicants should note that this course is not covered by either the Department of Education and Science Free Fees Initiative or the European Social Fund-Aided (E.S.F.) Third Level Scheme for Trainees. **The course fee for 2000 was approximately £960 (Euro 1218) and will be higher in 2001.**

Course Outline
Mathematics, Mechanics, Introduction to Engineering, Physics, Chemistry, Engineering Drawing, Communication Studies, Years Work.

Examination and Other Requirements
Students are required to:
(a) take College examinations at the end of each session.
(b) present laboratory notebooks and project work reports to the satisfaction of the Department.

Duration
One year full-time.

Location
DIT Bolton Street.

Entry Requirements
Leaving Certificate with passes in five subjects including Mathematics and English or Irish *or* an equivalent qualification

Award
College Examination. It should be noted that the standard for entry to the Engineering Degree course (FT125) is an average of 50% of the overall marks (i.e. total of Written Papers and Years Work) which must include at least 40% in each written paper. This result must be achieved at the first attempt.

Career Opportunities
Students who reach the required standard in the College examination may qualify for admission to the first year of course FT125 and are notified of this in July.

Further Information
Mr. Neil Gillespie
Department of Engineering Technology.
t: 01 402 3633

Technology (Integrated Maintenance) DT125

Course Description

This course prepares students for a Certificate in Technology (Integrated Maintenance) at the end of two years and for a Diploma in Technology (Integrated Maintenance) at the end of a further year of study. The students attend from September until the end of May each year. Work placement in an appropriate industrial environment during the summer months is encouraged, as this will provide a practical experience to augment the academic learning.

Course Outline

First Year

Applied Mathematics and Science
Maintenance and Principles of Transmission Equipment
Communications
Maintenance Workshop Practice
Computer Software Applications
Material Technology
Electrotechnology
Control Technology
Maintenance Management

Second Year

Applied Mathematics and Science
Maintenance and Principals of Transmission Equipment
Computer Applications CAD
Plant Operation and Maintenance
Thermal and Fluid Plant
Electrotechnology and Instrumentation
Maintenance Diagnostic Techniques
Project

Third Year (Diploma Stage)

Applied Mathematics and Science
Mechatronics
Business Management
Environmental and Plant Services
Computer Software Applications
Metrology and Quality
Electrotechnology and Control Technology (Computer and PLC Control Applications)
Reliability, Availability, Maintainability and Safety
Project
Industrial Placement

Examination and other requirements

Students take a college examination at the end of each academic year which is moderated by the Dublin Institute of Technology. The submission of appropriate reports, projects and laboratory work are essential requirements of the course.

Duration

Two/three years full-time.

Location

DIT Bolton Street.

Entry Requirements

Leaving Certificate, with passes in five subjects including Mathematics and English *or* Irish *or* National Craft Certificate *or* an equivalent qualification.

Award

Certificate/Diploma in Technology (Integrated Maintenance) of Dublin Institute of Technology.

Recognition by Professional Bodies

Those who have successfully completed the Certificate/Diploma may be eligible to become Associate members of the Institution of Engineers of Ireland after they have completed a suitable period of practical industrial training and have gained appropriate experience.

Career Opportunities

Following graduation, there are opportunities for graduates to take up employment in many areas of industrial maintenance. These areas include: Machine and Plant Maintenance; the Testing, Monitoring, Inspection, Diagnostics, Trouble-shooting and Installation of Machine Components; Planned and Preventive Maintenance Programmes.

Typical areas of employment are Manufacturing Industries, Process Industries, Pharmaceutical and Chemical Industries, Hospitals, State and semi-State agencies.

Further Information

Mr. John Lawlor
Department of Applied Technology
t: 01 402 3696/3627

Transport Engineering/Motor Industry Management DT150

Course Description

This course is designed to give students a good overall knowledge of the Motor Industry. All aspects of the industry are covered with emphasis on the technical side for the first two years and the managerial/ administrative side in the final year. The course leads to the award of a Transport Engineering Certificate at the end of two years of study and to the award of the Diploma in Motor Industry Management at the end of a further year of study.

Course Outline

First Year

Mathematics, Automobile Engineering, Electricity/Electronics, Engineering Science (Heat Engines), Engineering Science (Applied Mechanics), Workshop Technology, Engineering Drawing, Complementary and Management Studies and Computer Studies.

Second Year

Mathematics, Automobile Engineering, Automobile Electricity/ Electronics, Engineering Science(Heat Engines), Engineering Science (Applied Mechanics), Workshop Technology, Autocad, Complementary and Management Studies, Computer Studies.

Third Year

Mathematics, Automobile Engineering, Automobile Electricity, Transport Studies, Motor Industry Management, Motor Industry Law, Motor Industry Administration and Organisation, Communications and Industrial Sociology, Management Project, Computer Studies, Accountancy.

Examination and other requirements

Progress to successive years of the course will be on the basis of the students' work during the session, and success in the College sessional examinations. Only students who successfully complete the Certificate stage and who display an aptitude for management will be accepted for the Diploma stage. A requirement of the course is that students spend 2-3 months of each summer vacation in suitable employment in the Motor Industry gaining appropriate experience. Where students are unable to arrange this employment, the Institute of the Motor Industry, the Society of the Irish Motor Industry, the College and the Student Society of Motor Industry Management may assist in their placement.

Duration

Two/three years full-time.

Location

DIT Bolton Street.

Entry Requirements

Leaving Certificate with passes in five subjects including Mathematics and English or Irish *or* an equivalent qualification.

Award

Certificate in Transport Engineering of Dublin Institute of Technology.
Diploma in Motor Industry Management of Dublin Institute of Technology.

Graduates holding the Diploma are eligible for full exemptions from the Certificate of Management examination requirement of the Institute of the Motor Industry and for subject exemptions from the examinations of the Institute of Road Transport Engineers.

Career Opportunities

There are many and varied career opportunities in the automobile and transport industries for those completing these courses including the following: Vehicle Body Repair Supervisor, Garage Service Department Supervisor, Reception Engineer, Vehicle Salesperson, Training Advisor, Vehicle Finance Company Representative. Generally graduates progress to more senior management positions in the retail motor industry or transport industry.

Further Information

Department of Transport Engineering.
t: 01 402 3701

Full-time courses in the Faculty of Science

Degree Programmes

122	Applied Sciences	FT222
126	Applied Sciences/Computing	FT225
129	Biochemistry and Molecular Biology	FT226
130	Biomedical Sciences	DT215
131	Chemical Sciences/GRSC	DT299
132	Human Nutrition and Dietetics	FT223
133	Optometry	FT224
134	Software Development and Internet Systems	FT228

Diploma/Certificate Programmes

136	Applied Science	DT273
139	Computer Science	DT266
140	Graduate Diploma of the Institute of Food Science and Technology	DT213
141	Medical Laboratory Sciences	DT214

Applied Sciences FT222

Course Description

A four-year full-time programme is offered for the Degree in Applied Sciences. After a common first year, students drop one subject in second year leading to one of five possible options in the third and final years, which are:
Chemistry and Physics
Chemistry and Mathematics
Food Science and Food Technology
Mathematics and Physics
Physics and Physics Technology

In the final year the student carries out a research project in one of the subject specialisations. This course is presented in parallel with FT225 which allows students to specialise in Computer Science and Software Engineering

Course Outline

First Year

Physics-Mechanics, Physical Properties of Matter and Thermal Physics, Optics and Sound, Electricity and Magnetism, Atomic and Nuclear Physics.
Chemistry-Analytical Chemistry, Industrial Chemistry, Inorganic Chemistry, Physical and Organic Chemistry.
Mathematics-Calculus, Algebra, Computing and Practical Mathematics.
Management Studies-Business Framework, Financial Control.
Language-French, German or Spanish.

Second Year

Physics-Electromagnetism, Circuits and Devices, Optics, Mechanics, Thermodynamics and Properties of Matter, Nuclear and Quantum Physics.
Chemistry-Analytical Chemistry, Industrial Chemistry, Inorganic Chemistry, Physical and Organic Chemistry.
Mathematics-Linear algebra, Calculus of a Single and of Several Variables, Statistics, Numerical Methods, Computing and Practical Mathematics.
Management Studies-Business Cost Control Techniques, Business Law.
Language-French, German or Spanish.
Students taking Physics or Chemistry but not Mathematics take a shorter course in Ancillary Mathematics.

Third Year

Students who have taken Physics to this point may choose the Physics and Physics Technology option. Students who have taken Chemistry to this point may choose the Food Science and Food Technology option.
Physics-Optics and Electromagnetic Theory, Analogue and Digital Electronics, Condensed Matter, Quantum and Nuclear Physics, Thermodynamics, Ionising Radiation.
Chemistry-Analytical Chemistry, Industrial Chemistry, Inorganic Chemistry, Physical and Organic Chemistry.
Food Science and Technology-Biochemistry, Biology and Microbiology.
Mathematics-Mathematical Methods, and Complex Analysis, Analysis/Metric Spaces, Applied Statistics and one of the following options: Algebra and Discrete Mathematics, Numerical Analysis, Classical Mechanics, Computing and Practical Mathematics.
Physics Technology-Physics of Materials, Vacuum Technology, Non-Ionising Radiation and Environmental Physics, Environmental Remote Sensing, Metrology, Optical Metrology, Process Control and Microprocessors.
Management Studies-Marketing and Enterprise Management, Top Quality Management.
Language-French, German or Spanish.

Fourth Year

Physics-Electromagnetism and Nuclear Physics, Solid State Physics, Radiation and Nuclear Physics, Medical Imaging Systems, Acoustics, Statistical Physics, Optical Communications, Materials Spectroscopy, Microwave and Radio frequency Engineering. Students take the first three and two of the remaining subjects. Not all combinations of the latter will necessarily be offered in any given year.
Chemistry-Analytical Chemistry, Industrial Chemistry, Inorganic Chemistry, Physical and Organic Chemistry. Special topics are also offered in Analytical, Inorganic, Organic and Industrial Chemistry.
Food Science and Food Technology-Food Chemistry, Food Processing and Distribution, Food Microbiology, Nutrition.
Mathematics-Mathematical Methods, Functional Analysis and one of the following options: Numerical Analysis of Partial Differential Equations, Operations Research and Applied Statistics, Quantum Mechanics, Continuum Mechanics, Non-linear Differential Equations and Control Theory.

Physics Technology-Physics of Materials, Applications of Optics, Digital Systems, Sensors, Applied Biophysics. Students will also study one of the subjects from the options listed under Physics.
Language-French, German or Spanish, is offered as one of the options on all programmes except Food Science and Food Technology.
Project-All students undertake a project which may be based in the Institute or in industry.

Duration
Four years full-time for all programmes with the exception of **Food Science and Food Technology** which is four and a half years. Opportunities exist under Erasmus/Socrates and other EU programmes to spend part of year 3 at a European Partner Institute.

Location
DIT Kevin Street.

Entry Requirements
Irish Leaving Certificate in six subjects including Mathematics and English or Irish, with grade C3 or higher in two subjects on higher level papers, one of which must be Mathematics, Applied Mathematics, Physics, Chemistry, Physics and Chemistry, Biology, Agricultural Science, Engineering or Technical Drawing and at least grade B3 in ordinary level Mathematics *or* such qualification as the Institute may deem equivalent. Applications are welcomed from mature students.

