1993

Fulltime Course Prospectus : 1993

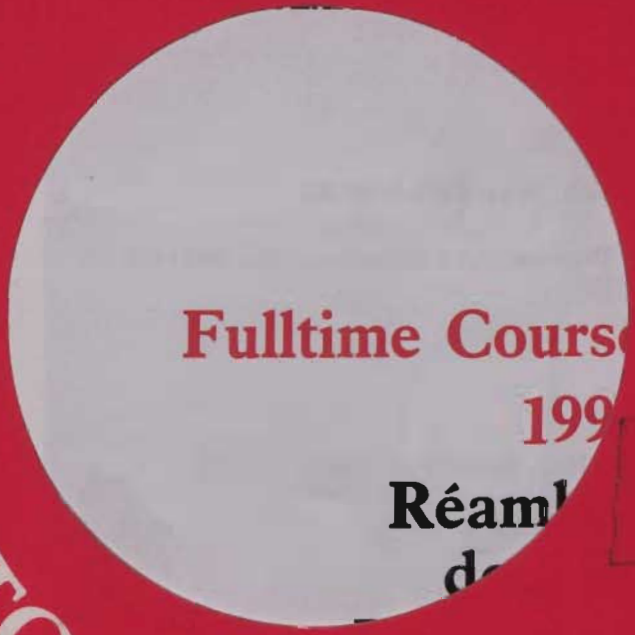
Dublin Institute of Technology

Institiúid Teicneolaíochta Bhaile Átha Cliath

Sráid Caoimhín Baile Átha Cliath 8

DUBLIN INSTITUTE of TECHNOLOGY

KEVIN STREET DUBLIN 8



Fulltime Cours

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TOSACH MAITH...

Réamheolaire do Cúrsaí Lánaimsearacha

1993

FULLTIME COURSE PROSPECTUS

DUBLIN INSTITUTE OF TECHNOLOGY, KEVIN STREET, DUBLIN 8

INSTITIÚID TEICNEOLAÍOCHTA BHAILE ÁTHA CLIATH, SRÁID CAOIMHÍN, BÁC 8

Fulltime Course Prospectus 1993

Réamheolaire do Cúrsaí Lánaimsearacha

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OIFIGEACH TEANGABHÁLA DÉANTÚSAÍOCHTA / INDUSTRIAL LIAISON OFFICER:
Peter F. Kavanagh BSc PhD

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CLÁR

RÉAMHRÁ

Your Guidance Counsellor will no doubt have advised you during the past year or so as to where your abilities lie and in which career direction your aptitudes point. You may now, in consultation with your parents, be thinking of entering College to prepare for a career.

This Prospectus will give you an introduction to the wholetime courses on offer in the Dublin Institute of Technology, Kevin Street. It gives guidelines on the application and selection procedures, entrance requirements and the points required for entry to the various courses and a short summary of the course curricula and career prospects on graduating.

Deciding where and how to spend the next two, three or four years of your life is a difficult task, let alone a daunting one.

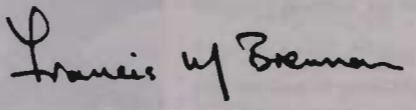
When you enter Higher Education, you'll want to be as sure as you can that your chosen course is a good one and that it interests you. So, it is very important to familiarise yourself with details of all the courses which interest you and then to concentrate on those for which you think you are best suited. Having consulted with your Guidance Counsellor and your parents, you can then determine your order of preference. In the CAO/CAS application system, you will be able to change and/or replace at a later date the order of your course preferences in the light of your forthcoming school leaving certificate examinations.

Great care should be taken in completing your CAO/CAS application form. In this respect, it is advisable to refer to all relevant literature before making application.

We have, in this College, an established reputation for academic and professional excellence. A wide range of courses is offered, bringing together strong groups of staff in individual subject specialisms, who do all they can to help our students get the most out of their studies.

We will be very pleased to welcome you to our College in September if your chosen career should so determine. If you need any further information, please do not hesitate to contact us.

Guím rath ort i gcibé gColáiste a théann tú leis is i gcibé ghairm a ghlacann tú leis.



F.M. Brennan,
Principal.


AIB

BEATHA AN SCOLÁIRE

Dublin City — Our Campus / 'Sé Cathair Átha Cliath Campas na hInstitiúide

There are over 9,000 full-time students attending the 72 courses provided by the Dublin Institute of Technology. With the formal establishment of the Institute in 1978, when the 6 Colleges united under a single Governing Body, Dublin City became the DIT campus. The DIT at Kevin Street caters for 2,500 full-time students on 15 courses with 34 final year options. A further 2,400 students are engaged in part-time, day-release and evening courses.

The Colleges of the DIT are all located near the city centre, with 3 on each side of the river Liffey (see map), and are well served by the improving services of Dublin Bus. Many students prefer to find accommodation in the suburbs and can commute easily using the Dublin Area Rapid Transit (DART) which is an electrified railway network.

Sports enthusiasts can actively participate in a wide variety of activities, both indoor and outdoor, throughout the year and for the observer there is always a Sunday afternoon in Croke Park, or the excitement of a soccer or rugby international in Lansdowne Road.

Dublin, with a third-level population of over 40,000 full-time students, is a lively and exciting city with excellent services and amenities to make your time as a student 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 and cinemas are just some of the attractions of Dublin.

Student Counselling Service / Seirbhís Comhairleartha

A professional counselling service is available to students in the College. The staff involved in providing this service are Susan Lindsay, full time counsellor, Anne McGuirk and Linda Mackin, both part-time student counsellors.

The student counsellors are happy to see students about any matter that might be giving rise to concern, such as personal, social, academic, financial etc. You don't need to have enormous problems before an appointment is made. If you are concerned or worried then it will help just to talk things over with someone who will offer a sympathetic ear and who will be able to help you develop more effective coping strategies.

The student counsellors also provide practical help to any student who wishes to improve his or her study skills and examination techniques.

The student counsellors can be contacted every Wednesday and Thursday in the College in Room 58, ext. 335 from 10.30 to 5pm. Appointments can be made by phoning 611134 on Monday or Tuesday, or 727177 ext. 366 on Friday (14.00 – 17.00).

Student Services Council / Comhairle Seirbhís na Mac-léinn

The Student Services Council, of which representatives of the Students' Union are members, is responsible for overseeing the distribution and expenditure of the Student Services Fund. The Fund is used to finance the activities of Students' Unions and Clubs and Societies. The work of the Council is administered by the Student Services Officer.

The Students' Union, DIT Kevin Street / Aontas na Mac-léinn

The Students' Union is a representative and service organisation for students in the College. All students are full members of the Students' Union and

as such, are entitled to use the facilities and avail of all services provided by it.

The Union is funded by the CDVEC on a per capita basis. It is directed by an executive committee, which is elected each year. The executive committee consists of seven members; two full-time officers, the President and Deputy President, and 5 part-time officers.

The Union's main purpose is to represent the views and interests of students at every level of the Dublin Institute of Technology structure. Each Students' Union president is a member of his own College Council. One president sits on the Institute's Governing Body and one on the CDVEC.

Within the College the Students' Union can assist and advise on academic problems which a student or group of students may have.

The other main area of work for the Students' Union is the provision of services. These include information, help and assistance on a vast range of topics which include virtually any problem of an academic, financial or personal nature. The Deputy President is a full-time welfare officer and receives training in many of the areas in which he/she may be asked to help or advise on.

Other areas in which the Union can help include legal difficulties, travel, accommodation, tenants rights, grants and scholarships, social welfare and health entitlements, bank loans and overdrafts, summer holiday employment and graduate employment.

The Union also provides other services of a more direct nature. The Students' Union shop sells stationery and course related supplies at a heavily subsidised rate. It maintains a recreational area, and also provides a subsidised photocopying service. The invaluable student identity card (or USIT card) is available from the Students' Union office.

The Students' Union provides entertainments in the College every week. Every Tuesday a lunchtime gig is organised featuring many of the up and coming bands in Ireland. Musical nights are arranged for Wednesdays and film shows on Thursday. A range of other social and celebration functions are held at the appropriate time each year.

An Accommodation List is compiled by the Students' Union in the Dublin Institute of Technology every Summer. It contains details of over 600 flats and lodgings situated near the Colleges. If you wish to obtain a copy, please 'phone the Students' Union.

College Clubs and Societies, DIT Kevin Street / Cumainn agus Caidraimh an Choláiste

There are fifteen societies and over thirty sports clubs in the College. These are funded by the Students' Union and membership is available to every student in the College.

Freshers' Day during October is the best opportunity to see what each club or society has to offer. On Freshers' Day each organisation presents an information stand in the Gleeson Hall in an attempt to attract new members. All clubs and societies can also be contacted through the Students' Union officer.

Sports Clubs / Cumainn Spóirt:

Badminton
Basketball
Board Sailing
Chess
Cross Country
Darts
Gaelic Football
Handball
Hurling
Judo
Karate
Kayak Club
Mixed Hockey
Mountaineering

Orienteering
Rugby
Sailing
Soccer
Sub Aqua
Swimming
Table Tennis
Tae-Kwon-Do
Tennis
Track & Field
Volleyball
Water Safety
Yoga

Societies / Caidraimh

Bakery
Christian Union
Computer
Drama
Engineering
Green Alliance
Home Brew
Iota (Cumann Gaelach)
Music
Nutrition
Photographic
Scientific
Social & Cultural
Technician
Women's Group

Careers Advisory Service / Seirbhís Ghairm Treorach

It is not unnatural for students just commencing a three or four year programme of study, to feel that matters concerning their post-graduate career will be of little concern for some years to come. In some respects this is true. There are, however, certain choices which students will have already made such as the school subjects they have studied, the third level courses they have applied for — and others which they will make at intervals over the next few years which have a bearing on the direction of their future career. The Careers Advisory Service can be helpful to the student in dealing with these choices.

In essence the Service provides information, advice and placement assistance. The placement activity is primarily directed towards the needs of final year students and students seeking career oriented summer employment in their penultimate year. The service to new students is largely one of advice and information.

The courses of academic study which students enter will develop their skills, their base of expertise and their personal qualities in a way suitable to the needs of employers and of the community at large. However, employers who recruit staff from the pool of new third level graduates look for additional indicators of suitability. It is prudent, therefore, for the new student to consider how leisure and vacation time may be best used to amplify the educational and training content of his or her course of study. The staff of the Careers Advisory Service can assist in this regard and in other aspects of career preparation.

The office is located in Rooms 58 and 59 on the ground floor.

For Careers in Applied Sciences, Health Sciences, Food Science and Computing / Do Ghairmeacha san Eolaíocht Fheidhmeach, Gar-Leighis, Biaeolaíocht agus Ríomhaireacht:

Dr. D.C. Hickey
Tel: 757541 ext. 336

For Careers in Engineering / Do Ghairmeacha san Innealtóireacht:

Mr. C. Bruce
Tel: 757541 ext. 335

Chaplains / Séiplíneacha

The Chaplains form an integral part of life in the College. Our work is primarily pastoral care and the building

up of a sense of community among students and staff.