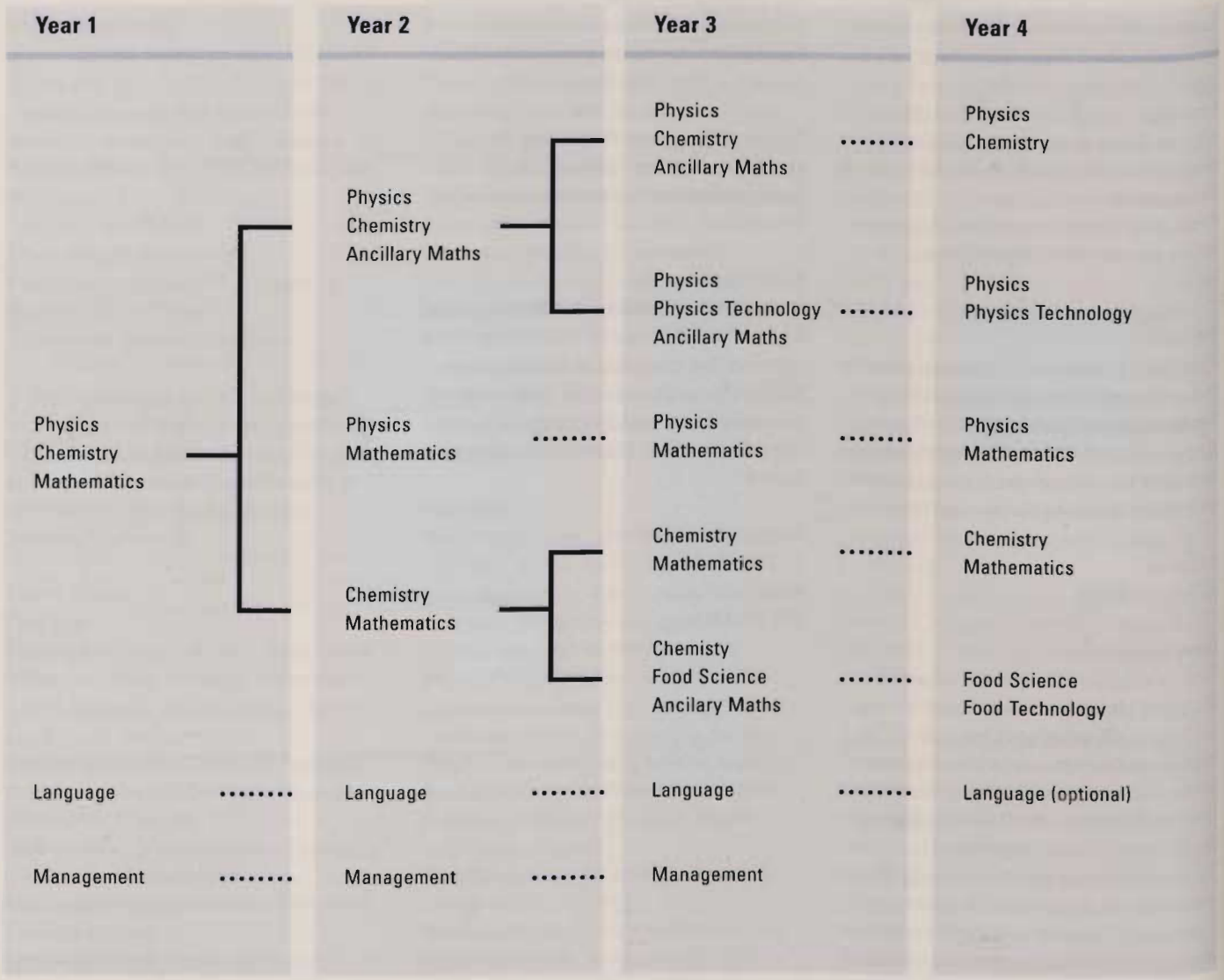
Award
BSc (Applied Sciences) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

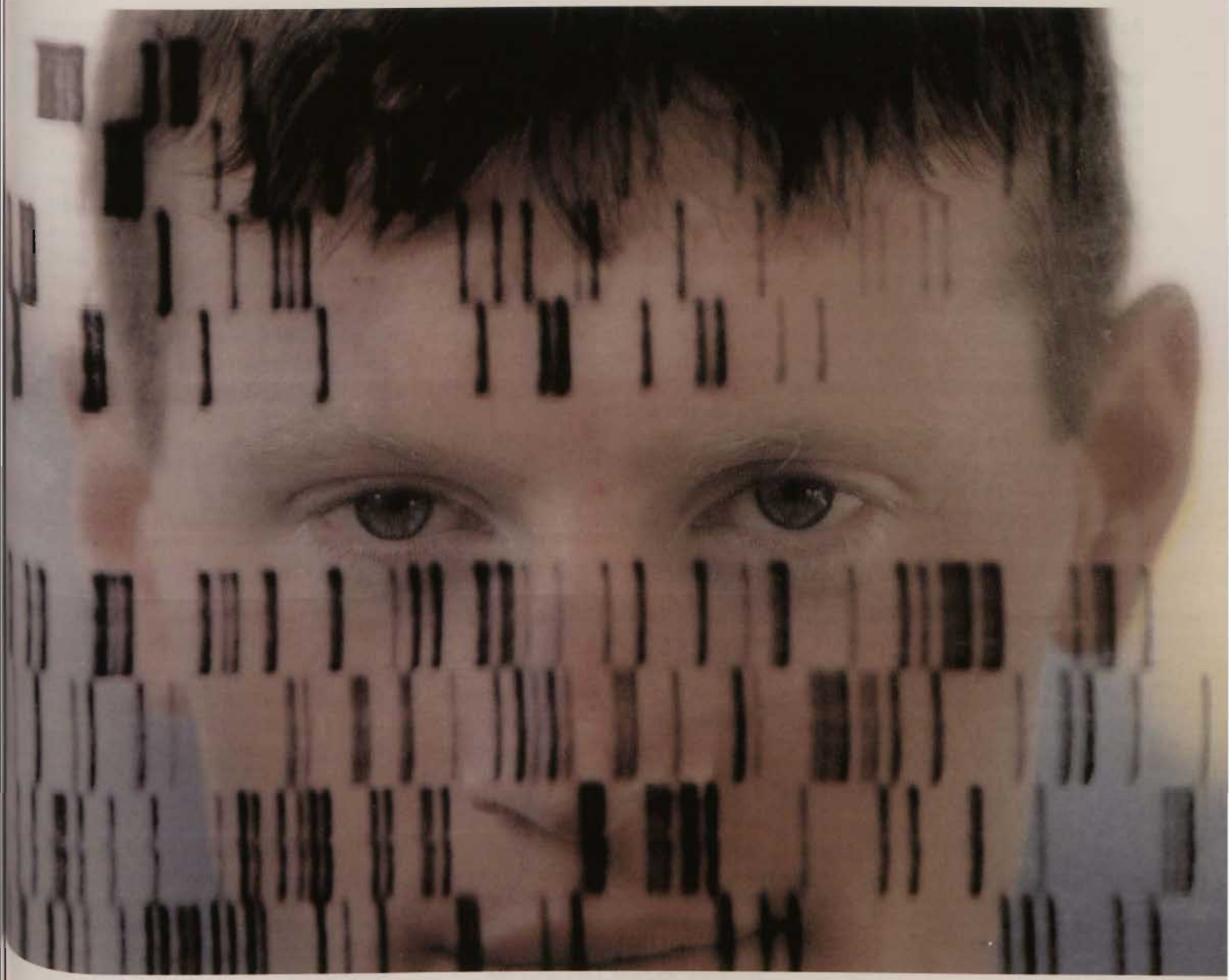
Options of the course that include Physics satisfy the academic requirements for Corporate Membership of the Institute of Physics.

Career Opportunities
The main thrust of the course is towards industrial and commercial applications of the sciences. The graduates of the course are qualified for employment in a wide range of industries. Many graduates undertake research towards a Masters or Doctorate degree.

Further Information
Dr. Siobhan Daly
School of Physics
t: 01 402 4927

Applied Sciences Degree Options FT222





Applied Sciences/Computing FT225

Course Description

Four full-time programmes are offered for the Degree in Applied Sciences/Computing. This course has been designed to cover those areas of Chemistry, Mathematics, Physics, Computer Science and Software Engineering which are of the widest application in Industry. This course provides for great flexibility in the fields in which graduates may usefully be employed. There is considerable emphasis in the course on practical and applied work. The Degree will be awarded in respect of one of the four possible options studied in the final year of the course as follows:

Chemistry and Computer Science
Mathematics and Computer Science
Computer Science and Physics
Computer Science and Software Engineering

In the final year a research/development project is undertaken by each student in one of the subjects in the option they have chosen. In the past a number of these projects have led to postgraduate research while others have led to products with commercial potential.

This course is similar in structure to FT222 but with Computer Science replacing Physics or Chemistry in the first year and a possible final year option of Computer Science and Software Engineering.

Course Outline

First Year

Students will study five of the six subjects listed below:

Physics -Mechanics, Physical Properties of Matter and Thermal Physics, Optics and Sound, Electricity and Magnetism, Atomic and Nuclear Physics.

Chemistry- Analytical Chemistry, Industrial Chemistry, Inorganic Chemistry, Physical and Organic Chemistry.

Mathematics-Calculus, Algebra, Computing and Practical Mathematics.

Computer Science-Programming, Introduction to Computer Science.

Management Studies-Business Framework, Financial Control.

Language-French, German or Spanish.

Second Year

In the second year students take one of the following programmes and continue their study of Management Studies and a language:

Chemistry, Computer Science and Ancillary Mathematics
Mathematics and Computer Science
Computer Science, Physics and Ancillary Mathematics

Physics-Electromagnetism, Circuits and Devices, Optics, Mechanics, Thermodynamics and Properties of Matter, Nuclear and Quantum Physics.

Chemistry-Analytical Chemistry, Industrial Chemistry, Inorganic Chemistry, Physical and Organic Chemistry.

Mathematics-Linear Algebra, Calculus of a Single and of Several Variables, Statistics, Numerical Methods, Computing and Practical Mathematics.

Computer Science-Programming, Systems Analysis and Information Systems, Operating Systems, Computer Architecture.

Management Studies-Business Cost Control Techniques, Business Law.

Language-French, German or Spanish.

Third Year

In the third year students take one of the following programmes and continue their study of Management Studies and a language:

Chemistry, Computer Science and Ancillary Mathematics
Mathematics and Computer Science
Computer Science, Physics and Ancillary Mathematics

Physics-Optics and Electromagnetic Theory, Analogue and Digital Electronics, Condensed Matter, Quantum and Nuclear Physics, Thermodynamics, Ionising Radiation.

Chemistry-Analytical Chemistry, Industrial Chemistry, Inorganic Chemistry, Physical and Organic Chemistry.

Mathematics-Mathematical Methods and Complex Analysis. Analysis/Metric Spaces, Applied Statistics and one of the following options: Algebra and Discrete Mathematics, Numerical Analysis and Classical Mechanics.

Computer Science-Data Communications, Systems Analysis and Information Systems, Programming, Mathematics for Computer Science.

Management Studies-Marketing and Enterprise Management, Top Quality Management.

Language-French, German or Spanish.

Fourth Year

Students who have taken Computer Science to this point may choose the Computer Science and Software Engineering option. Students take one of the following programmes:

Chemistry and Computer Science
Mathematics and Computer Science
Computer Science and Physics
Computer Science and Software Engineering

Physics-Electromagnetism and Nuclear Physics, Solid State Physics, Radiation and Nuclear Physics, Medical Imaging Systems, Acoustics, Statistical Physics, Optical Communications, Materials Spectroscopy, Microwave and Radio Frequency Engineering. Students take the first three and two of the remaining subjects. Not all combinations of the latter will necessarily be offered in any given year.

Chemistry-Analytical Chemistry, Industrial Chemistry, Inorganic Chemistry, Physical and Organic Chemistry. Special topics are also offered in Analytical, Inorganic, Organic and Industrial Chemistry.

Mathematics-Mathematical Methods, Functional Analysis and one of the following options: Numerical Analysis of Partial Differential Equations, Operations Research and Applied Statistics, Quantum Mechanics, Continuum Mechanics, Non-linear Differential Equations and Control Theory.

Computer Science-Systems Programming and Compiler Theory, Computer Networks and Distributed Systems and two of the following options: Information Technology Management, Operations Research and Simulation, Graphics and Image Processing, Neural Networks/Artificial Intelligence, Medical Informatics and Assistive Technology, Formal Methods/Mathematics of Computing, System Technologies.

Software Engineering-Computer-aided Software Engineering/Human Computer Interface, Intelligent Systems Engineering/Formal Specifications. Students also take two of the options as specified for Computer Science.

Language-French, German or Spanish is offered as one of the options on all programmes except Food Science and Food Technology.

Duration

Four years full-time for all programmes. Opportunities exist under Erasmus/ Socrates and other EU programmes to take a unit of the course in a European partner Institution.

Location

DIT Kevin Street.

Entry Requirements

Irish Leaving Certificate in six subjects including Mathematics and English or Irish with grade C3 or higher in two subjects on higher level papers, one of which must be Mathematics, Applied Mathematics, Physics, Chemistry, Physics and Chemistry, Biology, Agricultural Science, Engineering or Technical Drawing and at least grade B3 in ordinary level Mathematics *or* such other qualification as the Institute may deem equivalent. The number admitted to this course in year one will be limited to fifty.

Award

BSc (Applied Sciences) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

The Institute of Physics recognises the option in the course which includes **Physics** as satisfying the academic requirements for Corporate Membership of the Institute, with Category B Accreditation.

Career Opportunities

Graduates from this course have gone on to very successful careers particularly in the software industry. They are at the forefront of many exciting new developments, like the Internet, E-Commerce, Smartcards and so on. They are employed by many of the leading corporations. As well as the software industry, graduates have pursued careers in the traditional sciences bringing a unique awareness of IT technology to their work. This course also offer opportunities to develop niche skills such as assistive technology and medical informatics. Many graduates have also successfully pursued careers in postgraduate research.

Further Information

Mr John Gilligan
School of Mathematics
Statistics and Computer Science.
t: 01 402 4820
f: 01 402 4994

Biochemistry and Molecular Biology FT226

Course Description

The course is offered over one and a half academic years. The aim is to provide an education and training for graduates with good grades in pass degrees and technician diplomas to proceed to an honours degree qualification. The course is recognised by the Institute of Biology for the professional award of Graduateship of the Institute of Biology. Graduates are universally recognised by industry, academic institutions and Departments of Education. Second level teachers having this professional recognition qualify for honours degree allowance.

Course Outline

First Year

The major subjects offered are Biochemistry, Molecular Biology, Immunology and Analytical Sciences. Project preparation/statistical methods support the major subjects. The latter half of the course takes a more applied approach and builds on the knowledge of the student. Greater time is spent on student directed learning and seminars. The project, which is an independent laboratory based investigation, is undertaken between July and December of year two.

Duration

One and a half academic years full-time.

Year 1

Term I 14 weeks: mid September-December
Term II 12 weeks: January-March
Term III 4 weeks: April-May

Year 2

Project: within the period July to December. Projects may be taken on campus, in industry, or in European Universities under the Socrates Programme.

Location

DIT Kevin Street.

Entry Requirements

(i) Technician Diploma in Applied Science (Applied Biology) of Dublin Institute of Technology with Merit I or Distinction, *or*

(ii) An appropriate Diploma in Biological Sciences, Biomedical Sciences, Food Science or Food Technology with Merit (60-69%) or Distinction (70%>) grade, *or*

(iii) A BSc pass degree from a recognised degree awarding institution, *or*

(iv) The GIBiol part 1 examination.

Candidates must have previously studied Biochemistry, Cell Biology and Molecular Biology.

Application procedure

Application must be made on the Advanced Entry form which is available from the Admissions Office, Dublin Institute of Technology, 30 Upper Pembroke Street, Dublin 2.

Award

BSc of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.
The course is recognised by the Institute of Biology for Professional Membership.

Examinations

The degree examinations consist of five papers, assessment components and the project. An oral examination is mandatory.

Career Opportunities

Honours graduates from this course may proceed to postgraduate studies leading to the award of MSc or PhD at research institutes and universities worldwide. They may apply for graduate positions in medical, veterinary, forensic laboratories, in industry and in research and development.

Further Information

Ms. Brid Ann Ryan, Head,
School of Biological Sciences
t: 01 402 4562

Biomedical Sciences DT215

Course Description

The course is intended for students who have successfully completed the revised, approved Certificate courses in Medical Laboratory Sciences at the Dublin Institute of Technology and the Institutes of Technology in Cork and Galway. The course is an integrated, advanced programme of study in Biological, Biomedical and Analytical Sciences and Management Studies. In the final year of the course, students select a specialist option as their major subject. They are also required to undertake a second specialist discipline as a minor subject and complete a research project. The specialist programmes are:

Cellular Pathology
Clinical Chemistry
Clinical Immunology
Haematology/Blood Transfusion Science
Medical Microbiology

Course Outline

Fourth Year

Cell Biology/Molecular Genetics, Applied Immunology, Medical Sciences (Pathology, Epidemiology, Pharmacology), Biochemistry, Analytical Sciences/Measurement and Instrumentation, Management Studies.

Fifth Year

Medical Sciences (Biological Basis of Disease). Specialist Option: The student selects one of the following as a major and a second one as a minor subject: Cellular Pathology, Clinical Chemistry, Clinical Immunology, Haematology/ Blood Transfusion Science, Medical Microbiology. All students undertake a project.

Duration

Two years full-time.

Location

DIT Kevin Street.

Entry Requirements

(a) Certificate in Medical Laboratory Sciences. (This mode of entry applies only to those holding Certificates awarded from 1990 onwards)
(b) Cognate Degrees, Diplomas and Certificates and other qualifications that the Institute may deem equivalent.

Award

BSc (Biomedical Sciences) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours, or First Class Honours.The BSc in Biomedical Sciences (DIT) is recognised by the Institute of Medical Laboratory Sciences (London) as satisfying the requirements for the award of **Associateship of the Institute of Medical Laboratory Sciences** (AIMLS).

Career Opportunities

Holders of the BSc (Biomedical Sciences) are eligible to apply for positions in the Medical Laboratory services in this country. Good career prospects exist in Diagnostic Laboratory services in the European Union, the USA, Australia, the Middle East and Africa. Other career opportunities occur in Medical Research, Veterinary Medicine, Diagnostics Marketing, Biotechnology and Pharmaceuticals. Many undertake postgraduate research for MSc and PhD qualifications.

Further Information

Dr. J. Kelly/Dr. P. McHale
School of Biological Sciences
t: 01 402 4562
f: 01 402 4995

Chemical Sciences/GRSC DT299

Course Description

The course extends over three full-time semesters. The aim is to provide a pathway for graduates with pass degree/ LRSC standard qualifications to proceed to an honours degree qualification and so be eligible for the professional award of GRSC. The course consists of modules in:

Inorganic Chemistry
Organic Chemistry
Physical Chemistry
Analytical Chemistry
Chemical Technology

These modules are covered over the first and second semester. For the third semester each student undertakes a research/development project. Projects may be based on campus, in industry or in European colleges under the Socrates programme.

Entry Requirements

(i) Technician Diploma in Applied Science (Chemistry) of Dublin Institute of Technology with Credit or Distinction *or*
(ii) a credit level achievement (60% average) in a general degree programme from a recognised university having chemistry as a final year subject *or*
(iii) a pass degree from a recognised university having chemistry as a final year subject followed by at least one year of relevant experience in a chemical or related industry *or*
(iv) the Licentiateship of the Royal Society of Chemistry (LRSC) achieved through examination *or*
(v) the GRSC (Part I) and GRSC Practical with examination *or*
(vi) the HNC/D and Certificate in Applied Chemistry (CAC) with appropriate bridging studies where required.

Duration

Three semesters full-time. Five semesters part-time. Part-time registration occurs in alternate years and will take place in September 2001.

Award

BSc (Chemical Sciences) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours. Accreditation by the R.S.C. for GRSC award is subject to approval.

Career Opportunities

Graduates are eligible to apply for MSc and PhD programmes at universities and research institutes throughout Europe and America. Alternatively many graduates decide to enter directly into the wide-ranging pharmaceutical/chemical industry. Many graduates hold senior positions in industry both in Ireland and abroad.

Further Information

Dr. Barry Foley
School of Chemistry
t: 01 402 4645

Human Nutrition and Dietetics FT223

Course Description

This course is run jointly by the Dublin Institute of Technology (DIT Kevin Street) and the University of Dublin (Trinity College). The course is designed to provide an integrated training in the science of nutrition and dietetics and its application to human health and well-being both at the individual and community level. This includes six months hospital internship and also a period of practical Catering Administration and Management. Students are responsible for their own upkeep during these training periods since they are unpaid.

Course Outline

First Year

Mathematics, Physics, Chemistry, Biology, Food Studies, Communication Studies, French/German.

Second Year

Biochemistry, Physiology, Nutrition, Dietetics, Medicine, Catering Administration, Microbiology, Statistics and Computation, Communication Studies, French/German.

Third Year

Biochemistry, Nutrition, Dietetics, Medicine, Clinical Studies, Food Science, Microbiology, Computer Science, Communication Studies and Management Studies, French/ German.

Fourth Year

Nutrition, Dietetics, Communication Studies, Management Studies, Project, Hospital Internship.

Duration

Four and a half years full-time.

Location

DIT Kevin Street.

Entry Requirements

Irish Leaving Certificate in six subjects with grade C3 or higher in three subjects on higher level papers, one of which must be Chemistry. Subjects must include Mathematics and English or Irish at either level *or* such qualification as the Institute may deem equivalent.

Award

BSc in Human Nutrition and Dietetics, with Honours Classification of University of Dublin and a Diploma in Human Nutrition and Dietetics with Honours Classification of Dublin Institute of Technology.

Career Opportunities

Nutrition as a science is a relatively young discipline. The scientific study of nutrition was not possible until the development of the chemical, physical and biological sciences throughout the 19th century. These foundations have been consolidated and new fields investigated. The application of this scientific knowledge for the improvement of health and the prevention of disease requires an understanding of many factors. A career in nutrition or dietetics may appeal to those who are interested in nutrition, have an aptitude for science and for work in medical, social or scientific fields. Graduates from this course are equipped to find employment in many different spheres of nutritional work. In this country, at present, the majority of posts held by graduates are in the Hospital Service in clinical dietetics. Other areas where posts are becoming available in which graduates have obtained employment include: Public Health or Community Nutrition, Preventative Medicine and Health Education, and in research in the Food and Pharmaceutical Industries. Many undertake postgraduate research for MSc and PhD.

Further Information

School of Biological Sciences.
t: 01 402 4562

Optometry FT224

Course Description

This course provides the education and training statutorily required for Optometrists (Ophthalmic Opticians) by the Opticians' Act, (1956), and the Rules made thereunder. The course is approved by Bord na Radharcmhastóirí (the Opticians' Board) which is the Registration Authority set up under the Act. Graduates must also satisfy the Association of Optometrists, Ireland, as to their clinical competence, before being eligible to register with the Board.

The period of supervised practice, taken after the successful completion of the third year of the course, is of particular value in developing the practical clinical skills of the students. Students are responsible for their own upkeep during supervised practice since they are unpaid during this period. On return to college for the completion of the final year, students are assigned a research project which helps to relate theoretical aspects of the course to the clinical skills required in optometric practice.

Course Outline

First Year

Physics, Biology, Mathematics and Computing, Chemistry, Visual Science (1), Language (1) (French or German), Optics.

Second Year

Visual Science (2), Ocular and Systemic Anatomy and Physiology, Physical and Illumination Optics, Optical Dispensing, Physiological Biochemistry, Statistics, Business Studies (1), Language (2).

Third Year

Optometry and Optical Dispensing, Contact Lenses and Optometric Instruments, Visual Science (3), Binocular Vision, Abnormal Systemic and Ocular Conditions, Business Studies (2), Law and Professional Studies.

Fourth Year

Six months supervised practice followed by a return to college for: Advanced Optometry and Optometry Clinic, Advanced Contact Lenses and Contact Lens Clinic, Research Project and Dissertation, Environmental Optics and Advanced Dispensing, Ocular Pharmacology, Business Studies (3), Statistics and Experimental Design.

Duration

Four years full-time.

Location

DIT Kevin Street.

Entry Requirements

Irish Leaving Certificate in six subjects including grade C3 or higher on Higher level papers in two subjects one of which must be Physics, Chemistry, Physics and Chemistry or Biology. Results must also include grade B3 or higher on Ordinary Level papers in Mathematics and English or Irish *or* such qualification as the Institute may deem equivalent.

Award

BSc (Optometry) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Graduates who have passed the examinations of the Association of Optometrists, Ireland, may, if elected to Membership, be awarded the **Fellowship of the Association of Optometrists, Ireland (FAOI).**

Career Opportunities

Most optometrists are in individual private practice, in partnership with colleagues, or employed in larger practices. Their primary task is the examination and assessment of the visual function and advising and prescribing for visual defects. Optometrists may also choose to specialise in fields such as contact lenses, environmental vision or the care of the partially sighted. Some opportunities exist for academic and industrial research, and for work in hospital eye departments as optometrists (usually abroad).

Further Information

Dr. Peter Davison,
School of Physics,
t: 01 402 4933

Software Development and Internet Systems FT228

Course Description

The main aim of the course is to produce graduates with the necessary skills to function as software application developers in a broad range of commercial and industrial environments with a focus on the development of Internet and Enterprise Systems. A further aim of the course is, in view of the rapidly changing nature of the computer industry, to equip graduates with a wide and educationally sound background in order that they may possess the flexibility likely to be required in the future. The course incorporates a wide range of computing skills together with mathematics, business and language skills. The course emphasises practical work. Important components of information systems and technical programming are included. Students gain substantial hands-on experience from a comprehensive six-months work placement programme. In addition, all students undertake a final year project which requires them to use those skills they have developed to research, design and implement a substantial software system. The project may arise from the student's work-placement or from another source.

Course Outline

First Year

Programming, Computer Technology, Software Technology, Mathematics. Management Studies, Language: choice of French, German or Spanish.

Second Year

Object Oriented Programming, Algorithms and Data Structures, Software Engineering, Data Communications, Web Development, Databases, Operating Systems, Mathematics for Computing, Financial Accounting, Marketing, Language: continuing choice of French, German or Spanish.