One of our overall aims is to encourage the integration of personal, social and spiritual development with academic effort and achievement. The range of activities which has developed around the chaplaincy witness to this aim. There is the College Folk Group which adds so much to our liturgical events, especially in Lent and Advent. The Social Action group have a strong outreach programme to the local community in which students have the opportunity to get involved in caring for the elderly, the homeless or children from families who are in need of special care. Opportunities for involvement are many and varied, e.g. the St. Vincent de Paul Society; the Amnesty International Group, the Interdenominational Group and the Ecology Group as well as many other daily and weekly events throughout the College year.

The student retreat is another important highlight in the chaplaincy calendar. However, over and above all of these organised activities, we see our role as one of accompaniment. For the few years that a student spends in DIT Kevin Street, we offer a safe haven for questions and a strong challenge to grow and develop as a human being. We are here to listen and to offer support.

We are easily contacted in our offices on the second floor, Room 249 (close to the corridor between the old and the new buildings). You are welcome to call at anytime.

Catholic:

Fr. Michael Martin OFM,
Adam and Eve's, Merchant's Quay,
Dublin 8. Tel: 771128.

Sr. Margaret Buckley SCR,
50 Laurleen Estate, Stillorgan,
Co. Dublin. Tel: 283 5225.

Church of Ireland:

Rev. John Crawford,
The Rectory, 248 South Circular Rd.,
Dublin 8. Tel: 542274.

Islamic Community:

Imam Yahya M. Al-Hussein,
163 South Circular Rd.,
Dublin 8. Tel: 533242.

Jewish Community:

Very Rev. Ephraim Mirvis,
Herzog House, Zion Road,
Dublin 6. Tel: 967351.

Library Facilities / Áiseanna Leabharlainne

All the Colleges in the DIT have their own Libraries, and between them they currently have a joint collection of approximately 100,000 items and 1,000 current journal titles. Membership of the Library is available to all students in their respective Colleges. Close links are maintained between the Libraries to facilitate interlending, and to open their specialist collections to students in all of the DIT Colleges.

Generally your Library will provide study places, standard texts, course materials and relevant monographs. Material in other formats (for example, video, slides, microfilms, maps, as well as varied information systems and search tools) may be available, both to support the courses offered and to encourage study and research. Hours of opening will vary from site to site, and throughout the year. Photocopying services are provided. All the Libraries operate electronic book security systems to safeguard their collections. Your Library will be a valuable resource to you during your years at College.

LOCATION OF DIT COLLEGES AND ADMINISTRATIVE OFFICES

SUÍOMH NA gCOLÁISTÍ IS OIFIGÍ FEIDHMIÚCHÁIN

1. DIT Bolton Street,
   Dublin 1.
   Telephone 727177
2. DIT Kevin Street,
   Dublin 8.
   Telephone 757541
3. Dublin College of Catering,
   Cathal Brugha Street,
   Dublin 1.
   Telephone 747886
4. College of Commerce,
   Rathmines,
   Dublin 6.
   Telephone 970666
5. College of Marketing & Design,
   40-45 Mountjoy Square,
   Dublin 1.
   Telephone 363000

6a. College of Music,
   Chatham Row,
   Dublin 2.
   Telephone 778903
   and
   b. Adelaide Road,
   Dublin 2.
   Telephone 784564

7. Administrative Offices,
   Dublin Institute of Technology,
   14 Upper Mount Street,
   Dublin 2.
   Telephone 766584/611133

DUBLIN CITY IS OUR CAMPUS

'SÉ CATHAIR ÁTHA CLIATH CAMPAS NA hINSTITIÚIDE

AN DEARCA EORPACH

The College is involved in a number of European Networks within the Commission of the European Communities ERASMUS Programme. These Networks involve 11 of the 12 countries of the European Community and Sweden. Students from colleges in these countries participating in the Network spend from 2 months to a whole academic year attending courses in the DIT Kevin Street.

Provision is made for an equal participation by students from DIT Kevin Street to undertake suitable elements of the programmes offered in the European colleges participating in our Networks.

The College also participates in the TEMPUS Programme of the Commission of the European Communities which has been established to assist Poland, Czechoslovakia and Hungary.

The College is a member of the Dublin UETP and participates in the COMETT Programme of the Commission of the European Communities. An increasing number of students travel to Europe for a one-year industrial placement after completing three years of their programme within DIT Kevin Street.

For 25 years, DIT Kevin Street has taught French, German or Spanish as a subject on all full-time technological courses. This ethos and tradition has greatly facilitated our students' integration into the European Community.

IRELAND, MEMBER OF THE EUROPEAN COMMUNITY

ÉIRE SAN gCOMHPHOBAL EORPACH

The College is fully committed to participating in the Research Programmes of the Commission of European Communities and in the Comett, Erasmus, Tempus and Lingua Programmes. The College is always interested to hear from UETPs, Universities, Polytechnics and Technical Colleges in other Member States who would like to investigate possible collaboration in these programmes.

DEGREE COURSES AT DIT KEVIN STREET ON CAO/CAS DEGREE LIST

CÚRSAÍ CÉIME

Listed below are the degree courses currently on offer at the Dublin Institute of Technology Kevin Street which are included on the CAO/CAS Degree List. Graduates of these courses are eligible for the award of DIT Diplomas and also for degree awards of the University of Dublin (Trinity College).

CAO/CAS Code	College Code	Course Description	Course Duration (years)	Minimum Points for Entry 1992	Course Fee for 1992/93
FT221	SEE	Honours Diploma in Electrical/Electronic Engineering			
		BSc(Eng)		273	IR£1,070
		Specialisations			
		Electrical Power	4		
		Control Systems	4		
		Electronics, Communications and Computers	4		
FT222	WSAD	Diploma in Applied Sciences			
		BSc(Applied Sciences)		340	IR£860
		Options			
		Chemistry and Physics	4		
		Chemistry and Mathematics	4		
		Mathematics and Physics	4		
		Mathematics and Computer Science	4		
		Computer Science and Physics	4		
		Food Science and Food Technology	4½		
FT223	WBD	Diploma in Human Nutrition and Dietetics			
		BSc(Human Nutrition and Dietetics)	4½	430	IR£1,330

For Degree Programme in Medical Laboratory Sciences please see page 18.

HONOURS DIPLOMA IN ELECTRICAL/ELECTRONIC ENGINEERING BSc(Eng)
(Three Specialist Options)

CAO CODE: FT 221

COLLEGE CODE: SEE

DURATION:

Four years wholetime

DESCRIPTION OF COURSE:

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:

Electrical Power
Control Systems
Communication Systems

The content of the course includes lectures, tutorials and, where appropriate, practical and laboratory work. The first two years of the course are common to all students. At the beginning of the third year students commence their specialist option which extends over the final two years. It is intended that there should be approximately equal numbers of students in each of the three options. In the first instance, option choice will be by student preference; however, priority will be given on the basis of performance in the second year Summer examinations.

MINIMUM ENTRY REQUIREMENTS:

(a) Passes in six subjects in the Irish Leaving Certificate, including English, with Grade C3 or higher in higher level papers in Mathematics and one of Physics, Chemistry, Physics and Chemistry, Applied Mathematics or Engineering.

or

(b) Pass in three subjects at A-Level in the General Certificate of Education.

or

(c) Such qualification as the College may deem equivalent.

NOTE: It must be emphasised that the above are the minimum requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

Points for Subjects with Weighting:

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.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS,
Tower House, Eglinton Street,
Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Mathematics, Applied Mechanics, Physics, Properties of Materials, Electricity, Electronic Systems, Engineering Computing, Language (French/German).

SECOND YEAR:

Mathematics, Physics, Field and Circuit Theory, Signal and System Theory, Electronics, Computer Systems, Electrical Machines, Measurements and Instrumentation, Business and Management Studies, Language (French/German).

THIRD YEAR:

Subjects common to all Options:
Mathematics, Business and Management Studies, Language (French/German).

Electrical Power Option:
Circuit Theory, Field Theory, Applied Thermodynamics, Electrical Power, Control Systems and Instrumentation, Electronics.

Control Option:
Circuit Theory, Field Theory, Electronics, Signal and System Theory, Control Systems I, Control Systems II.

Communications Option:
Circuit Theory, Field Theory, Signal

and System Theory, Electronics, Computer Systems, Communications Engineering.

FOURTH YEAR:

Subjects common to all Options:
Mathematics, Business and Management Studies.

Electrical Power Option:
Circuit Theory, Electronics, Electrical Power, Control Systems and Instrumentation, Project.

Control Option:
Circuit Theory, Electronics, Control Systems I, Control Systems II, Project.

Communications Option:
Signal and System Theory, Electromagnetic Field Theory, Electronics, Computer Engineering, Communications Engineering, Project.

AWARDS:

Graduates of this course are eligible for the following awards:

Diploma in Electrical/Electronic Engineering (Dublin Institute of Technology) with grades of Pass, Second Class Honours and First Class Honours as appropriate

and

BSc(Eng) (University of Dublin) with the same honours classification.

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, automatic control and electrical power.

FOR FURTHER INFORMATION:

Dr. J.C. Fisher, Head,
Department of Control Systems and Electrical Engineering.
Telephone: 757541 ext. 243

CAO CODE: FT 222

COLLEGE CODE: WSAD

DURATION:

Four years wholetime for all programmes with the exception of **Food Science and Food Technology** which is four and a half years.

DESCRIPTION OF COURSE:

Six four-year wholetime programmes are offered for the Diploma in Applied Sciences. This course has been designed to cover those areas of Chemistry, Mathematics, Physics, Computer Science and Food Science and Technology which will be of the widest application in Industry. This course in combined applied sciences 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 Diploma will be awarded in terms of one of six possible scientific and technological options studied for the final year of the course as follows:

Chemistry and Physics
Chemistry and Mathematics
Mathematics and Physics
Mathematics and Computer Science
Computer Science and Physics
Food Science and Food Technology

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.

MINIMUM ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in six subjects including Mathematics and English, 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

(b) such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

The number taking Computer Science in Year 1 will be limited to fifty. If the demand exceeds fifty, the order of offers from the CAO will determine priority.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS application form to:

CAO/CAS,
Tower House,
Eglinton Street, Galway.

CLOSING DATE: 1st February.

COURSE OF STUDY:

FIRST YEAR:

Students will study five of the six subjects listed below. Students may choose between Chemistry and Computer Science.

Chemistry – Inorganic Chemistry, Physical Chemistry, Organic Chemistry.

Mathematics – Calculus and Linear Algebra, Computing, Mechanics.

Physics – Electricity and Magnetism, Thermal and Mechanical Properties of Matter, Mechanics, Modern Physics, Geometrical Optics, Vibrations and Waves, Physical Optics.

Computer Science – Introduction to Computer Science, Programming.

Management Studies.

Language – French or German.

SECOND YEAR:

In the second year students take one of the following programmes and continue their study of Management Studies and Language:

Chemistry, Physics and Ancillary Mathematics
Chemistry and Mathematics
Mathematics and Physics
Mathematics and Computer Science
Computer Science, Physics and Ancillary Mathematics

Chemistry – Analytical Chemistry, Physical Chemistry, Organic Chemistry, Inorganic Chemistry, Industrial Chemistry.

Mathematics – Linear Algebra, Numerical Analysis, Statistics 1 & 2, Analysis, Differential Equations.

Physics – Circuit Theory, Physical Electronics, Electromagnetic Theory, Mechanics, Quantum Physics and Relativity, Wave Theory, Geometrical and Physical Optics, Thermodynamics, Kinetic Theory, Workshop Practice.

Computer Science – Advanced Programming, Algorithms and Data Structures, Operating Systems, Computer Architecture and Assembly Language Programming.

Ancillary Mathematics – (For those students who have not taken the Mathematics option).

Management Studies.

Language – French or German.

THIRD YEAR:

Initially the number taking Food Science and Technology in Year 3 may be limited. The order of priority will be established by the class ranking at the Summer Examinations at the end of Year 2.

In the third year, students take one of the following programmes and continue their study of Management Studies and Language:

Chemistry, Physics and Ancillary Mathematics
Chemistry and Mathematics
Mathematics and Physics
Mathematics and Computer Science
Computer Science, Physics and Ancillary Mathematics
Food Science and Technology and Chemistry

Chemistry – Applied Physical Chemistry, Analytical Chemistry, Applied Inorganic Chemistry, Applied Organic Chemistry. Unit operations: Solvent extraction, Distillation, Drying.

Mathematics – Mathematical Methods of Classical Mechanics, Mathematical Methods for Quantum Science, Numerical Analysis, Complex Analysis, Algebraic Structures and Metric and Topological Spaces.

Physics – Atomic and Nuclear Physics, Solid State Physics, Electromagnetism and Applied Optics, Electronics, Microprocessors, Topics from Applied Biophysics.

Computer Science – Data Transmission, Information Systems, Systems Programming, Systems Analysis and Design.

Food Science and Technology – Biochemistry, Biology, Microbiology.

Ancillary Mathematics – (For those students who have not taken the Mathematics option).

Management Studies.

Language – French or German.

FOURTH YEAR:

Students take one of the following programmes in the fourth year:

Chemistry and Physics
Chemistry and Mathematics
Mathematics and Physics
Mathematics and Computer Science
Computer Science and Physics
Food Science and Food Technology

Chemistry – Applied Organic Chemistry, Applied Physical Chemistry, Applied Inorganic Chemistry. Unit operations: Reactor Design, Filtration Size Reduction, Heat and Mass Transfer.

Mathematics – Ordinary Differential Equations, Boundary Value Problems, Operator Theory for Quantum Science, Linear Programming, Applied Mathematics for the Physical Sciences, Mathematical Statistics or Applied Statistics/O.R. and Numerical Analysis. Students take the first four subjects and one of the last four options. Only one of the subjects Mathematical Statistics and Applied Statistics will be available in any one year.

Physics – Solid State Physics, Thermodynamics and Statistical Physics, Electrical and Electronic Instrumentation, Modern Applied Optics, Radiation and Nuclear Physics, Acoustics, Lasers, Optoelectronics and Applied Holography, Topics from Applied Biophysics.
French or German is offered as *one* of the options on all programmes except Food Science and Food Technology.

Students take the first four subjects and two of the last four subjects. All combinations of the latter will not necessarily be offered in any given year.

Computer Science – Digital Electronics, OR and Simulation, Computational Theory, Formal Specifications, Data Transmission, Artificial Intelligence, Graphics.

Food Science and Food Technology – Food Chemistry, Processing and Distribution of Food, Food Microbiology, Nutrition, Applied Nutrition.

Project – all students will undertake and complete a Project.

AWARDS:

Graduates of this course are eligible for the following awards:

Diploma in Applied Sciences (Dublin Institute of Technology) with grades of Pass, Second Class Honours or First Class Honours as appropriate

and

BSc (Applied Sciences) (University of Dublin) with the same honours classification.

The Institute of Physics has recognised the qualifications of graduates who have taken the Mathematics and Physics or the Chemistry and Physics programmes as satisfying the academic requirements for Corporate Membership of the Institute, the former being allocated to Schedule A under the Institute Schedule of Recognised Qualifications and the latter to Schedule B(1).

CAREER OPPORTUNITIES:

The main thrust of the course is towards industrial and commercial applications of the various sciences. The graduates of the course are uniquely qualified for employment in a wide range of industries and also for postgraduate research. In the past, graduates have gone on to postgraduate work here in Ireland and abroad; in France, Germany, Canada and the United States. Some have gone into the food and computer industries while others have gone into the public service, hospitals, electricity supply and telecommunications. Some have embarked on careers in education.

FOR FURTHER INFORMATION:

Dr. D.C. Hickey,
Department of Physics.
Telephone: 757541 ext. 336

CAO CODE: FT 223

COLLEGE CODE: WBD

DURATION:

Four and a half years wholetime

DESCRIPTION OF COURSE:

This Degree Course is run jointly by the Dublin Institute of Technology (College of Technology, 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. At present there are insufficient training places available in Ireland and it may be necessary that some students travel to Britain for this component of the course. Students are responsible for their own upkeep during these training periods since they are unpaid.

MINIMUM ENTRY REQUIREMENTS:

(a) 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 at either level

or

(b) such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the very large numbers seeking entry a minimum of Grade C3 or higher on five higher level papers will be required in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS application form to:

CAO/CAS,
Tower House,
Eglinton Street,
Galway.

CLOSING DATE: 1st February

COURSE OF STUDY:

FIRST YEAR:

Mathematics, Physics, Chemistry, Biology, Food Science, Communication Studies, French.

SECOND YEAR:

Biochemistry, Physiology, Nutrition, Dietetics, Medicine, Catering Administration, Microbiology, Statistics and Computation, Communication Studies, French.

THIRD YEAR:

Biochemistry, Nutrition, Dietetics, Medicine, Clinical Studies, Food Science, Microbiology, Computer Science, Communication Studies and Management Studies, French.

FOURTH YEAR:

Nutrition, Dietetics, Communication Studies, Management Studies and a Project.

AWARDS:

Graduates are eligible for the following awards:

Diploma in Human Nutrition and Dietetics (Dublin Institute of Technology) with grades of Pass, Second Class Honours and First Class Honours as appropriate.

and

BSc (Human Nutrition and Dietetics) (University of Dublin) with the same honours classification.

CAREER OPPORTUNITIES:

Nutrition as 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 slowly 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.

FOR FURTHER INFORMATION:

Ms. Mary Moloney, DipDiet MSc MINDI
Department of Biological Sciences.
Telephone: 757541 ext. 314

HEALTH SCIENCES DEGREE AND PROFESSIONAL DIPLOMA COURSES ON CAO/CAS CERTIFICATE/DIPLOMA LIST

CÚRSAÍ CÉIME IS PROIFISIÚNTA SAN GAR-LEIGHIS

DIT Code	College Code	Course Description	Course Duration (years)	Minimum Points for Entry 1992	Course Fee for 1992/93
		*Degree Programmes in Medical Laboratory Sciences	5		
DT 214	WML	Certificate in Medical Laboratory Sciences	3	360	IR£565
DT 215	WBS	Diploma in Biomedical Sciences BSc(Applied Sciences)			IR£860
		Major Options			
		Cellular Pathology	2		
		Clinical Chemistry	2		
		Clinical Immunology	2		
		Haematology/Blood Transfusion Science	2		
		Medical Microbiology	2		
DT 272	WSO	Diploma in Optometry (Ophthalmic Optics)	4	470	IR£860

*Application should be made for Certificate in Medical Laboratory Sciences: CAO/CAS Certificate/Diploma List.

DEGREE PROGRAMMES IN MEDICAL LABORATORY SCIENCES

In 1986 the Irish Department of Education authorised the College to proceed with the establishment of an honours degree programme in Medical Laboratory Sciences. The College offers a five year integrated course leading to a Diploma in Biomedical Sciences (DIT) and a BSc(Applied Sciences) from the University of Dublin, both with honours classification. Students qualify for the award of Certificate in Medical Laboratory Sciences after three years of the programme.

This is the only degree programme in the Republic of Ireland which is accredited by the Institute of Medical Laboratory Sciences.

Graduates are eligible to apply for Associateship of the Institute of Medical Laboratory Sciences (AIMLS) immediately on graduation. They are also exempt from the Part I Fellowship Examination of the Institute of Medical Laboratory Sciences.

CERTIFICATE IN MEDICAL LABORATORY SCIENCES

CAS CODE: DT 214

COLLEGE CODE: WML

DURATION:

Three years wholetime, including a one year laboratory placement.

DESCRIPTION OF COURSE:

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.

ENTRANCE REQUIREMENTS:

(a) 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

(b) Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum requirements for the course. Because of the large numbers seeking entry to the courses in Medical Laboratory Sciences a much higher standard is necessary in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS,
Tower House, Eglinton Street,
Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Chemistry, Biology, Physics, Mathematics, French/German.

SECOND YEAR:

Biochemistry, Physiology/Immunology, Applied Physics/Measurement and Instrumentation, Statistics/Computer Science, Medical Laboratory Science, Language (French/German).

THIRD YEAR:

Hospital inservice training.

AWARD:

Graduates of this course are eligible for the following award:

Certificate in Medical Laboratory Sciences (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

FURTHER STUDY:

Students who obtain the Certificate in Medical Laboratory Sciences are eligible to proceed to the two year full-time course leading to the **Diploma in Biomedical Sciences** (DIT).

CAREER OPPORTUNITIES:

The Certificate is the required qualification for basic grade technician posts in the Medical Laboratory Services. Other areas of employment include Veterinary and Medical Research Laboratories. Career opportunities also exist for Medical Laboratory Scientists in developed and developing countries.

FOR FURTHER INFORMATION:

Mr. Colm P. O'Rourke DipMedLabSc FIMLS,
Department of Biological Sciences.
Telephone: 757541 ext. 361

DIPLOMA IN BIOMEDICAL SCIENCES BSc(Applied Sciences) (Five Programmes)

DIT CODE: DT 215

COLLEGE CODE: WBS

DURATION:

Two years wholetime

DESCRIPTION OF COURSE:

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 Regional Technical Colleges in Cork and Galway. The course is an integrated, advanced programme of study in Biological, Biomedical and Analytical Sciences and Management Studies. In the second year of the course, students choose an option in Medical Laboratory Sciences as their major subject and are also required to undertake and complete a research project.

The specialist programmes are:

Cellular Pathology
Clinical Chemistry
Clinical Immunology
Haematology/Blood Transfusion Science
Medical Microbiology

ENTRANCE 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 College may deem equivalent.