Third Year (Term 1)

Windows Programming, Internet Development, Network Programming, Object Oriented Software Engineering, Enterprise Systems, Database Technologies, Business Law.

Third Year (Term 2)

Work Placement: The student will complete a formal, monitored, six-month placement in the IT industry. The placement will be identified by DIT or by the student (subject to DIT approval).

Fourth Year

Core Subjects: Advanced Databases, Component Systems Development, Internet Application Development. Project: each student will undertake a substantial research/development project in one or more relevant areas of the course.

Option Subjects: Students take two options from the following: E-Commerce, Enterprise Engineering, Knowledge Based Systems, Human Computer Interaction and Assistive Technology, Management Information Systems.

Duration

Four years full time, of which six months, commencing the second term of third year, will be a work placement in the IT industry. Opportunities exist under Socrates and other EU programmes to undertake the work placement in an EU country other that Ireland.

Location

DIT Kevin Street

Entry Requirements

Leaving Certificate in six subjects at least two of which must be at grade C3 or higher on higher level papers. Results must include grade C3 or higher in ordinary level Mathematics and English or Irish at either level *or* such qualifications as the Institute may deem equivalent including PLC qualifications.

Mature students may be offered places provided they meet certain criteria with respect to suitability, analytical skills and professional experience. Mature applicants may be requested to attend for interview.

Award

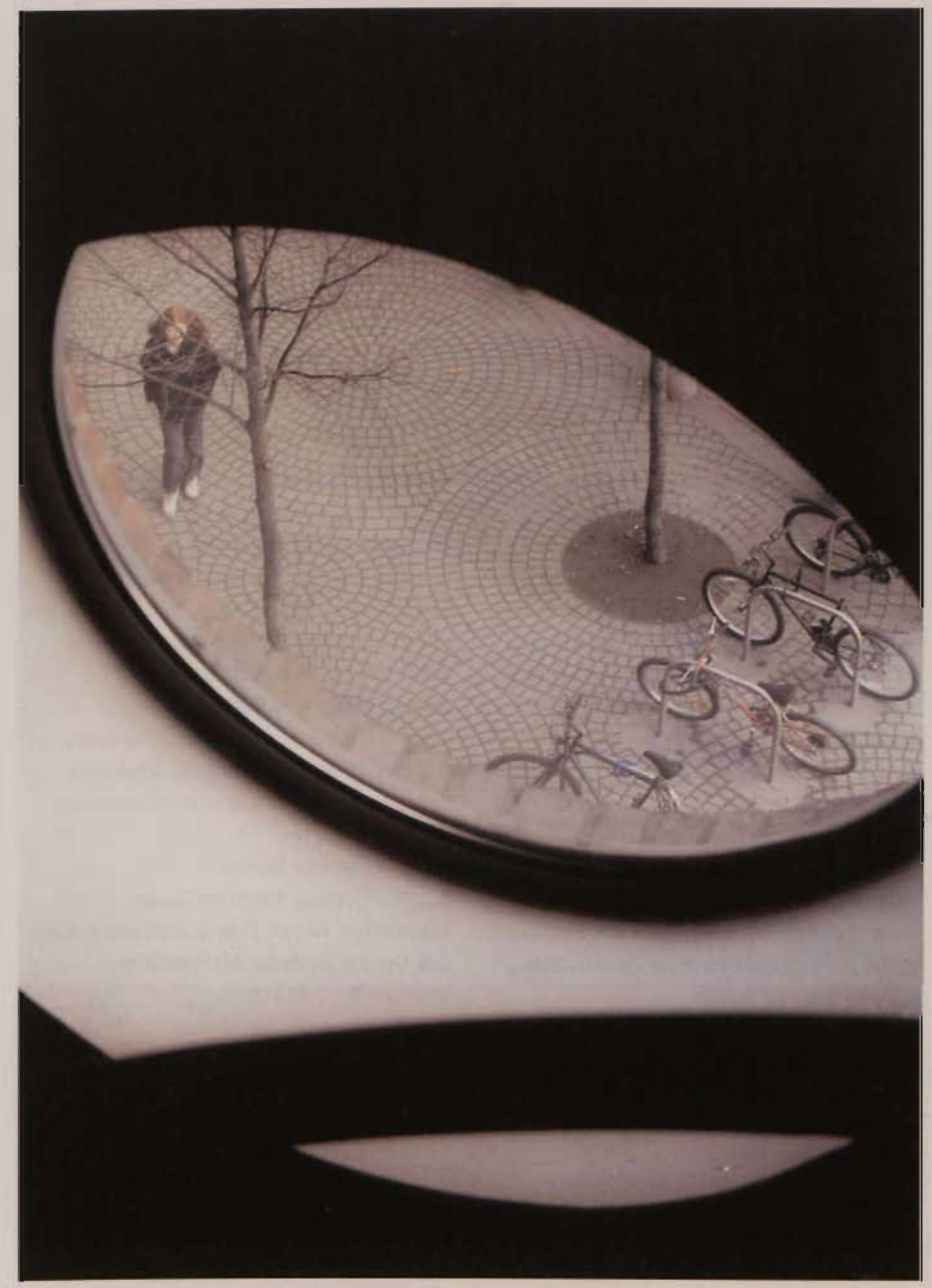
BSc (Software Development and Internet Systems) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

The main thrust of the course is towards industrial and commercial applications. The graduates of the course will be uniquely qualified for employment in a wide range of computer development areas. These may be in the mainstream computer industry but will also occur in exciting emerging new applications such as E-Commerce or Assistive Health Care for the disabled. Graduates of the course will be well qualified to pursue postgraduate studies if they so wish.

Further Information

Mr. Oliver O'Connor,
School of Mathematics and Computer Science.
t: 01 402 4822
f: 01 402 4994
e: oliver.oconnor@dit.ie



Applied Science DT273

Course Description

This course provides technical training in the Sciences. There is a common first year after which students choose one of three options:

Applied Biology
Applied Chemistry
Applied Physics

Course Outline

First Year

Physics, Chemistry, Biology, Mathematics and Information Technology, Business Studies, French or German or Irish or Spanish. The Institute tries to ensure that all students who pass the first year examinations can enter the specialist option of their choice. However entry to second year options may be limited and priority is given according to students relative performance in their summer examinations at the end of first year.

Second Year

Business Studies, French, German, Irish or Spanish are common to all options. Subjects taken in second year are detailed below in respect of each option available.

Applied Biology Option

Biochemistry, Microbiology, Biotechnology, Cell Biology, Mathematics (including Computer Studies), Quality Control, good Laboratory Practice, Photography.

Applied Chemistry Option

Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Industrial Chemistry, Analytical Chemistry, Mathematics, Computational Chemistry, Statistics, Computer Laboratory.

Applied Physics Option

Physics, Electronics, Circuit Theory, Mathematics, Instrumentation and Control Systems, Materials Science, Medical Physics, Photography, Acoustics and Engineering Practice. Entry to specialist options in year two may be limited. Priority will be given to students according to their position of merit in the class at the Summer Examinations at the end of year one.

Third Year

Business Studies or a language (optional).

Applied Biology Option

Biochemistry, Microbiology, Biotechnology and Cell Biology. Students will also take Food Science (including Instrumentation and Control Systems) or Biomedical Science (Haematology and Histology).

Applied Chemistry Option

Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Industrial Chemistry, Analytical Chemistry, Business/Language, Project.

Applied Physics Option

Applied Physics, Materials Science, Electronics, Circuit Theory, Instrumentation and Control Systems, Mathematics, Engineering Practice.

Following final examinations each student carries out a full-time project either in the Institute or in another laboratory in Ireland or abroad.

Duration

Three years full-time.

Location

DIT Kevin Street.

Entry Requirements

a) Irish Leaving Certificate in five subjects including English or Irish and Mathematics (or Applied Mathematics)
or (b) the Senior Trade Certificate of the Department of Education and Science with one endorsement in Mathematics or a science subject. Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education and Science will be an acceptable equivalent or (c) attainment which the Institute regards as equivalent. Applications are welcomed from mature students.
Note: For entry 2002 and onwards applicants must obtain at least grade C3 in ordinary level Mathematics.

Award

Technician Diploma in Applied Science (Option Specified) of Dublin Institute of Technology with grades of Pass, Merit or Distinction.

Career Opportunities

Career opportunities are available to graduates in a wide range of industries including electronics, chemicals and pharmaceuticals, computers, hospitals, food industry, research and Teaching Laboratories. Graduates provide the skills and competence needed by industry to maintain technological competitiveness. Graduates who have appropriate grades in final examinations may apply for advanced entry into the **Physics and Physics Technology** option of **FT222**, year 3, **Biochemistry and Molecular Biology** or **DT299 Chemical Sciences**.

Further Information

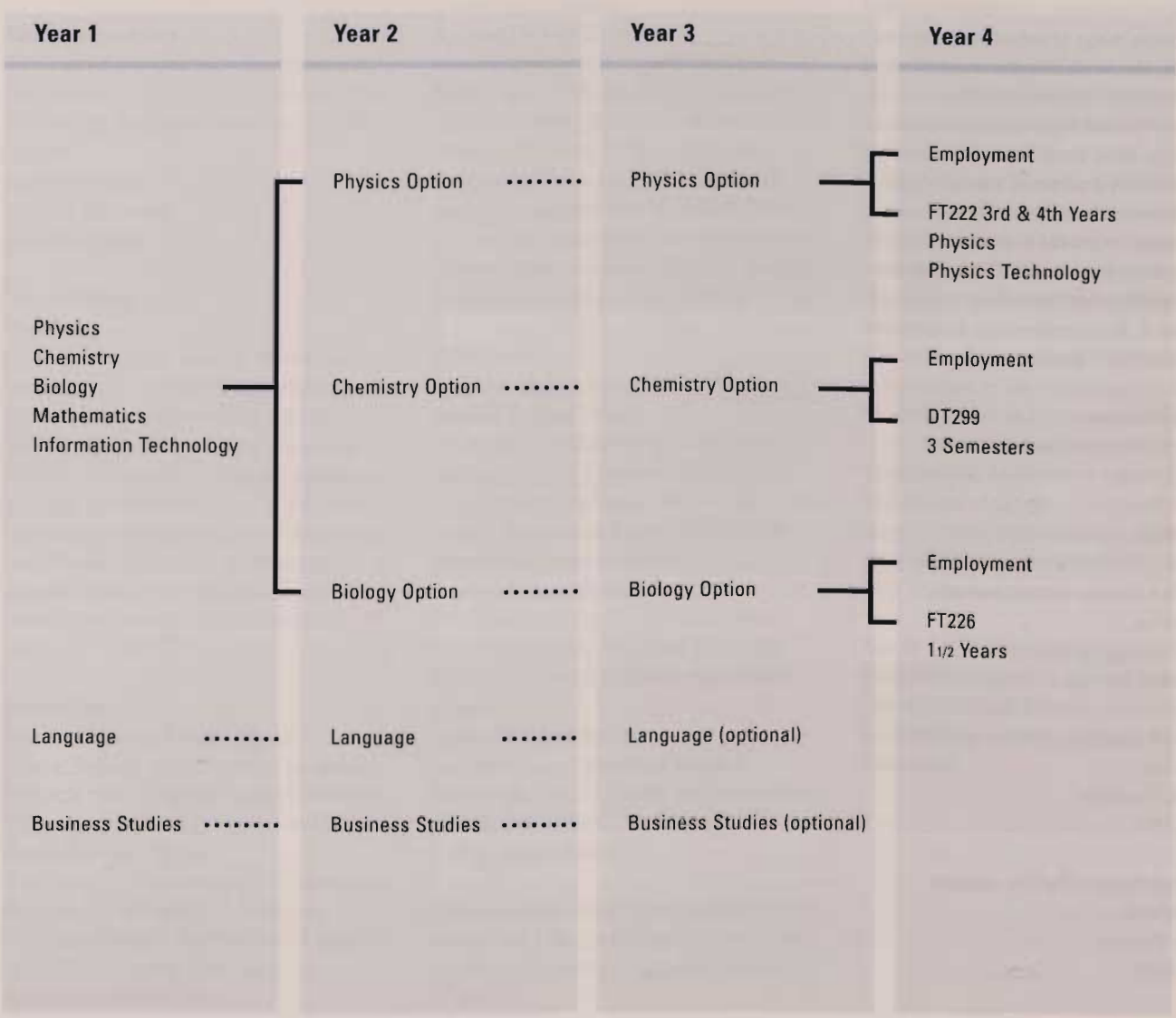
Re: Entry to first year, contact:
Dr. John Doran,
School of Physics
t: 01 402 4953

Re: Applied Biology Option, contact:
Dr. D. Neylan,
School of Biological Sciences
t: 01 402 4562

Re: Applied Chemistry Option, contact:
Mr. P. Ashall,
School of Chemistry
t: 01 402 4777

Re: Applied Physics Option, contact:
Dr. J. Sheridan,
School of Physics
t: 01 402 4559

Applied Science Diploma Options DT273



Computer Science DT266

Course Description
This course is designed to meet the requirements of students seeking training as computer personnel. It provides a theoretical and practical knowledge of computers, computer programming and the computing methods in use in industry, commerce,science and research.

Course Outline
First Year
Programming and Computer Technology, Algorithims, Information Technology, Mathematics, Statistics, Computer Physics, Business Studies, German or French

Second Year
Programming, Information Systems, Internet Services and Web Development, Software Engineering, Operating Systems, Mathematics of Computing, Numerical Analysis, Business Studies, German or French.

Third Year
Advanced Programming, Computer Networks, Information Systems, Systems Analysis and Design, Business Studies and one of the following options:
IT Management, Microprocessors, Set up your own Business, Operations Research Techniques, German, French.

Duration
Three years full-time.

Location
DIT Kevin Street.

Entry Requirements
Irish Leaving Certificate in six subjects, two of which must be at grade C3 or higher on higher level papers. Results must include at least B3 in ordinary level Mathematics and also English or Irish at either level.
Places may be offered to applicants with a qualification considered equivalent, as determined by the Institute. Successful entry is usually at a significantly higher level than that of the minimum requirements.

Award
Diploma in Computer Science of Dublin Institute of Technology with grades of Pass, Lower Merit, Upper Merit or Distinction.

Career Opportunities
The course is designed to train students for the positions of programmer, programmer/ analyst or network engineer in commercial and technological areas. The course content is sufficiently wide to encourage advancement to more senior positions in the computer industry within a few years. There is an emphasis on the practical application of computing.

Further Information
Ms. Sarah-Jane Delany
School of Mathematics, Statistics and Computer Science.
t: 01 402 4936
f: 01 402 4994

Graduate Diploma of the Institute of Food Science and Technology DT213

Course Description

This course is designed to assist candidates preparing for the Graduate Diploma in Food Science and Technology. The standard sought in this examination by the Institute of Food Science and Technology (UK) is equivalent to an Honours Degree. On completion of the course, candidates will have a good knowledge of the following areas:

(a) the composition, structure, chemical and biochemical reactions of food
(b) the interaction of microorganisms with foods
(c) the basic principles of human nutrition and their relevance to food supply
(d) the means by which foods are processed, preserved and stored, and the effect of such treatment on the qualities of foods.

Course Outline

(1) Chemistry, Biochemistry and Properties of Foods

(a) The components of food
(b) Chemical interactions in foods
(c) Food analysis
(d) Main classes of raw materials

(2) Microbiology

(a) General microbiology
(b) Fresh foods
(c) Food processing and processed foods
(d) Food-borne disease of microbiological origin
(e) Food factories and the distribution chain
(f) Methods of assessing microbiological quality of foods and food processing plant.

(3) Human Nutrition

(a) General introduction
(b) Main classes of substances of dietary value
(c) Assessment of diets
(d) Further aspects of the influence of diet on health
(e) Processing and nutrient content.

(4) Principles of the Production and Distribution of Food

(a) Processes of the food industry
(b) Food processing as an integral operation
(c) Packaging
(d) Food storage and distribution
(e) An outline of ancillary aspects of the food process.

Duration

One year full-time. It is also possible to prepare for this qualification by three years of part-time study.

Location

DIT Kevin Street.

Entry Requirements

BSc or equivalent. The Department of Education and Science has recognised this qualification as leading to an honours degree in Food Science and Technology for the purposes of Grant and Scholarship holders. Suitable students may thus transfer from other courses and other third level Colleges and may continue to hold their Grants and Scholarships.

Award

Graduate Diploma in Food Science and Technology of the Institute of Food Science and Technology of the UK.

Career Opportunities

Graduates of this course would expect to obtain employment as professional food technologists within the food industry in research, development or quality control, or proceed to postgraduate studies leading to MSc and PhD qualifications.

Further Information

Mr. John J. McEvoy BSc BA BD BSc (Econ) AIFSTI,
School of Biological Sciences.
t: 01 402 4884

Medical Laboratory Sciences DT214

Course Description
This course provides education in the appropriate sciences and technologies for those students seeking a career in Laboratory Medicine, Cell Biology and related fields. Students of the course may apply for student membership of the Institute of Medical Laboratory Sciences. In the third year of the course, students attend a designated hospital laboratory for inservice training. Students are continuously assessed on their performance during this year. The award of a Certificate is dependent on attaining a satisfactory grade in this hospital assessment.

Course Outline
First Year
Chemistry, Biology, Physics, Mathematics, French/German.

Second Year
Biochemistry, Physiology/Immunology, Applied Physics/Measurement and Instrumentation, Statistics/Computer Science, Medical Laboratory Sciences, French/German.

Third Year
Hospital in-service training.

Duration
Three years full-time, including a one year laboratory placement.

Location
DIT Kevin Street.

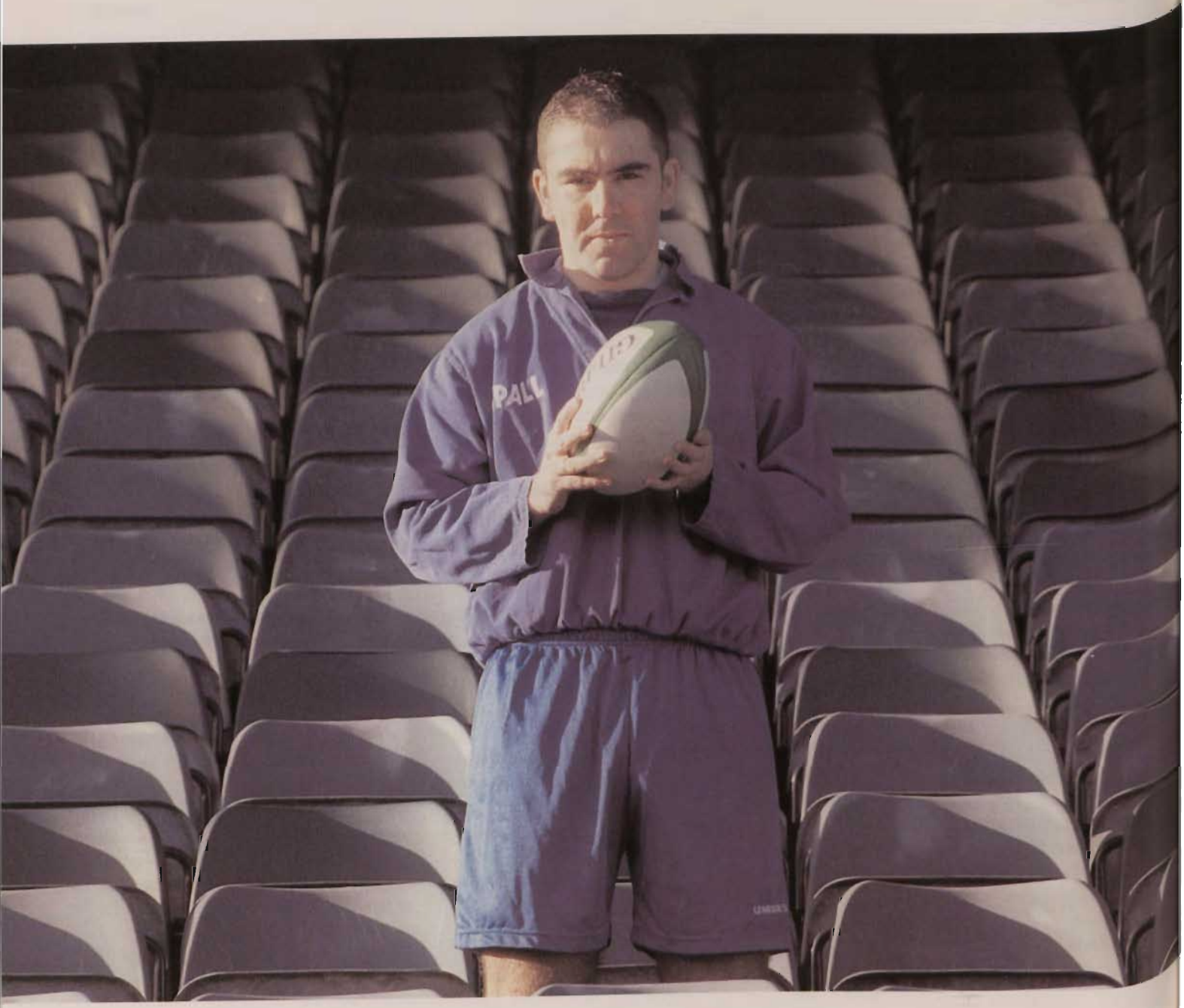
Entry Requirements
Irish Leaving Certificate in six subjects with grade C3 or higher in two subjects on higher level papers, one of which must be Chemistry. Subjects passed must include Mathematics, with a minimum of grade C3 at ordinary level, and English or Irish *or* such qualification as the Institute may deem equivalent.

Award
Certificate in Medical Laboratory Sciences of Dublin Institute of Technology with grades of Pass, Credit or Distinction.

Students who obtain the Certificate in Medical Laboratory Sciences are eligible to proceed to the two year full-time course leading to a **BSc (Biomedical Sciences)** of Dublin Institute of Technology.

Career Opportunities
Areas of employment include Veterinary and Medical Research Laboratories. Career opportunities also exist for Medical Laboratory Scientists in developed and developing countries.

Further Information
Mr. Colm P. O'Rourke, DipMedLabSc FIMLS,
School of Biological Sciences
t: 01 402 4746



Full-time courses in the Faculty of Tourism and Food

Degree Programmes

144	Culinary Arts	FT403
145	Environmental Health	FT491
147	Food Technology/Pharmaceutical Technology	FT480
148	Hospitality (Hotel and Catering) Management	FT401
150	Leisure Management	FT404
152	Tourism Marketing	FT402

Diploma/Certificate Programmes

153	Baking Technology and Management	DT200
154	Business Studies-Bar Management	DT541
155	Culinary Arts (Catering for Health)	DT444
156	Food Technology/Pharmaceutical Technology	DT490
157	Hotel and Catering Management	DT402
158	Hotel and Catering Supervision	DT440
159	Travel and Tourism	DT410

Having completed the courses indicated below or their equivalent with the requisite grade of award (Merit, Credit or Distinction), or having suitable industrial experience of at least one year in lieu, it may be possible to gain admission to a higher level course as indicated with full or partial exemptions.

Course Completed	Possible Higher Course
DT402	FT401 – Normally 3rd Year
DT440	DT402 – Normally 3rd Year
DT444	FT403 – Normally 2nd Year
DT493	DT490 – Normally 3rd Year (Food Technology Option)
DT498	DT490 – Normally 3rd Year (Pharmaceutical Technology Option)

Additional Costs

Students attending courses FT401, DT402, DT440 and DT444 are required to purchase uniforms (approximate cost £80), knives (approximate cost £100) and kitchen shoes (approximate cost £40). Students attending courses DT440 and DT444 are also required to purchase laboratory coats. Students attending courses FT491, FT480 and DT490 are required to purchase laboratory coats and manuals. Students attending courses FT491, FT480 and DT490 incur costs associated with field visits. Details of suppliers and requirements are available from the Faculty of Tourism and Food.

Culinary Arts FT403

Course Description

This course is designed to meet the demand for high calibre professional practitioners in Culinary Arts in the Hospitality and related Food Service Industries both in Ireland and internationally. This course is a unique programme which reflects a fundamental review of Culinary Arts Education worldwide and which combines an in-depth theoretical knowledge-base with high level aesthetic abilities and the development of communication, problem solving and personal skills in the participants in the context of a partnership between education, industry and individuals. A feature of the course is the availability of electives in years 3 and 4 reflecting the diversity of career opportunities available to graduates of the programme. In addition to college studies students are required to complete an industry/faculty supervised professional internship at the end of years 1, 2 and 3.

Course Outline

First Year

Culinary Arts Performance, Gastronomy, Food and Life Science, Gastronomic Art and Design, Language (French/German), Business and Communications, Information Technology, Professional Internship.

Second Year

Gastronomy, Gastronomic Art and Design, Culinary Arts/Food and Beverage Performance, Food and Life Science, Language (French/German), Business and Communication Studies, I.T./Culinary Arts, Professional Internship.