APPLICATION PROCEDURE:

Applicants should apply to:

The Registration Section,
Dublin Institute of Technology,
Kevin Street,
Dublin 8.

CLOSING DATE:

22nd June.

COURSE OF STUDY:

FIRST YEAR:

Cell Biology/Molecular Genetics, Applied Immunology, Medical Sciences (Pathology, Epidemiology, Pharmacology), Biochemistry, Analytical Sciences/Measurement and Instrumentation, Management Studies.

SECOND YEAR:

Analytical Science, Medical Sciences (Biological Basis of Disease).

Specialist Option: the student selects one of the following: – Cellular Pathology, Clinical Chemistry, Clinical Immunology, Haematology/Blood Transfusion Science, Medical Microbiology.

All students undertake a project.

FURTHER STUDY:

The Diploma in Biomedical Sciences is a requirement for entry to the Fellowship Courses of the Institute of Medical Laboratory Sciences.

AWARDS:

Graduates of this course are eligible for the following awards:

Diploma in Biomedical Sciences (Dublin Institute of Technology) with grades of Pass, Second Class Honours or First Class Honours as appropriate

and

BSc (Applied Sciences) from the University of Dublin with the same honours classification.

The Diploma 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 Diploma in 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 Community, the USA, Australia, the Middle East and Africa. Other career opportunities occur in Medical Research, Veterinary Medicine, Diagnostics marketing, Biotechnology and Pharmaceuticals.

FOR FURTHER INFORMATION:

Mr. J. Vaughan DipMedLabSc FIMLS
Department of Biological Sciences,
Telephone 757541 ext. 361

DIPLOMA IN OPTOMETRY (OPHTHALMIC OPTICS)

CAS CODE: DT 272

COLLEGE CODE: WSO

DURATION:

Four years wholetime

DESCRIPTION OF COURSE:

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. Holders of the Diploma must also satisfy the Association of Optometrists, Ireland, on 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 the College for the completion of the final year, students are assigned a Research Project which helps to relate some of the theoretical aspects of the course to the clinical skills required in optometric practice.

MINIMUM ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in six subjects with Grade C3 or higher in at least two subjects on higher level papers; subjects must include Mathematics and English at either higher or lower level.

or

(b) Such qualifications as the College may deem equivalent.

Note 1: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

Note 2: In the case of persons seeking admission to the course in 1994, requirement (a) above will be replaced by: Leaving Certificate in six subjects with Grade C in at least two higher level papers, at least one of which must be selected from the following: Physics, Biology, Chemistry, Physics and Chemistry. Subjects presented must include both English and Mathematics (both at Grade B3 or better at ordinary level or Grade D3 or better at higher level).

APPLICATION PROCEDURE:

Applicants should apply on the CAS part of the CAO/CAS combined application form to:

CAO/CAS,
Tower House, Eglinton Street,
Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Physics, Biology, Mathematics and Computing, Chemistry, Introduction to Optometry, Language, Business Studies.

SECOND YEAR:

Visual Optics, Geometrical and Physical Optics, Optical Dispensing, Anatomy and Physiology, Biochemistry, Statistics and Computer Applications, Language.

THIRD YEAR:

Optometric and Optical Dispensing, Contact Lenses and Optometric Instruments, Physiology of Vision and Illumination Optics, Abnormal Systemic and Ocular Conditions, Physiology of Vision, Law and Ethics, Binocular Vision, Language, Business 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, Language, Business Studies.

AWARDS:

Graduates of the Course are eligible for the following awards:

Diploma in Optometry (Dublin Institute of Technology), with grades

of Pass, Second Class Honours or First Class Honours as appropriate.

Graduates who have passed the examinations of the Association of Optometrists, Ireland, may, if elected to Membership, be awarded the:

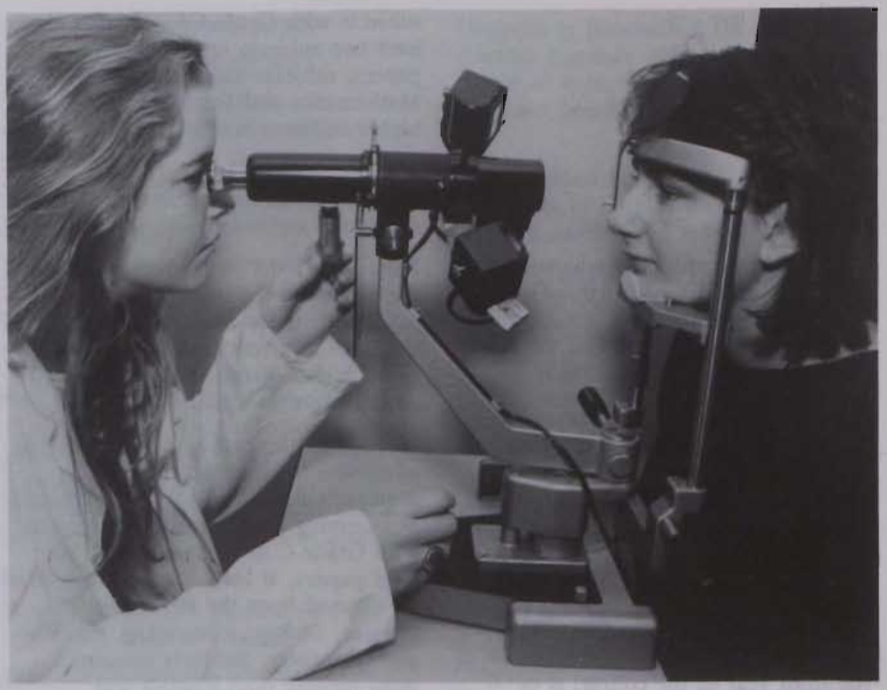
Fellowship of the Association of Optometrists, Ireland (FAOI).

CAREER OPPORTUNITIES:

Most optometrists are in individual private practice, in partnership with colleagues, or employed in the larger practices. Their primary purpose 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).

FOR FURTHER INFORMATION:

Dr. P.A. Davison, MSc PhD FBCO
Optometry Course Director,
Department of Physics.
Telephone 757541 ext. 235



CÚRSAÍ THEASTAIS IS DHIOPLÓMA SAN CAO/CAS

DIT Code	College Code	Course Description	Course Duration (years)	Minimum Points for Entry 1992	Course Fee for 1992/93
DT 200	WBT	Diploma in Bakery Production and Management	3	215	IR£565
DT 231	WEET	Technician Engineering Diploma/Electrical Engineering	3	270	IR£565
DT 255	WLBS	Diploma in Languages and Business Studies	3	500	IR£565
DT 266	WMT	Diploma in Computer Science	3	340	IR£565
DT 273	WAS	Technician Diploma in Applied Science *Options* Biology; Chemistry; Physics	3	315	IR£565
DT 279	WASPH	Technician Diploma in Photography	3	405	IR£565
DT 287	WRTT	Technician Engineering Diploma/Tele-communications and Electronics	3	320	IR£565
		and			
	WRS	Technician Diploma in Electronic Engineering	3		IR£565
DT 289	WRCE	Technician Certificate in Electronics	2	240	IR£540
DT 244	ESED	Certificate in Electrical & Electronic Draughting	1	215	IR£505

DIPLOMA IN BAKERY PRODUCTION AND MANAGEMENT

CAS CODE: DT 200

COLLEGE CODE: WBT

DURATION:

Three years wholetime

DESCRIPTION OF COURSE:

The Diploma in Bakery Production and Management is a qualification designed to serve the different sections of the Baking, Confectionery, Biscuit, Cereal, Chocolate and related food processing industries.

The course is structured to give a sound and comprehensive preparation for a career in industry for those students wishing to attain positions of responsibility and for those wishing to open and operate their own business. The course provides a thorough grounding in the technology and practice of baking and related food product production. All aspects of modern food manufacturing methods are covered including the sourcing, handling, storage and control of all raw materials together with an extensive programme of raw materials testing.

Subjects including hygiene and microbiology, manufacturing plant and equipment, modern production and quality control systems covered in detail. The financial aspects of operating a food manufacturing business are also covered, including financial control, marketing, business administration and human resources. Students are required to study the German language. Final year students are required to take the City and Guilds of London Institute Examinations in addition to the Dublin Institute of Technology Diploma Examinations.

ENTRANCE REQUIREMENTS:

(a) Irish Leaving Certificate in five subjects, including Mathematics and English at either level. It is also advisable that applicants should have obtained some work experience in a bakery.

or

(b) City and Guilds Advanced Craft Certificate (No. 120 Part 2)

or

(c) Such qualifications as the College may deem equivalent.

Students holding craft certificates will be exempted from the practical bakery instruction portion of the course, and will be eligible to apply for a reduction of the course fee.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS,
Tower House,
Eglinton Street, Galway.

CLOSING DATE: 1st February.

COURSE OF STUDY:

FIRST YEAR:

Applied Science, Bakery Technology, Industrial Studies, Bread Production (Methods and Techniques), Flour Confectionery (Methods and Techniques), Cake Decoration, German.

SECOND YEAR:

Applied Science, Bakery Technology, Industrial Studies, Bread Production (Methods and Techniques), Flour Confectionery (Production Methods and Techniques), Advanced Cake Decoration, German.

THIRD YEAR:

Applied Science, Bakery Technology, Microbiology and Hygiene, Marketing, Business Administration and Financial Control, Computing, Bread Production (Methods and Techniques), Flour Confectionery (Production Methods and Techniques), Raw Materials Testing, Production Planning and Human Relations, Product Development, German.

AWARDS:

Graduates of this course are eligible for the following award:

Diploma in Bakery Production and Management (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

Students are required to take the following Examinations of the City and Guilds of London Institute:

120 – Bakery Certificate Parts 1 & 2
126 – Bakery Production Certificate
127 – Bakery and Food Management Certificate

CAREER OPPORTUNITIES:

Graduates of the course are to be found in all of the bakery and allied industries and include General Managers, Production Managers, Technical Representatives, Test Bakers, Bakery Technologists, Product Development Technicians and Bakery Supervisors.

FOR FURTHER INFORMATION:

Mr. Derek O'Brien NBDip FTC(CGLI),
Head,
National Bakery School,
DIT Kevin Street.
Telephone 757541 ext. 360

TECHNICIAN ENGINEERING DIPLOMA – ELECTRICAL ENGINEERING

CAS CODE: DT 231

COLLEGE CODE: WEET

DURATION:

Three years wholetime

DESCRIPTION OF COURSE:

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 Automatic Control Systems and Instrumentation. Graduates of this course with a Distinction grade in the Diploma are eligible to apply for entry to the third year of the Honours Diploma course in Electrical/Electronic Engineering (Ref: DT 221). The Diploma is recognised by the Engineering Council (London) and graduates are given exemption from the Council's Part I Examination.

ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in five subjects with Grade B3 or higher in ordinary level Mathematics. Subjects must also include English at either level.

or

(b) The Senior Trade Certificate of the Department of Education 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 will be an acceptable equivalent.

or

(c) Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS,
Tower House, Eglinton Street,
Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

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

SECOND YEAR:

Mathematics, Field and Circuit Theory, Electrical Power, Electronics, Control Systems and Instrumentation, Business Studies, French, German or Spanish.

THIRD YEAR:

Mathematics, Field and Circuit Theory, Electrical Power, Electronics, Control Systems and Instrumentation, Engineering Project, Business Studies, French, German or Spanish.

AWARD:

Graduates are eligible for the following award:

Technician Engineering Diploma – Electrical Engineering (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

As this is a broadly based course graduates take employment in a wide range of activities such as Electrical Supply, Instrumentation and Control, Computing and Consulting.

FOR FURTHER INFORMATION:

Mr. J.J. Farrell MSc CEng FIEI MIEE,
Assistant Head,
Department of Control Systems and Electrical Engineering.
Telephone: 757541 ext. 261

DIPLOMA IN LANGUAGES AND BUSINESS STUDIES

CAS CODE: DT 255

COLLEGE CODE: WLBS

DURATION:

Three years wholetime.

DESCRIPTION OF COURSE:

The content and the structure of this course are intended to provide students with a thorough training and competence in modern languages and in business studies to enable them to meet the requirements of the business world for highly-trained and adaptable personnel in the context of the greater mobility and harmonisation that is to be the hall-mark of the 1990's.

The course includes a mandatory six months' stay by the student in the country of his major language; during the stay abroad the student will research and prepare a business-based project, thus integrating the language and business components of the course.

ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in five subjects, including English and Mathematics with Grade C3 or higher on the Higher Level papers in French or German or Spanish.

or

(b) such qualification as the College may deem equivalent.

Note: Because of the large numbers seeking entry, a much higher standard is necessary, in practice, to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS,
Tower House,
Eglinton Street,
Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Six subjects:

Language Major: French or German or Spanish.
Language Minor: Italian or Russian or Portuguese.
Business Studies: Accounting and Finance, Office Administration and Management, Managerial Economics, Business Statistics.
European Studies.
English for Business.
Keyboard Skills.

SECOND YEAR:

Six Subjects:

Language Major: Continued from Year One.
Language Minor: Continued from Year One.
Business Studies: Management I, Marketing and Enterprise Development I, Business Law, Export Management.
European Studies.
English for Business.
Computer Applications.

THIRD YEAR:

Four Subjects:

Language Major: Continued from Year 2.
Language Minor: Continued from Year 2.
Business Studies: Two core subjects: European Law, Management II and *One* optional subject from Financial Management, Marketing and Enterprise Development II, Personnel Administration, Taxation.
Computer Applications.

Note: It may not be possible to offer all options – in languages and in business – every year.

AWARD:

Graduates of this course are eligible for the following award:

Diploma in Languages and Business Studies (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

The course is designed to prepare students to work as highly trained and adaptable personal assistants, executive or administrative assistants in business and industrial areas which have a European or international orientation requiring dynamic personnel who combine thorough language competence with a sound working knowledge of business practice.

FOR FURTHER INFORMATION:

Department of Languages and Industrial Studies.
Telephone 757541.

DIPLOMA IN COMPUTER SCIENCE

CAS CODE: DT 266

COLLEGE CODE: WMT

DURATION:

Three years wholetime

DESCRIPTION OF COURSE:

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.

ENTRANCE REQUIREMENTS:

(a) Irish Leaving Certificate in six subjects with Grade B3 or higher in Ordinary Level Mathematics, and with Grade C3 or higher in two subjects on Higher Level Papers; subjects must include Mathematics and English at either level.

or

(b) The Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a Science subject. Where endorsement subjects are offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education will be an acceptable equivalent.

or

(c) Attainment which the College regards as equivalent to those specified in (a) or (b) will be acceptable.

Note: It must be emphasised that the above are the minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary, in practice, to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS,
Tower House,
Eglinton Street,
Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Computer Programming and Computer Systems, Statistics and Business Mathematics, Mathematics, Physics, Business Studies, German, Keyboard Skills.

SECOND YEAR:

Computer Programming, Algorithms and Data Structures, Hardware and Operating Systems, Statistics, Mathematics, Numerical Methods, Business Studies, German.

THIRD YEAR:

Advanced Computer Programming, Microprocessors, Hardware and Data Transmission, Information Systems and Systems Analysis, Operations Research Techniques, Numerical Methods, Business Studies.

AWARD:

Graduates are eligible for the following award:

Diploma in Computer Science (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

The course is designed to train students for the positions of programmer or programmer/analyst in the commercial and technological areas. The course content is sufficiently wide to encourage upward mobility to more senior positions in the computer industry within a few years.

FOR FURTHER INFORMATION:

Dr. Brendan O'Shea,
Assistant Head,
Department of Mathematics, Statistics and Computer Science.
Telephone: 757541 ext 221.

CAS CODE: DT 273

COLLEGE CODE: WAS

DURATION:

Three years wholetime.

DESCRIPTION OF COURSE:

This course is designed to meet the requirements of those students seeking a training as Technicians for:

(a) Research and development in Industrial Laboratories.
(b) Scientific and Industrial Instrument Manufacturing Industries.
(c) The Food Processing Industries.
(d) Educational Laboratories.
(e) High Technology Industries.

After the first year this course offers three options:

Applied Biology,
Applied Chemistry,
Applied Physics.

An important element in the final year is the project, which is an applied laboratory based problem in the major field of study.

ENTRANCE REQUIREMENTS:

(a) Pass in English, Pass in Mathematics (or Applied Mathematics), Pass in three other subjects in the Leaving Certificate Examination

or

(b) The Senior Trade Certificate of the Department of Education 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 will be an acceptable equivalent.

or

(c) Attainment which the College regards as equivalent to those specified in (a) or (b) will be acceptable.

Note: It must be emphasised that the above are the minimum requirements for the course. Because of the large number seeking entry a higher standard is necessary in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS,
Tower House,
Eglinton Street,
Galway.

CLOSING DATE:

1st February.

COURSE OF STUDY:

FIRST YEAR:

Physics, Chemistry, Biology, Mathematics, Business Studies, Drawing Assignments, Technical French or Technical German or Irish.

SECOND YEAR:

Business Studies, French or German or Irish 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, Mathematics and Industrial Chemistry. (This option is limited to 20 students in Year 2 and Year 3).

Applied Physics Option:
Physics, Electronics, Circuit Theory, Mathematics, Instrumentation and Control Systems, Materials Science, Medical Physics, Photography, Acoustics and Engineering Practice.

Entry to one or more of the Options in Year 2 may be limited from time to time. Priority will be given to students according to their position of merit in the class at the Summer Examinations at the end of Year 1.

THIRD YEAR:

As in second year, Business Studies is common to each option.

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).

Entry to the Elective Subjects in the Biology Option in Year 3 will be limited. Priority of choice will be given to students according to their position of merit in the class at the Summer Examinations at the end of Year 2.

Applied Chemistry Option:
Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Industrial Chemistry.

Applied Physics Option:
Applied Physics, Materials Science, Electronics, Circuit Theory, Instrumentation and Control Theory, Mathematics, Engineering Practice.

AWARD:

Graduates of this course are eligible for the following award:

Technician Diploma in Applied Science (Option Specified) (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

Applied aspects of the sciences are the major theme in the three options. Consequently career opportunities are available to graduates in a wide range of production and service industries – hospitals, higher education, electronics, chemicals and pharmaceuticals, computers, food industry and others. Graduates of this course answer the need for greater technical literacy and competence in virtually all kinds of industry, where technological change is the order of the day. Graduates are eligible to apply for entry to the respective courses leading to Graduate qualifications and membership of Professional Institutes.

FOR FURTHER INFORMATION:

Re: entry to First Year, contact:
Mr. S. E. O'Flatharta BSc HDipEd MLitt CPhys MInstP,
Department of Physics.

Re: Applied Biology Option, contact:
Dr. L. Armstrong BSc PhD,
Department of Biological Sciences.

Re: Applied Chemistry Option, contact:
Mr. P. Ashall BSc FICI CChem MRSC,
Department of Chemistry.

Re: Applied Physics Option, contact:
Mr. J.E. Guy BSc MSc,
Department of Physics.

Telephone: 757541

TECHNICIAN DIPLOMA IN PHOTOGRAPHY

CAS CODE: DT 279

COLLEGE CODE: WASPH

DURATION:

Three years wholetime, or part-time on a modular basis.

DESCRIPTION OF COURSE:

This course, which is modular in basis, may be taken as a three year wholetime course, qualifying students for ESF funding. Alternatively, the course may be taken on a part-time modular basis by students in employment. This allows students to undertake the course at their own pace over a longer period, completing one phase's modules in a subject before going on to the next phase in that subject.

ENTRANCE REQUIREMENTS:

(a) Grade C3 or higher in two subjects taken at Higher Level in the Leaving Certificate Examination and pass levels in four other subjects in the Leaving Certificate Examination. (Mathematics, with at least a Grade C3 on the Ordinary Level paper and English must be among the subjects passed in all cases).

or

(b) An equivalent qualification.

or

(c) Acceptable appropriate practical experience.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS,
Tower House,
Eglinton Street,
Galway.

CLOSING DATE:

1st February.

COURSE OF STUDY:

PHASE ONE:

Photography Theory, Photography Practical, Visual Studies, Light, Business Studies, Communications, German, Computer Studies, Workshop Practice.

PHASE TWO:

Photography Theory, Photography Practical, Visual Studies, Optics, Business Studies, German, Electricity.

PHASE THREE:

Photography Theory, Photography Practical, Visual Studies, Holography, Health and Safety, Marketing and Business Communications, Computer Studies.

AWARD:

Students who have achieved a pass in all required modules of the course in Phases One, Two and Three are eligible for the award of Technician Diploma in Photography. The grade in which the award is made is based on the combined total of points accumulated from the modules undertaken.

Students of this course are eligible for the following award:

Technician Diploma in Photography (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

Graduates work as photographic assistants in photography practice in both the private and public sector..

Graduates who have attained the Technician Diploma in Photography at Credit or Distinction levels, may be eligible to continue their studies towards the Professional Diploma in Photography.

FOR FURTHER INFORMATION:

Mr. S. Coonan AdvCert(DIT) AdvCert(CGLI) MLitt,
Photography Section,
Department of Physics.
Telephone 757541.

DIPLOMA COURSES IN ELECTRONIC, COMMUNICATIONS & COMPUTER ENGINEERING

The College provides two three-year diploma courses in Electronic and Communications and Computer Engineering, one leading to the DIT Technician Engineering Diploma in Telecommunications and Electronics, DT 286 (WRTT), the other to the DIT Technician Diploma in Electronic Engineering DT 288 (WRS).

A common first year, Course Code DT 287 (WRTT/WRS), has been provided for both of these courses. On successful completion of this first year, students proceed over the following two years to study for either the DIT Technician Engineering Diploma in Telecommunications and Electronics, Course Code DT 286 (WRTT), see page 34, or for the DIT Technician Diploma in Electronic Engineering, Course Code DT 288 (WRS), see page 35.

The particular course of study open to students in these two subsequent years will be determined by the College having regard to performance in the first year examinations and, if necessary, in an interview.

TECHNICIAN ENGINEERING DIPLOMA IN TELECOMMUNICATIONS & ELECTRONICS
TECHNICIAN DIPLOMA IN ELECTRONIC ENGINEERING

(Common First Year Course)

CAS CODE: DT 287

COLLEGE CODE: WRTT/WRS

DESCRIPTION OF COURSE:

This common first year is designed to provide a foundation from which students may progress either via Course DT 286 (WRTT) to the Technician Engineering Diploma in Telecommunications and Electronics, or via Course DT 288 (WRS) to the Technician Diploma in Electronic Engineering.

ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in five subjects with grade B3 or higher in ordinary level Mathematics. Subjects must also include English at either level.

or

(b) The Senior Trade Certificate of the Department of Education 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 will be an acceptable equivalent.

or

(c) Such qualifications as the College may deem equivalent.

Note: It must be emphasised that the above are minimum entry requirements for the course. Because of the large numbers seeking entry a much higher standard is necessary in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS,
Tower House, Eglinton Street,
Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

Mathematics, Mechanics, Engineering Science, Electricity, Electronics, Computer Programming, Engineering Drawing, Electronic Components and Materials, Electronic Workshop Practice, Industrial Studies, Technical French or Technical German.

FOR FURTHER INFORMATION:

Mr. C.V. Cowley DipEE CEng MIEI MIEE,
Head, Department of Electronic and Communications Engineering.
Telephone: 757541 ext. 240

TECHNICIAN ENGINEERING DIPLOMA – TELECOMMUNICATIONS AND ELECTRONICS

CAS CODE: DT 286

COLLEGE CODE: WRTT

DURATION:

This course is of three years duration. The first year is also common to Course DT 288 (WRS). Details of the first year of this course, DT 287 (WRTT/WRS) are set out on page 33.

ENTRY REQUIREMENTS:

Please see page 33.

APPLICATION PROCEDURE:

Please see page 33.

DESCRIPTION OF COURSE:

The course is designed to provide a broad and thorough education for students intending to pursue careers as technician engineers in the various sections of the electronics, communications and computer industry.

The course has a strong analytical content, although the overall emphasis is applied and is design orientated. Computer Aided Design techniques are extensively used throughout the course so as to prepare students to work effectively in a modern design environment. In addition, students study business methods and practices and a European language over the three years of the course.

Graduates who obtain a grade of Distinction in the Diploma Examinations are eligible to apply for entry into the third year of the Honours Diploma Course in Electrical/Electronic Engineering (Code DT 221: FT 221). All graduates are granted exemption from the Part I Examinations of the Engineering Council (previously the Council of Engineering Institutions).

COURSE OF STUDY:

SECOND YEAR:

Mathematics, Physics, Electricity, Circuit Theory, Analogue and Digital Electronics, Electronic Measurements, Communications Engineering, Industrial Studies, Electronic Draughting, French or German.

THIRD YEAR:

Mathematics, Physics, Circuit Theory, Analogue and Digital Electronics, Computer and Microprocessor Systems, Communications Engineering, Industrial Studies, French or German. Integrated Circuit Fabrication is offered as an optional subject.

AWARDS:

Graduates of this course are eligible for the following award:

Technician Engineering Diploma – Telecommunications and Electronics (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

A Supplementary Certificate in Integrated Circuit Fabrication is awarded to graduates who are successful in a special examination in this optional subject.

CAREER OPPORTUNITIES:

Graduates have career opportunities over the full extent of the electronics, telecommunications and computer industry in a very wide range of positions.

FOR FURTHER INFORMATION:

Mr. C.V. Cowley DipEE CEng MIEI MIEE,
Head, Department of Electronic and Communications Engineering.
Telephone: 757541 ext. 240

TECHNICIAN DIPLOMA IN ELECTRONIC ENGINEERING

CAS CODE: DT 288

COLLEGE CODE: WRS

DURATION:

This course is of three years duration. The first year is also common to Course DT 286 (WRTT). Details of the first year of this course, DT 287 (WRTT/WRS) are set out on page 33.

ENTRY REQUIREMENTS:

Please see page 33.

APPLICATION PROCEDURE:

Please see page 33.

DESCRIPTION OF COURSE:

The theoretical and practical content of this course is designed to provide a sound technical education for students preparing for careers as technicians in the production, testing, installation and maintenance, and sales of electronic, communications and computer equipment.

The subjects covered on the course include Mathematics, Analogue and Digital Electronics, Communications Engineering and Computer Systems, but Measurements, Measuring Methods and Instruments form the unifying core for the different areas of study.

COURSE OF STUDY:

SECOND YEAR:

Mathematics, Physics, Electricity, Circuit Theory, Analogue and Digital Electronics, Electronic Measurements, Communications Engineering, Industrial Studies, Electronic Draughting, French or German.

THIRD YEAR:

Mathematics, Electronic Circuits, Analogue and Digital Electronics, Microprocessor Systems, Communications Engineering, Industrial Studies, French or German.

AWARDS:

Graduates of this course are eligible for the following award:

Technician Diploma in Electronic Engineering (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

Because of the breadth of coverage provided, career opportunities for the technician graduate are correspondingly wide, covering the whole electronics production industry, radio and television broadcasting, computer manufacture and maintenance, medical electronic equipment, communications and navigation systems.

FOR FURTHER INFORMATION:

Mr. C.V. Cowley DipEE CEng MIEI MIEE,
Head, Department of Electronic and Communications Engineering.
Telephone: 757541 ext. 240

TECHNICIAN CERTIFICATE IN ELECTRONICS

CAS CODE: DT 289

COLLEGE CODE: WRCE

DURATION:

Two years wholetime

DESCRIPTION OF COURSE:

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 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.

ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in five subjects which must include Mathematics with a minimum level of Grade C3 at Ordinary Level, and English.

or

(b) The Senior Trade Certificate of the Department of Education 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 will be an acceptable equivalent.

or

(c) Such qualification as the College may deem equivalent.

Note: It must be emphasised that the above are minimum entry requirements for the course. Because of the large numbers seeking entry a higher standard is necessary in practice to gain a place.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS,
Tower House, Eglinton Street,
Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Mathematics, Engineering Science, Electricity, Electronics Workshop, Analogue and Digital Electronics, Electrical Draughting, Communication Systems, Computer Programming, Project.

SECOND YEAR:

Mathematics, Electricity, Circuit Theory, Digital and Analogue Electronics, Communication Principles, Computer Systems, Computer Programming, Project.

AWARD:

Graduates of this course are eligible for the following award:-

Technician Certificate in Electronics (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

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.

FOR FURTHER INFORMATION:

Mr. C.V. Cowley DipEE CEng MIEI MIEE,
Head, Department of Electronic and Communications Engineering.
Telephone: 757541 ext. 240

CERTIFICATE COURSE IN ELECTRICAL AND ELECTRONIC DRAUGHTING

CAS CODE: DT 244

COLLEGE CODE: ESED

DURATION:

One year wholetime

DESCRIPTION OF COURSE:

This is a one-year wholetime course designed to prepare students for careers in the drawing offices of consulting engineers, electrical contractors, and electrical/electronic equipment designers, manufacturers and assemblers.

ENTRY REQUIREMENTS:

Passes in five subjects in the Irish Leaving Certificate including English and Mathematics, or such qualifications as the College may deem equivalent.

APPLICATION PROCEDURE:

Applicants should apply on the standard CAO/CAS Application Form to:

CAO/CAS,
Tower House,
Eglinton Street,
Galway.

CLOSING DATE:

1st February

COURSE OF STUDY:

Electrical Science (including Electronics), Electrical Installation Theory, Electrical Draughting (including computer aided draughting), Engineering Drawing, Laboratory/ Workshop, and Project Work.

SPECIAL FEATURES:

This is a broadly-based course on electrical/electronic draughting and on current drawing-office practice.

AWARD:

Internal examinations are set by the College. A Certificate with Pass, Credit or Distinction, as appropriate, is awarded by the College to successful students.

CAREER OPPORTUNITIES:

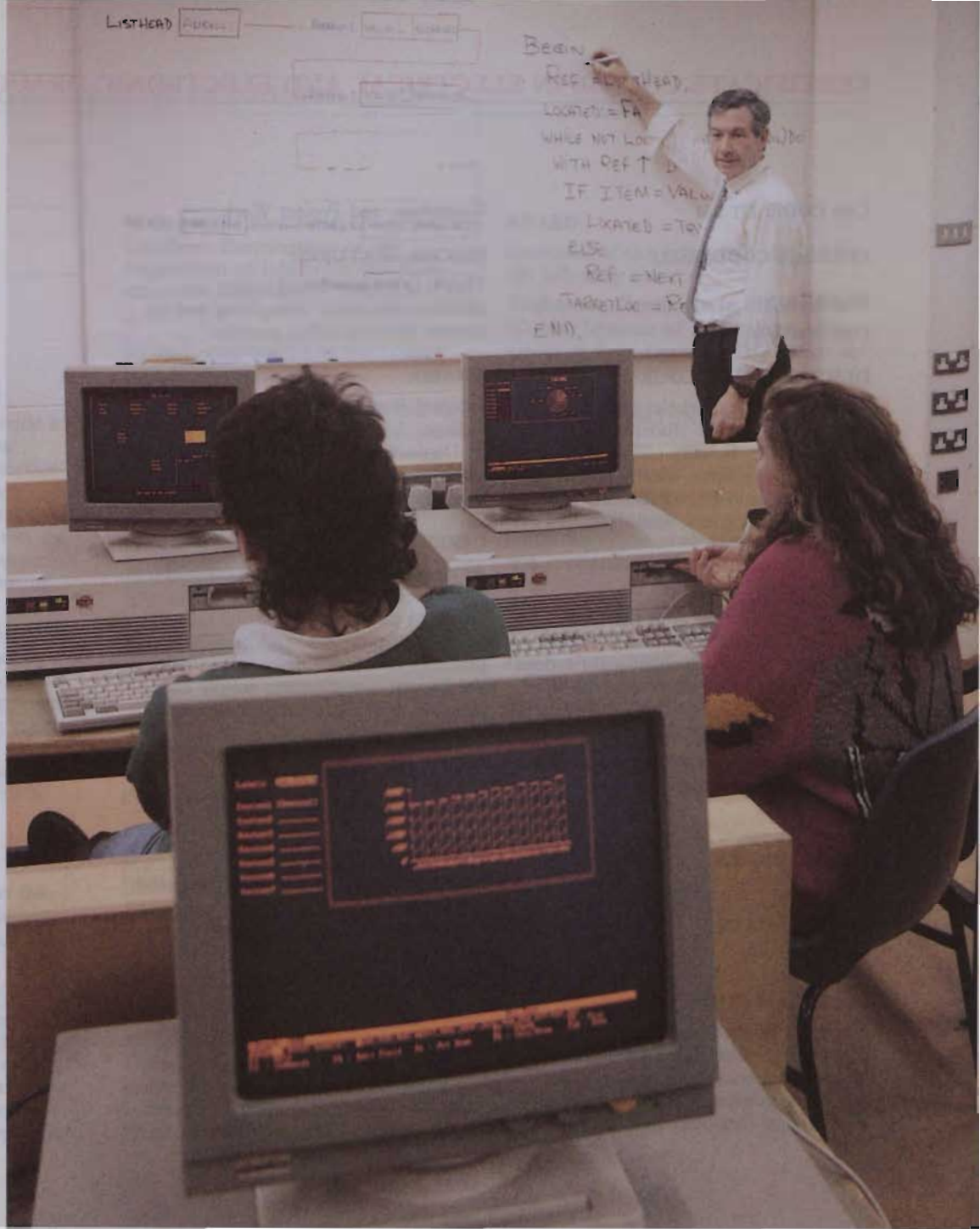
As a result of the broad coverage of the course, successful students have taken up positions in drawing offices within consultancies, architectural practices and many firms involved in the design, manufacture, supply and installation of electrical and electronic systems.