Third Year

Gastronomy, Culinary Arts Production (The Gastronomic Experience), Language (French/German), Business and Entrepreneurial Studies, Culinary Arts Systems Technology, Research Methods, Product Development, Professional Internship (International Placement). In addition students select one elective from the following Culinary Arts Majors: Pastry, Cold Kitchen, Hot Kitchen.

Fourth Year

Culinary Arts Production (Gastronomic Experience 2), Culinary Arts Major, Product Development 2, Culinary Arts Systems Technology, Business and Entrepreneurial Studies, Culinary Arts and Food Industry Seminars. In addition to the Culinary Arts Major, students select one elective from the following: Culinary Arts and the Media, Culinary Arts and the Environment, Ethics in Culinary Arts, Language. In this final year, each student undertakes a dissertation as part of the final examination.

Duration

Four years full-time.

Location

DIT Cathal Brugha Street.

Entry Requirements

Leaving Certificate in six subjects, two of which must be at grade C3 or higher on higher level papers. Results must include French or German or Spanish (ordinary level C3 or higher), Mathematics (ordinary level C3 or higher) and English or Irish.

Award

BA (Culinary Arts) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

This course recognises the complexity and diversity of the Culinary Arts in the Hospitality and Food Service Industries and the variety of career paths open to graduates. This course aims to provide an education for careers at graduate entry level within the Culinary Arts and Food Service Industries. Graduates' opportunities include: Professional Food Cookery/ Restaurant Organisation, Food Promotion, Food Writing and Styling, Food Product Development and Research. In addition, graduates may progress to a variety of postgraduate programmes in a range of disciplines.

Further Information

School of Culinary Arts and Food Technology
t: 01 402 4344

Environmental Health FT491

Course Description
This course examines the wide and varied links between the environment and human health. Students gain experience of examining issues such as food safety, environmental pollution, occupational safety and health risk management.

Course Outline
First Year
Biology, Chemistry, Physics, Built Environment, Environmental Health and Data Analysis.

Second Year
Food Science, Environmental Science, Built Environment, Environmental Health, Environmental Health Administration and Environmental Health Management.

Third Year
Food Safety & Quality, Food Technology, Environmental Health, Environmental Health Management, Environmental Management and Built Environment.

Fourth Year
Food Safety Management, Safety Management, Environmental Health Management, Built Environment, Environmental Management, Dissertation and Elective.

Duration
Four years full-time.

Location
DIT Cathal Brugha Street.

Entry Requirements
Leaving Certificate in six subjects two of which must be at grade C3 or higher on Higher Level papers. Results must include Irish or English and Mathematics and one of the following subjects: Physics, Chemistry, Physics and Chemistry, Biology, Construction Studies *or* an equivalent qualification. The Institute will consider applications from mature students (aged 23 years and over) who do not hold the appropriate formal minimum entry requirements.

Award
BSc (Environmental Health) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities
Graduates are eligible for appointment as Environmental Health Officers by Health Boards and may work on secondment to Local Authorities. Graduates may also work in industry in areas such as Food Control, Environmental Management and Quality Assurance.

Further Information
School of Food Science and Environmental Health
t: 01 402 4355

Food Technology/Pharmaceutical Technology FT480

Course Description

The course extends over four academic years. Years 1 and 2 are common to both the Food Technology and the Pharmaceutical Technology options of the course. Divergence occurs in Year 3 and specialisation is the main feature of year 4. A period of industrial placement occurs from May to October on completion of year 3.

Course Outline

First Year

Foundation Chemistry, Foundation Organic Chemistry, Biology, Physics, Mathematics, Computer Applications, Industry Studies, Communications, Language (optional).

Second Year

Organic Chemistry, Physical Chemistry, Biochemistry, Instrumental Chemical Analysis, Microbiology, Introduction to Process Technology, Nutrition, Statistics, Language (optional).

Third Year (Food Technology Option)

Food Chemistry, Biotechnology, Food Analysis, Food Microbiology, Food Processing, Quality Control/Quality Assurance, Food Entomology and Parasitology, Food Protection, Environmental Management, Technical Communication and Information Access, Elective.

Third Year (Pharmaceutical Technology Option)

Pharmaceutical Chemistry, Pharmaceutical Analysis, Pharmaceutical Microbiology, Chemical Technology, Technical Communication and Information Access, Biotechnology, Pharmaceutical Formulation and Manufacture, Quality Control, Quality Assurance, Pharmacology and Toxicology, Environmental Management, Legislation, Elective.

Fourth Year (Food Technology Option)

Food Science, Food Technology, Food Business Management, Industrial Placement, Project.

Fourth Year (Pharmaceutical Technology Option)

Pharmaceutical Technology, Advanced Microbiology, Biotechnology and Molecular Physiology, Analytical Quality Assurance, Industrial Placement, Project.

Duration

Four years full-time.

Location

DIT Cathal Brugha Street.

Entry Requirements

Irish Leaving Certificate in six subjects including English or Irish and Mathematics, with grade C3 or higher in two subjects on higher level papers *one* of which must be Physics, Chemistry, Physics and Chemistry, or Biology *or* an equivalent qualification. The Institute considers applications from mature students (aged 23 years and over) who do not hold the appropriate minimum entry requirements.

Award

BSc Food Technology or **BSc (Pharmaceutical Technology)** of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

This course is designed to provide a programme of education which will allow entry into a career in the food industry in areas such as production, processing, quality assurance, food analysis and product development (Food Technology Option) or entry into the pharmaceutical industry in areas such as instrumental analysis, quality control, quality assurance and good manufacturing practice (Pharmaceutical Technology Option).

Further Information

School of Food Science & Environmental Health
t: 01 402 4355

Hospitality (Hotel and Catering) Management FT401

Course Description

The course title reflects a wider focus for the programme enabling hotel and catering management elements to be retained while offering enhanced career opportunities in the wider services sector. This degree programme offers a challenging curriculum which aims to develop a holistic approach to management while developing interpersonal skills. The programme involves a variety of approaches to learning with significant elements of continuous assessment throughout.

Course Outline

First Year

Management, Communication, Accounting, Language (French/German/Spanish), Marketing, Economics for the Hospitality Industry, Hospitality Operations Management, Statistics and Information Technology.

Second Year

Hospitality Operations Management, Management, Human Resource Management, Accounting, Language, Hospitality Marketing, Economics for the Hospitality Industry, Hospitality Computer Systems/ Management Science and Hospitality Law.

Third Year

Strategic Management, Human Resource Management, Financial Management, Language, Hospitality Marketing, Management Science/Information Technology Management, Hospitality Law and one elective. A period of professional internship in the hospitality industry will be undertaken in this year, preceded by a tailored induction programme. The Internship will be arranged and supervised by the School of Hospitality Management and Tourism.

Fourth Year

Strategic Hospitality Management, Finance, Technology Management, Language, Strategic Marketing, Hospitality Industry Seminar, one elective. In this final year, each student undertakes a dissertation as part of the final examination.

During the third and fourth year, students can select an elective from the following range of subject areas: Enterprise Development, Environmental Management in Hotels, Managing Innovation in Hospitality Organisations, Property Management, Quality Service Systems, Tourism, Network Management, Entertainment and Event Management, Internet Marketing, Revenue and Yield Management, Conference and Business Travel. The provision of electives is subject to demand and availability.

Duration

Four years full-time.

Location

DIT Cathal Brugha Street.

Entry Requirements

Leaving Certificate in six subjects with at least grade C3 in two at Higher level. Results must include French, German or Spanish (Ordinary level C3 or higher), Mathematics (Ordinary level C3 or higher) and English or Irish *or* an equivalent qualification. The final selection of candidates for places on the course will be made on the basis of Leaving Certificate (or equivalent) results. Places may be offered to mature students who meet certain criteria in respect of age, suitability and experience in the industry.

Award

BSc (Management) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Graduates also qualify for membership of the Irish Hotel and Catering Institute (MIHCI) and licentiateship of the Hotel, Catering and Institutional Management Association (U.K.) (HCIMA).

Career Opportunities

This programme recognises the complex nature of the hospitality industry and the varying career paths open to graduates. This programme aims to provide the basis for a career at graduate entry level within the hospitality industry. Career opportunities include hotel management, catering management, restaurant management, retailing sector, the broad tourism field, service industries. In addition graduates may progress to a variety of postgraduate programmes in a range of disciplines.

Further Information

School of Hospitality Management and Tourism
t: 01 402 4352

Leisure Management FT404

Course Description

The BA (Leisure Management) is the only three-year direct-entry ordinary degree in this discipline available in the country. It focuses on the broad leisure industry, and offers students an opportunity to participate in this dynamic sector of the Irish economy. The course prepares successful graduates for entry into the industry at management level. Its design reflects many of the initiatives taken in applied management education at this level, including a supervised industrial placement, practical modules, and integrated continuous assessment. Within the practical modules students are assessed for recognised qualifications in First Aid, Lifesaving and Fitness Instruction. Applicants should note that there is a strong emphasis on business subjects and on academic performance generally.

Course Outline

First Year

Leisure Industry Studies, Health Nutrition and Exercise, Quantitative Methods and Computer Applications, Management; Accounting, Language (Irish/French/German), Communications and Customer Care, Food and Beverage Studies, First Aid, Preparation for Professional Practice.

Second Year

Leisure Operations, Health Nutrition and Exercise,Management, Accounting, Language (Irish,French or German), Property Management, Marketing, Tourism, Human Resource Management, Preparation for Professional Placement.

Third Year

Business Policy; Financial Management and Information Technology Management; Marketing; Business and Environment Law; Language (Irish, French or German); Professional Placement; Electives (2).

Duration

3 years full-time.

The examinations in second year take place in March after which each student must complete a four-month supervised placement in industry. This placement is remunerated and may be undertaken in Ireland or abroad.

Location

DIT Cathal Brugha Street.

Entry Requirements

Irish Leaving Certificate or equivalent with Grade D3 or higher on ordinary level papers in at least five subjects including English or Irish and Mathematics. Applicants must also obtain Grade D3 or higher at ordinary level in French or German or Irish. The final selection of standard applicants for places on the course will be made on the basis of Leaving Certificate (or equivalent) results. Places may be offered to mature students who meet certain criteria in respect of age, suitability and experience in the leisure industry.

Candidates who have successfully completed relevant courses at third or PLC level may be considered for entry into first, second or third year of the course, as appropriate. These candidates will be assessed by qualifications and interview.

Award

BA (Leisure Management) of Dublin Institute of Technology.

Career Opportunities

On completion of the course, graduates would be eligible for management positions in aquatic facilities, entertainment complexes, leisure centres, theme parks, hotel leisure complexes, golf clubs, tennis clubs and other recreation related developments. There are also graduate opportunities in consultancy, research and further education.

Further Information

School of Hospitality Management and Tourism
t: 01 402 4363
e: leisure @dit.ie
w: http://leisure.dit.ie/

Tourism Marketing FT402

Course Description

This course has been designed to provide students with an education appropriate for tourism marketing. The course has been specifically developed to meet the needs of the rapidly expanding tourism sector, by focusing on the growing requirement for graduates with a marketing competence. The course is delivered through an interdisciplinary programme of studies which provides students with a general understanding of the management of tourism enterprises, together with a detailed understanding of the marketing function within such enterprises. A feature of the course is the availability of a series of elective subjects during year 3 and year 4, which gives students the opportunity of developing a programme of studies appropriate to their career aspirations. In addition to college studies, students are required to complete a supervised project placement in tourism enterprises in their final year. Students are also required to gain appropriate industry experience during their summer vacations.

First Year

Tourism, Tourism Marketing, Tourism Quantitative Methods, Accounting, European Language, Computer Applications, Business Communications, Organisational Theory and Planning, Environmental and Landscape Heritage.

Second Year

Tourism, Tourism Marketing, Heritage Interpretation, Statistics for Tourism, Tourism Marketing Research, Intermediary Marketing, Accountancy, European Language, Tourism Information Management.

Third Year

European Tourism Policy, Enterprise Development, Environmental Control and Management, International Tourism Marketing, Management Science for Tourism, Tourism Law, Financial Management, European Language, Tourism Information Technology, Tourism Electives* (Rural Tourism, Leisure Tourism, Ethnic Tourism, Environmental Tourism).

Fourth Year

Strategic Tourism Marketing, Strategic Tourism Planning, International Tourism Operations, International Tourism Policy, European Language, Electives* (Tourism Location Analysis,Business Tourism, International Tourism Law, Transport Economics, International Human Resources Management and Industrial Relations).

*Electives are subject to demand and availability.

Duration

Four years full-time.

Location

DIT Cathal Brugha Street.