DEPARTMENT IN CHARGE:

Electrical Installation.

FOR FURTHER INFORMATION:

Mr. R. McCann BA Final(EEP)DeptofEd HDipEd,
Department of Electrical Installation.
Telephone: 757541 ext. 222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COURSES NOT INCLUDED ON CAO/CAS LISTS

CÚRSAÍ NEAMH SPLEACH Ó LISTÍ CAO/CAS

DIT Code	College Code	Course Description	Course Duration (years)	Course Fee for 1992/93
*DT 276	WASDT	Technician Diploma in Dental Technology	3	IR£1,440
†DT 285	WRAL	Technician Certificate in Electronics (Avionics)	2	IR£540

* For entry, please contact the Dean, Dental School, Trinity College, Dublin 2.

† For entry, please contact the Head of Education and Training, TEAM/Aer Lingus, Dublin Airport, Co. Dublin.

TECHNICIAN DIPLOMA IN DENTAL TECHNOLOGY

CAS CODE: DT 276

COLLEGE CODE: WASDT

DURATION:

Three years whole-time

DESCRIPTION OF COURSE:

This course is run jointly by the Dublin Institute of Technology (College of Technology, Kevin Street) and the University of Dublin (Dental Hospital). The course aims to provide the educational and training requirements of students who plan to become Dental Technicians.

The Technician Diploma of the Dublin Institute of Technology and the Technician Diploma of the University of Dublin are awarded on the results of the third year examinations.

ENTRANCE REQUIREMENTS:

(a) Pass in English, Pass in Mathematics or Applied Mathematics, Pass in three other subjects in the Leaving Certificate Examination.

or

(b) Attainments which the College and Hospital regard as equivalent to those in (a) will be acceptable.

Note: It must be emphasised that the above are the minimum requirements for the course. Because of competition for places, a higher standard is necessary in practice to gain entry to the course.
Interviews may be used in the student selection process.

APPLICATION PROCEDURE:

Applicants should apply on the standard DIT Application Form to:

The Registration Section,
Dublin Institute of Technology,
Kevin Street, Dublin 8.

CLOSING DATE:

1st February

COURSE OF STUDY:

FIRST YEAR:

Physics, Chemistry, Mathematics, Anatomy and Physiology, Dental Laboratory Practice.

SECOND YEAR:

Dental Materials Science, Technical Drawing, Business Studies, Dental Laboratory Practice.

THIRD YEAR:

Dental Laboratory Practice, Projects.

AWARDS:

Graduates of the three-year Diploma course are eligible for the following awards:

Technician Diploma in Dental Technology (Dublin Institute of Technology) and

Technician Diploma in Dental Technology (University of Dublin), with grades of Pass, Credit or Distinction as appropriate.

CAREER OPPORTUNITIES:

Graduates of the course will find employment as dental technicians in dental laboratories, with dental practitioners and in dental and related hospital departments.

FOR FURTHER INFORMATION:

Dr. M. Hussey,
Head,
Department of Physics,
Telephone 757541 ext. 265

TECHNICIAN CERTIFICATE IN ELECTRONICS (AVIONICS)

DIT CODE: DT 285

COLLEGE CODE: WRAL

DURATION:

Two years wholetime

DESCRIPTION OF COURSE:

This course is designed to provide a qualification at Certificate level for students who are employed as trainee electronics/communications technicians in the avionics industry.

ENTRY REQUIREMENTS:

(a) Irish Leaving Certificate in five subjects which must include Mathematics and English

or

(b) The Senior Trade Certificate of the Department of Education 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 will be an acceptable equivalent

or

(c) Such qualifications as the College may deem equivalent.

Selection for students entering this course is made by the employer subject to the requirements of (a), (b) and (c) above.

APPLICATION PROCEDURE:

Applicants must be employed in the Aviation industry, and applications must be made directly to this College by the employer.

COURSE OF STUDY:

FIRST YEAR:

Mathematics, Engineering Science, Electricity, Electronics Workshop, Analogue and Digital Electronics, Electrical Draughting, Communication Systems, Computer Programming, Avionics, Project.

SECOND YEAR:

Mathematics, Electricity, Circuit Theory, Digital and Analogue Electronics, Communication Principles, Avionics.

AWARD:

Graduates of this course are eligible for the following award:

Technician Certificate in Electronics (Avionics) (Dublin Institute of Technology) with grades of Pass, Credit or Distinction as appropriate.

FOR FURTHER INFORMATION:

Mr. C.V. Cowley,
Head, Department of Electronic and Communications Engineering.
Telephone 757541 ext. 240

GRADUATE DIPLOMA OF THE INSTITUTE OF FOOD SCIENCE AND TECHNOLOGY

DIT CODE: DT 213

COLLEGE CODE: WSFS

DURATION:

One year wholetime.

It is also possible to prepare for this qualification by three years of part-time study by taking courses S6.1 and S6.2 followed by S6.3.

DESCRIPTION OF COURSE:

This course is designed to assist candidates prepare 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.

QUALIFICATIONS FOR ADMISSION:

BSc or equivalent.

GRANTS AND SCHOLARSHIPS:

The Department of Education 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 continue to hold their Grants and Scholarships.

APPLICATION PROCEDURE:

Applicants should apply directly to:

The Registration Section,
Dublin Institute of Technology,
Kevin Street, Dublin 8.

CLOSING DATE:

14th September

COURSE AIM:

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 micro-organisms 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 OF STUDY:

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.

AWARD:

The 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.

FOR FURTHER INFORMATION:

Mr. John J. McEvoy BSc BA BD BSc(Econ) AIFSTI,
Department of Biological Sciences,
Dublin Institute of Technology,
Kevin Street, Dublin 8.
Telephone: 757541 ext. 230

GRADUATESHIP DIPLOMA OF THE INSTITUTE OF BIOLOGY

DIT CODE: DT 219

COLLEGE CODE: WSIB

DURATION:

One and a half years wholetime.

DESCRIPTION OF COURSE:

Graduateship of the Institute of Biology is equivalent to a good honours degree qualification and is universally recognised as such by Industry, Academic Institutions and Departments of Education. Second level teachers having this qualification qualify for the honours degree allowance.

ENTRANCE REQUIREMENTS:

A pass in the Part I Examination of the Institute of Biology or an Appropriate BSc(General) Degree, Fellowship of the Institute of Medical Laboratory Sciences, or a quality pass in the Technician Diploma in Applied Science (Biology) from DIT Kevin Street.

APPLICATION PROCEDURE:

Applicants should apply directly to:

The Registration Section,
Dublin Institute of Technology,
Kevin Street, Dublin 8.

CLOSING DATE: 31st August

COURSE OF STUDY:

The topics covered include: analytical methodology, metabolism and metabolic regulation, cell biology, immunology, molecular genetics and computer methods. A laboratory course to supplement the lectures is also included.

The latter half of the course takes a more applied approach, and builds on the knowledge of the student. Subject areas covered include: Applied Aspects of Microbial and Plant Biochemistry, an Introduction to Biotechnological Engineering, Commercial Aspects of Enzyme and Animal Products, Applications of Cell Biology, Genetic Engineering and Radioisotopes.

Also included in Part II of the course is the project which is an independent investigation which should take some 70 hours of course time. The investigation should be planned to give a definite answer at the end of the investigation. The project is carried out under the supervision of a member of staff. The report of the project should consist of an abstract of about 300 words and the report should normally be between 5,000 and 7,000 words, excluding figures, tables and bibliography.

EXAMINATIONS:

Part II of the Graduateship of the Institute of Biology Examination consists of four papers in Biochemistry, the Project and Assessment Components. An oral examination, carried out by Members of the Institute is also included.

AWARD:

Graduateship Diploma of the Institute of Biology with grades of First Class Honours, Second Class Honours, Third Class Honours or Pass as appropriate.

CAREER OPPORTUNITIES:

Honours graduates from this course may proceed to post-graduate studies leading to the award of MSc or PhD; they may also apply for graduate biochemist positions in the hospital services and in industry and Semi-State organisations.

FOR FURTHER INFORMATION:

Dr. Louis M. Armstrong,
Department of Biological Sciences.
Telephone: 757541 ext. 320

HONOURS DIPLOMA IN COMPUTER SCIENCE

DIT CODE: DT 226

COLLEGE CODE: WCS

DURATION:

The College is giving consideration to the establishment of an Honours Diploma in Computer Science which may be taken in one year wholetime.

DESCRIPTION OF COURSE:

The Honours Diploma in Computer Science is proposed for graduates of the (Technician) Diploma in Computer Science course who wish to further their computing education. The course aims to increase the student's depth of knowledge and to prepare him/her for a considerable degree of personal responsibility, both in the organisation, planning and execution of his/her work as a Computer Scientist and in the supervision of others. The course will be taken as a one-year wholetime course.

ENTRY REQUIREMENTS:

(a) The (Technician) Diploma in Computer Science

or

(b) success in the Part I Examination for membership of the British Computer Society.

APPLICATION PROCEDURE:

Applicants should apply directly to:

The Registration Section,
Dublin Institute of Technology,
Kevin Street,
Dublin 8.

CLOSING DATE:

31st August

COURSE OF STUDY:

Software Engineering, Microprocessing, Information Technology, Networks.

AWARD:

The course will be submitted to the Academic Council of the Dublin Institute of Technology for consideration. If approved, the Academic Council will designate the award.

CAREER OPPORTUNITIES:

The graduates of this course may work as Programmers, Programmer-Analysists, Systems Analysists and Computer Managers.