Entry Requirements

Leaving Certificate in six subjects with at least grade C3 in two Higher Level subjects and at least grade D3 in four Ordinary or Higher Level subjects. Results must include Irish or English, at least grade C3 in Higher Level Irish, French, German or Spanish, at least grade C3 in Ordinary Level Mathematics or at least grade D3 in Higher Level Mathematics or an equivalent qualification. The Institute considers applications from mature students (aged 23 and over) who do not hold the appropriate minimum entry requirements. Such applicants may be required to undertake selection tests and interviews.

Award

BSc (Tourism Marketing) of Dublin Institute of Technology with grades of Pass, Lower Second Class Honours, Upper Second Class Honours or First Class Honours.

Career Opportunities

The tourism sector is expanding rapidly, with some 40% of all new jobs in the next five years expected to be created within this sector. Graduates with marketing competence can expect to find employment in the marketing function in a variety of tourism enterprises including Tourism Co-Operatives, National Tourism Boards, Hotels, Interpretative Centres, Tour Operators, Visitors Centres, (domestic and international).

Further Information

School of Hospitality Management and Tourism
t: 01 402 4352

Baking Technology and Management DT200

Course Description
This three year full-time course is designed to prepare students for a career in the bakery and associated food industries. The course content is broadly based and covers all aspects of bakery and food science, bakery technology and product management. This is very much a hands-on course with considerable emphasis being placed on practical work, including bread making, cake and pastry manufacture.

Course Outline
First Year
Chemistry, Technology and Process Control, Manufacture, Raw Material Studies, Business Communications and Organisation, Computing, German, Practical Baking of Breads and Flour Confectionery.

Second Year
Food Science, Technology, Manufacture, Ingredients, Production Planning, Accounting, Economics, Information Systems, German, Practical Baking of Breads and Flour Confectionery.

Third Year
Microbiology and Hygiene, Material Testing and Product Development, Technology, Business Administration and Financial Management, Human Resource Management, Marketing, Project, Practical Baking of Continental Breads, Confectionery, Pastry and Biscuits.

Duration
Three years full-time.

Location
DIT Kevin Street.

Entry Requirements
Irish Leaving Certificate in five subjects including Mathematics and English or Irish at either level or such qualification as the Institute may deem equivalent.

Award
Diploma in Baking Technology and Management of Dublin Institute of Technology with grades of Pass, Merit or Distinction as appropriate.

Career Opportunities
Graduates have secured employment in a wide range of activities within the bakery and associated food industries in the area of production, product development, research, quality control, technical sales. They may also proceed to further education.

Further Information
Mr. Derek C. O'Brien
NBDip. FTC (CGLI) MIIB MBSB
Head, National Bakery School
t: 01 402 4566

Business Studies-Bar Management DT541

Course Description
This course is specifically designed for those who intend to enter the licensed trade and to progress to ownership/management of a licensed premises. Licensees throughout the country show a particular interest in this course as being appropriate to school-leaving members of their families. The range of course topics equips participants with a comprehensive knowledge of the operation of a licensed trade business, regardless of size and type. Participants are provided with the expertise necessary to develop various aspects of a licensed business.

Course Outline
First Year
Commodities, Hygiene, Communications, French, Financial Control, Marketing/ Management, Law, Information Technology, Economics, Bar Catering, Business Administration/Law.

Second Year
Commodities, Financial Control, Communications, Applied Management/ Marketing, Economics, Enterprise Development, Law/Property Acquisition, French, Information Technology, Bar Catering, Feasibility Study.

Duration
Two years full-time.

Location
DIT Mountjoy Square.

Entry Requirements
Leaving Certificate with grade D3 or higher in English or Irish and Mathematics and three other subjects on ordinary level papers.

Award
Certificate in Business Studies (Bar Management) of Dublin Institute of Technology.

Career Opportunities
Ownership/management of licensed premises.

Further Information
School of Retail & Services Management
t: 01 402 4143

Culinary Arts (Catering for Health) DT444

Course Description

This course is designed to combine education for work in food preparation and production along with professional training and general studies to prepare men and women for careers as professional chefs in the changing world of healthier eating in both commercial and non-commercial catering.

Course Outline

First and Second Year

Preparation and Service of Food and Beverages, Applied Science, Hygiene and Safety, Nutrition, Business Affairs, Diets and Diseases, Biology, Food Chemistry, Physiology, German, French. At the end of the second year, students undertake a four month approved industrial training period prior to the award of the certificate.

Duration

Two years full-time.

Location

DIT Cathal Brugha Street.

Entry Requirements

Leaving Certificate in five subjects with Grade D3 or higher on ordinary level papers. Results must include Irish or English and Mathematics *or* an equivalent qualification. The Institute considers applications from mature students (aged 23 years and over) who do not hold the appropriate minimum entry requirements.

Award

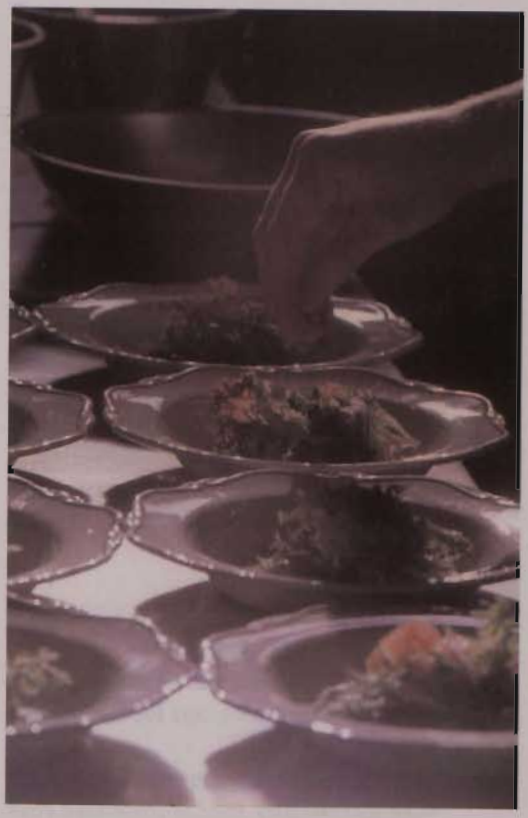
Certificate in Culinary Arts (Catering for Health) of Dublin Institute of Technology.

Career Opportunities

Graduates of this course may expect to make careers as professional chefs in hotels, restaurants, industrial catering and as diet chefs/technicians in hospitals, health centres, spas, diet and reducing clinics and sports catering.

Further Information

Ms. Dorothy Gray,
School of Culinary Arts and Food Technology
t: 01 402 4344



Food Technology/Pharmaceutical Technology DT490

Course Description

This is a three year full time course consisting of two options namely Food Technology and Pharmaceutical Technology. Year 1 of the Diploma is common to both areas with divergence into the options at the beginning of Year 2.

Course Outline

The course will be delivered in a modular format and Level 1 is common to both the Food Technology and the Pharmaceutical Technology options of the course.

First Year

Foundation Chemistry, Foundation Organic Chemistry, Biology, Physics, Mathematics, Computer Applications, Industry Studies, Communications, Language (Optional).

Second Year (Food Technology Option)

Food Biochemistry, Food Microbiology, Food Processing, Introduction to Process Technology, Nutrition, Food Toxicology, Food Entomology and Parasitology, Instrumentation, Quality Control, Statistics, Food Production, Industry Studies, Language (Optional)

Second Year (Pharmaceutical Technology Option)

Pharmaceutical Biochemistry, Pharmaceutical Microbiology, Pharmaceutical Chemistry, Pharmacology and Toxicology, Nutrition, Instrumentation, Quality Control, Statistics, Industry Studies, Language (Optional)

Third Year (Food Technology Option)

Food Chemistry, Analytical Food Chemistry, Food Microbiology, Biotechnology, Food Processing, Food Process Technology, Production Management, Food Protection, Environmental Management, Quality Management, Food Business Policy, Food Marketing.

Third Year (Pharmaceutical Technology Option)

Pharmaceutical Chemistry, Analytical Pharmaceutical Chemistry, Pharmaceutical Microbiology, Principles of Pharmaceutical Technology, Pharmaceutical Formulation and Manufacture, Biotechnology, Quality Management, Environmental Management, Pharmaceutical Legislation.

Duration

Three years full-time.

Location

DIT Cathal Brugha Street.

Entry Requirements

Irish Leaving Certificate in six subjects with grade D3 or higher on ordinary level papers. Results must include Irish or English, Mathematics and one of the following subjects: Physics, Chemistry, Physics and Chemistry or Biology or an equivalent qualification. The Institute considers applications from mature students (aged 23 years and over) who do not hold the appropriate minimum entry requirements.

Award

Diploma in Food Technology or **Diploma in Pharmaceutical Technology** of Dublin Institute of Technology.

Career Opportunities

Graduates of the Diploma in Science (Food Technology) are eligible for employment in food processing, quality control, food analysis and product development particularly at technician level. Graduates of the Diploma in Science (Pharmaceutical Technology) are eligible for employment in meeting the technical needs of the pharmaceutical/healthcare industry.

Further Information

School of Food Science & Environmental Health
t: 01 402 4355

Hotel and Catering Management DT402

Course Description
This programme offers a challenging opportunity for those individuals who wish to pursue a career in management in the hotel and catering industry. This dynamic course provides a future orientated and industry focused curriculum. It encourages the student to assume a central role in his/her education. This diploma programme offers the student a major in the final year of the course enabling him/her to specialise in one of the following areas: Food and Beverage Management, Front Office and Accommodation Management or Conference and Leisure Management.

Course Outline

First Year
Management, Accounting, Economics, Hospitality System, Communications and Customer Care, Computer Applications, Front Office, Accommodation Management, Quantitative Methods, Language (French/German/Spanish), Food and Beverage Management, Hospitality, Health and Safety Management.

Second Year
Management, Accounting, Language (French/German/Spanish), Marketing, Tourism, Human Resource Management, Hospitality Computer Systems, Food and Beverage Management, Communication. A period of professional internship in the hospitality industry will be undertaken in this year preceded by a tailored induction programme.

Third Year
Business Policy, Financial Management, Language (French/German/Spanish), Marketing, Law, Enterprise Development, Technology Management, Property Management. **Majors:** Food and Beverage Management, Front Office and Accommodation Management, Conference & Leisure Management.

Duration
Three years full-time.

Location
DIT Cathal Brugha Street.

Entry Requirements
Leaving Certificate or equivalent with Grade D3 or higher on ordinary level papers in at least five subjects including English or Irish and Mathematics. Results must include Grade D3 or higher on ordinary level French, German or Spanish. The final selection of candidates for places on the course will be made on the basis of Leaving Certificate (or equivalent) results. Places may be offered to mature students who meet certain criteria in respect of suitability and experience in the hospitality industry. Transferees from other courses will be assessed by interview.

Award
Diploma in Hotel and Catering Management of Dublin Institute of Technology.

Graduates also qualify for membership of the Irish Hotel and Catering Institute (MIHCI) and the Catering Managers Association of Ireland (MCMA).

Career Opportunities
The hotel and catering sector is expanding globally and this creates many possible career paths. Graduates can expect career opportunities in the hotel and catering sector in such areas as food and beverage management, front office management, accommodation management and conferencing in Ireland and abroad. In addition, graduates may progress to a variety of post-graduate programmes in a range of disciplines.

Further Information
School of Hospitality Management and Tourism
t: 01 402 4352

Hotel and Catering Supervision DT440

Course Description

This course is designed to provide a broad basic education and training for those who chose careers in the hotel and catering industry. In addition to their college studies students are required to undertake two months professional experience during the first summer vacation and four months industrial internship (approved by the Faculty) at the end of the course, i.e. a total of 6 months.

Course Outline

First Year

Accounting, Law, Behavioural Science, Food and Beverage Operations, Accommodation, Food Microbiology and Hygiene, Health and Safety, French, Computer Applications.

Second Year

Accounting, Supervisory Management, Law, Ethics, Hotel and Catering Operations, Food Science and Nutrition, Accommodation, French, Computer Applications.

Duration

Two years full-time.

Location

DIT Cathal Brugha Street.

Entry Requirements

Leaving Certificate in five subjects with Grade D3 or higher on Ordinary Level papers. Results must include Irish or English and Mathematics or an equivalent qualification. The Institute considers applications from mature students (aged 23 years and over) who do not hold the appropriate minimum entry requirements.

Award

Certificate in Hotel and Catering Supervision of Dublin Institute of Technology. Graduates also qualify for Membership of the Irish Hotel and Catering Institute (MIHCI).

Career Opportunities

The majority of graduates from this course are employed in supervisory positions (food, beverages or accommodation) in hotels, hospitals, clubs, industrial canteens and contract catering.

Further Information

Ms. Mary McGuinness, Course Tutor,
Mr. Andrew Whelan, Course Tutor,
School of Culinary Arts and Food Technology
t: 01 402 4344

Travel and Tourism DT410

Course Description
This course is designed to provide a broad education and training for those wishing to pursue a career in the travel and tourism industry. The focus of the course is on applied business subjects in addition to specific travel and tourism training modules. Students gain practical experience in a relevant organisation during the summer period.

Course Outline
First Year
Tourism, Travel Agency Practice, Statistics, Accountancy, Communication, Computer Applications, Sales and Marketing, Ticketing, Major and Minor European Language, Keyboard Skills.

Second Year
Tourism, Travel Agency Practice, Accountancy, Tourism Information Technology, Tourism Marketing, Tourism Management, Yield Management, Travel and Tourism Law, Tour Operations, Major and Minor European Language.

Duration
Two years full-time.

Location
DIT Cathal Brugha Street.

Entry Requirements
Leaving Certificate in five subjects with grade D3 or higher on Ordinary Level papers. Results must include Irish or English, Mathematics and at least grade C3 in Higher Level French, German or Spanish or an equivalent qualification. The Institute considers applications from mature students (aged 23 years and over) who do not hold the appropriate minimum entry requirements.

Award
Certificate in Travel and Tourism of Dublin Institute of Technology.
Students of this course are also prepared for the Standard and Advanced Diploma examinations of IATA/UFTAA, Geneva (International Air Transport Association/ Universal Federation of Travel Agents Association). Entry fees for these examinations are payable by the students.

Career Opportunities
Graduates of the course are employed in travel agencies, transport organisations, tourism offices, airlines, tour operators and reservations companies.

Further Information
School of Hospitality Management and Tourism
t: 01 402 4352

dublin institute of technology

Degree Courses Summary of Programmes 2001-2002

Course Title	Code	Duration (Years)	Places 2000	Entry Requirements (Irish Leaving Certificate)					Faculty
				Minimum number of Subjects	Honours	Minimum grade in Maths	English or Irish	Other subject requirements (See Key)	
Applied Sciences Options: Chemistry and Physics; Chemistry and Mathematics; Mathematics and Physics; Food Science and Food Technology; Physics and Physics Technology	FT222	4	90	6	2	OB3	OD3	C	Science
Applied Sciences/Computing Options: Computer Science and Physics; Computer Science and Mathematics; Computer Science and Chemistry; Computer Science and Software Engineering	FT225	4	50	6	2	OB3	OD3	C	Science
Architecture *	FT101	5	55	6	2	OD3	OD3		Built Environment
Business Studies	FT351	4	120	6	2	OD3	OD3		Business
Communications – Journalism	FT353	4	30	6	2		HC3		Applied Arts
Computer Engineering	FT281	4	40	6	2	HC3	OD3	N	Engineering
Construction Economics and Management	FT111	4	45	6	2	OD3	OD3		Built Environment
Culinary Arts	FT403	4	64	6	2	OC3	OD3	G	Tourism and Food
Design – Interior + Furniture Ω	FT544	4	30	6	2				Applied Arts
Design – Visual Communication Ω	FT545	4	30	6	2				Applied Arts
Early Childhood Care and Education	FT472	3	44	6	2	OD3	OD3		Applied Arts
Electrical/Electronic Engineering † Options: Electrical Power Systems; Control Systems; Communication Systems; Computer Engineering	FT221	4	80	6	2	HC3	OD3	B	Engineering
Engineering Options: Building Services; Mechanical; Manufacturing; Structural	FT125	4	90	6	2	HC3	OD3	A	Engineering
Environmental Health	FT491	4	34	6	2	OD3	OD3	K	Tourism and Food
Environmental Planning and Management	FT116	4	New	6	2		OD3		Built Environment

OTHER SUBJECT REQUIREMENTS KEY

- **A** At least Higher level C3 in one of: Physics, Chemistry, Physics and Chemistry, Applied Mathematics, Construction Studies or Engineering.
- **B** At least Higher level C3 in one of: Physics, Chemistry, Physics and Chemistry, Applied Mathematics or Engineering.
- **C** At least Higher level C3 in one of: Mathematics, Applied Mathematics, Physics, Chemistry, Physics and Chemistry, Biology, Agricultural Science, Engineering or Technical Drawing.
- **D** At least Higher level C3 in Chemistry.
- **E** At least Higher level C3 in one of: Physics, Chemistry, Physics and Chemistry or Biology.
- **F** At least Higher level C1 in two subjects one of which must be French (for FT255), German (for FT256) or Spanish (for FT257).
- **G** At least Ordinary level C3 in French or German or Spanish.
- **H** At least Higher level C3 in one of Irish, French, German or Spanish.

Course Title	Code	Duration (Years)	Places 2000	Entry Requirements (Irish Leaving Certificate)					Faculty
				Minimum number of Subjects	Honours	Minimum grade in Maths	English or Irish	Other subject requirements (See Key)	
Fine Art Ω	FT546	4	40	6	2				Applied Arts
Food Technology /Pharmaceutical Technology	FT480	4	New	6	2	OD3	OD3	E	Tourism and Food
Geomatics	FT112	4	35	6	2	OB3	OD3		Built Environment
Hospitality (Hotel & Catering) Management	FT401	4	64	6	2	OC3	OD3	G	Tourism and Food
Human Nutrition and Dietetics	FT223	4	20	6	3	OD3	OD3	D	Science
Information Systems Development	FT354	4	45	6	2	OB1	OB2		Business
International Business and Languages (English)	FT258	4	20	Contact Faculty for details					Applied Arts/Business
International Business and Languages (French)	FT255	4	20	6	2	OD3	OD3	F	Applied Arts/Business
International Business and Languages (German)	FT256	4	20	6	2	OD3	OD3	F	Applied Arts/Business
International Business and Languages (Spanish)	FT257	4	20	6	2	OD3	OD3	F	Applied Arts/Business
Leisure Management	FT404	3	32	5		OD3	OD3	M	Tourism and Food
Marketing	FT541	4	100	6	3	OC3	OC3		Business
Management and Marketing	FT542	4	80	6	2	OD3	OD3		Business
Media Arts	FT352	4	30	6	2				Applied Arts
Music Δ	FT601	4	40	6	2	OD3	OD3		Applied Arts
Optometry	FT224	4	25	6	2	OB3	OB3	E	Science
Photography Ω	FT259	4	25	6	2				Applied Arts
Printing Management	FT130	4	40	6	2				Applied Arts
Property Economics (Valuation Surveying)	FT110	4	45	6	2	OD3	OD3		Built Environment
Social Care	FT471	4	44	6	2	OD3	OD3		Applied Arts
Software Development and Internet Systems	FT228	4	24	6	2	OC3	OD3		Science
Retail and Services Management	FT543	4	40	6	2	OC3	OC3		Business
Tourism Marketing	FT402	4	32	6	2	OC3	OD3	H	Tourism and Food
Transport and Logistics	FT358	4	New	6	2	OD3	OD3		Business
Transport Technology	FT128	4	64	6	2	OB3	OD3	L	Engineering

K At least Ordinary level D3 in one of Physics, Chemistry, Physics and Chemistry, Biology or Construction Studies.

L At least Ordinary level C3 in one of Physics, Chemistry, Physics and Chemistry, Applied Mathematics or Engineering.

M At least Ordinary level D3 in French or German or Irish.

N At least Higher level C3 in one of Physics, Chemistry, Physics and Chemistry or Applied Mathematics.

Selection

* Applicants must attend a suitability test in March

† Weighted subjects (see Engineering Faculty booklet)

Ω Applicants must submit a portfolio on 8th or 9th of March

Δ Applicants must attend an audition/interview in March /April.

Diploma/Certificate Courses

Summary of Programmes 2001-2002

Course Title	Code	Duration (Years)	Award	Places 2000	Entry Requirements (Irish Leaving Certificate)					Faculty
					Minimum number of Subjects	Honours	Minimum grade in Maths	English or Irish	Other subject requirements [See Key]	
Applied Electronics ø	DT287	3	Diploma	40	5		OB3	OD3		Engineering
Applied Science ø	DT273	3	Diploma	120	5		OD3	OD3		Science
Architectural Technology *	DT102	3	Diploma	55	5		OD3	OD3		Built Environment
Auctioneering, Valuation and Estate Agency ø	DT116	2/3	Cert/Dip	45	5		OD3	OD3		Built Environment
Baking Technology and Management	DT200	3	Diploma	26	5		OD3	OD3		Tourism and Food
Buildings Maintenance Technician	DT171	2	Certificate	40	5		OD3	OD3		Built Environment
Building Services Engineering Technician ø	DT127	2/3	Cert/Dip	60	5		OD3	OD3		Engineering
Business Studies ø	DT315	2	Certificate	120	5		OD3	OD3		Business
Business Studies – Bar Management	DT541	2	Certificate	40	5		OD3	OD3		Tourism and Food
Civil Engineering Technician ø	DT126	2/3	Cert/Dip	60	5		OD3	OD3		Engineering
Computer Science ø	DT266	3	Diploma	45	6	2	OB3	OD3		Science
Construction Technology ø	DT114	2/3	Cert/Dip	40	5		OD3	OD3		Built Environment
Culinary Arts [Catering for Health]	DT444	2	Certificate	48	5		OD3	OD3		Tourism and Food
Design – Display Ω	DT515	2	Certificate	30	5					Applied Arts
Design Technology Ω	DT516	2	Certificate	24	5					Applied Arts
Electrical and Control Engineering Technician ø	DT231	3	Diploma	50	5		OB3	OD3		Engineering

OTHER SUBJECT REQUIREMENTS KEY

- P At least Higher level C3 in Chemistry.
- Q At least Ordinary level D3 in French or German or Spanish.
- R At least Higher level C3 in French or German or Spanish.
- S At least Ordinary level D3 in one of: Physics, Chemistry, Physics and Chemistry or Biology.

Selection

- * Applicants must attend a suitability test in March.
- Applicants must submit a portfolio on 8th or 9th of March.
- Δ Applicants must attend an audition/interview in March/April.
- Irish does not meet the language requirement.
- ø Opportunities are available for continuing studies to Diploma/Degree.

Course Title	Code	Duration (Years)	Award	Places 2000	Entry Requirements (Irish Leaving Certificate)					Faculty
					Minimum number of Subjects	Honours	Minimum grade in Maths	English or Irish	Other subject requirements (See Key)	
Electrical Services Engineering Technician	DT244	2	Certificate	40	5		OD3	OD3		Engineering
Electronic and Computer Systems	DT289	2	Certificate	40	5		OC3	OD3		Engineering
Food Technology/Pharmaceutical Technology ø	DT490	3	Diploma	New	6		OD3	OD3	S	Tourism and Food
Hotel and Catering Management ø	DT402	3	Diploma	80	5		OD3	OD3	Q	Tourism and Food
Hotel and Catering Supervision ø	DT440	2	Certificate	48	5		OD3	OD3		Tourism and Food
Industrial Electronic Systems ø	DT284	2/3	Cert/Dip	40	5		OB3	OD3		Engineering
Management ø	DT521	2	Certificate	80	5		OD3	OD3		Business
Manutronics Automation ø	DT129	2/3	Cert/Dip	50	5		OD3	OD3		Engineering
Marketing ø	DT503	2/3	Cert/Dip	50	5		OD3	OD3		Business
Mechanical Engineering Technician ø	DT128	2/3	Cert/Dip	60	5		OD3	OD3		Engineering
Media Production	DT517	2	Certificate	15	5					Applied Arts
Medical Laboratory Sciences ø	DT214	3	Certificate	36	6	2	OC3	OD3	P	Science
Music Foundation Δ	DT604	1		25	5		OD3	OD3		Applied Arts
Preliminary Engineering ø	DT120	1		50	5		OD3	OD3		Engineering
Retail Enterprise Management ø	DT523	2	Certificate	40	5		OD3	OD3		Business
Retail Marketing ø	DT522	2	Certificate	40	5		OD3	OD3		Business
Security Management ø	DT525	2	Certificate	40	5		OD3	OD3		Business
Social Care Practice	DT467	3	Diploma	New	5		OD3	OD3		Applied Arts
Speech and Drama Studies Δ	DT603	3	Diploma	25	5	2		OD3+		Applied Arts
Technology (Integrated Maintenance) ø	DT125	2/3	Cert/Dip	25	5		OD3	OD3		Engineering
Transport Engineering/Management ø	DT150	2/3	Cert/Dip	64	5		OD3	OD3		Engineering
Travel and Tourism	DT410	2	Certificate	32	5		OD3	OD3	R	Tourism and Food

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