FOR FURTHER INFORMATION:

As this course is presently at the design stage, interested parties should first consult the undermentioned.

Dr. Brendan O'Shea,
Assistant Head,
Department of Mathematics, Statistics and Computer Science.
Telephone 757541 ext. 221

PROFESSIONAL DIPLOMA IN PHOTOGRAPHY

DIT CODE: DT 280

COLLEGE CODE: WSPH

DURATION:

The College is giving consideration to the establishment of a Professional Diploma in Photography which may be taken in one year wholetime, or part-time on a modular basis.

DESCRIPTION OF COURSE:

The Professional Diploma in Photography is proposed for graduates of the Technician Diploma in Photography course who wish to further their photographic education. The course aims to increase the student's depth of knowledge and to prepare him/her for a considerable degree of personal responsibility, both in the organisation, planning and execution of his/her work as a photographer and in the supervision of others.

This course, which will be modular in basis, may be taken as a one year wholetime course. Alternatively, the course may be taken on a part-time modular basis by students in employment. This allows students to undertake the course at their own pace over a longer period.

ENTRANCE REQUIREMENTS:

(a) The Technician Diploma in Photography, with a good quality result

or

(b) A qualification deemed by the College to be equivalent.

APPLICATION PROCEDURE:

Applicants should apply directly to:

The Registration Section,
Dublin Institute of Technology,
Kevin Street,
Dublin 8.

CLOSING DATE: 31st August

COURSE OF STUDY:

Photography Theory, Photography Practical, Visual Studies, Law, Communications.

AWARD:

The course will be submitted to the Academic Council of the Dublin Institute of Technology for consideration. If approved, the Academic Council will designate the award.

CAREER OPPORTUNITIES:

It is expected that graduates may work as photographers in photography practices, large commercial companies or institutions. It is anticipated that many may also form their own practices.

FOR FURTHER INFORMATION:

As this course is presently at the design stage, interested parties should first consult the undermentioned.

Mr. David H. Davison AIPPA,
Photography Section,
Department of Physics.
Telephone 757541 ext. 248

GRADUATE MEMBERSHIP DIPLOMA OF THE ROYAL SOCIETY OF CHEMISTRY (PART II)

DIT CODE: DT 299

COLLEGE CODE: WSIC

DURATION:

One year. This course can also be followed over two years part-time study (see course code PSIC).

DESCRIPTION OF COURSE:

Graduateship of the Royal Society of Chemistry is equivalent to a good honours degree qualification and is universally recognised as such by Industry, Academic Institutions and Departments of Education. Second level teachers having this qualification qualify for the honours degree allowance.

ENTRY REQUIREMENTS:

Entry to the course is subject to the approval of the Royal Society of Chemistry. The requirement is GRSC (Part I) or equivalent. Usually a BSc(Pass), BSc(Gen) or Technician Diploma in Applied Science (DIT) with Chemistry as a final year subject is acceptable.

For details of GRSC (Part I) see code PSIC.

APPLICATION PROCEDURE:

Applicants should apply directly to:

The Registration Section,
Dublin Institute of Technology,
Kevin Street, Dublin 8.

CLOSING DATE: 1st September.

COURSE OF STUDY:

The curriculum is divided into four main areas: Inorganic, Organic, Physical and Applied Chemistry. Final assessment is based on an examination comprising a paper in each of these areas and on continuous assessment of practical work projects, problem solving and communication skills. The course work is monitored internally under the GRSC Group Scheme and externally by External Examiners appointed by the Royal Society of Chemistry.

AIM OF COURSE:

To produce professionally qualified chemists who will pursue careers in Industry, the teaching profession or full-time research for MSc and PhD qualifications.

CAREER OPPORTUNITIES:

Graduates would expect to obtain responsible positions within the very wide ranging Chemical Industry e.g. Plastics, Adhesives, Pharmaceuticals, Brewing. Graduates have followed research careers in the field of Chemistry.

FOR FURTHER INFORMATION:

Dr. N.R. Russell,
Department of Chemistry.
Telephone 757541 ext. 220

NOTE:

The RSC Group Scheme, as presently constituted, is undergoing radical alteration. Consequently, the RSC Part II Examination in its present form will be held for the last time in June 1994. The final enrolment in the course under the present constitution will be as follows:

Wholetime Course: September 1993
Part-time Course: September 1992

Negotiations are proceeding for continuation of the course on the basis of Joint Validation with another Institution. Entrance procedures will be outlined as soon as they are available.

INFORMATION ON ELIGIBILITY AND SELECTION

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1. To be eligible for consideration for a course, an applicant must possess the minimum entry requirements for that course as set out on pages 51 and 52.
2. Where a course requirement is 2 or 3 honours, grade HC3 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 grade appears under a mandatory 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. For the purpose of meeting minimum entry requirements, results from any number of sittings of the Irish Leaving Certificate may be combined.
5. **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.**
6. Matriculation Examination results will not be accepted either for the purpose of meeting minimum entry requirements or for calculating examination score.
7. In the case of course FT 221 (Degree List), special weightings will be applied to certain subjects as detailed on page 9.
8. Selection for entry to DIT Kevin Street courses will be determined on the basis of examination score only.
9. Demand usually exceeds the number of places available and therefore examination results better then the minimum requirement are likely to be required.
10. The course fees shown on pages 8, 17, 23, 39 and 42 were those in operation for 1992. Fees for courses commencing in September 1993 may be higher.
11. **Course DT 287:** On successful completion of first year of the course, students proceed over the following two years to study for either the DIT Technician Engineering Diploma in Telecommunications and Electronics or the DIT Technician Diploma in Electronic Engineering. The particular course of study open to students in these two years will be determined by the College, having regard to performance in the first year summer examinations.

POINTS SYSTEM FOR ALL DIT COURSES

CORAS POINTÍ

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

From 1992 onwards:

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

Pre-1992:

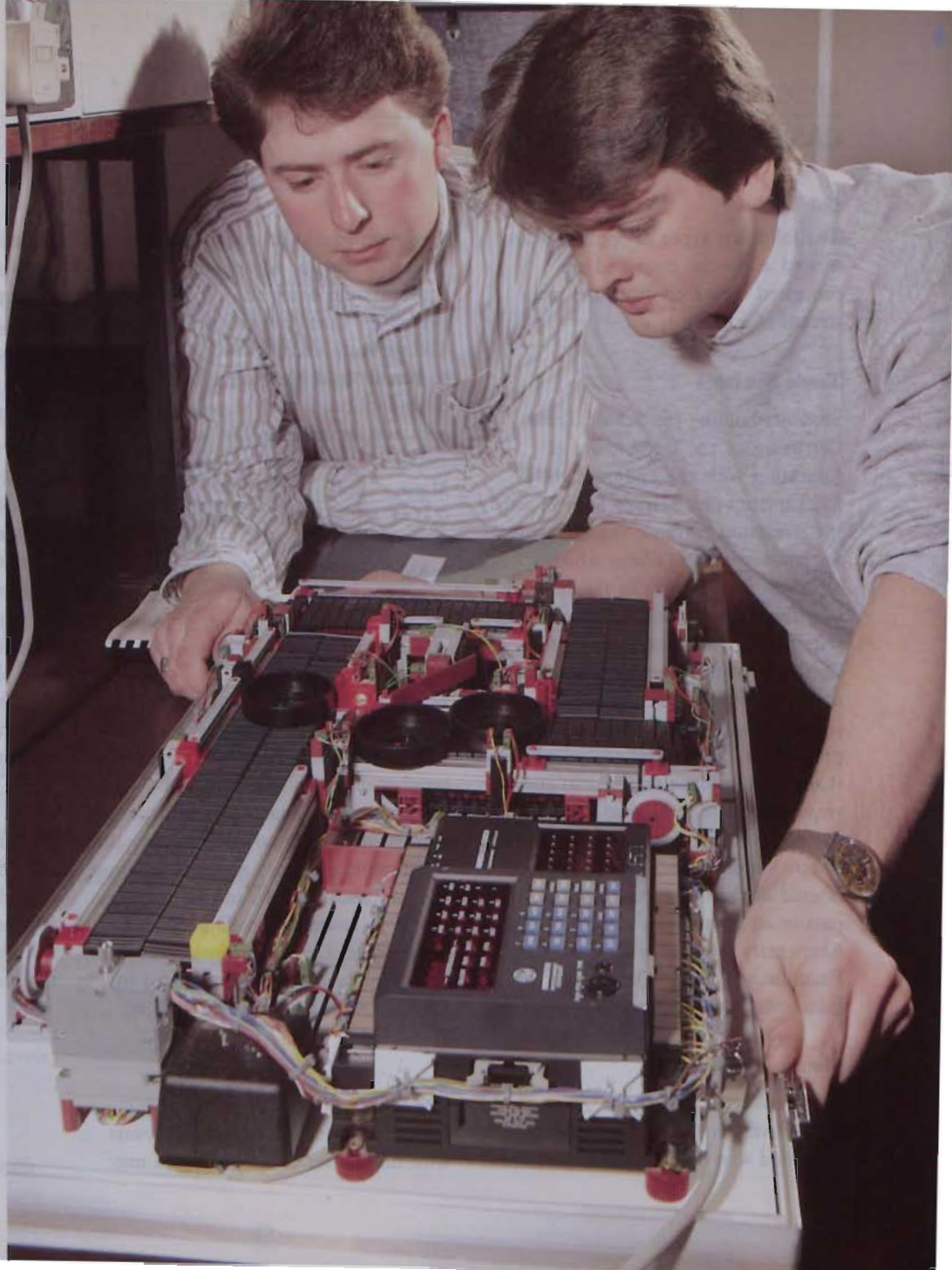
Higher	Grade	Lower
95	A	55
80	B	40
65	C	25
50	D	10

Summary of Minimum Leaving Certificate Requirements for Wholetime Courses

Tábla Íos-Cáilíochtaí Árd Teistiméireachta Riachtanach do Chúrsaí Lánaimsearacha

Irish Leaving Certificate

CAO/CAS Codes	Six Subjects	Five Subjects	Three Honours	Two Honours	Mandatory Mathematics	Mandatory English	Other Mandatory Subjects	Weighted Subjects	College Codes
FT 221	●			●	HC3	●	i	●	SEE
FT 222	●			●	OB3	●	ii		WSAD
FT 223	●		●		●	●	iii		WBD
DT 200		●			●	●			WBT
DT 214	●			●	OC3	●	iv		WML
DT 231		●			OB3	●			WEET
DT 244		●			●	●			ESED
DT 255		●			●	●	v		WLBS
DT 266	●			●	OB3	●			WMT
DT 272	●			●	●	●			WSO
DT 273		●			●	●			WAS
DT 276		●			●	●			WASDT
DT 279	●			●	OC3	●			WASPH
DT 285		●			●	●			WRAL
DT 287		●			OB3	●			WRTT/WRS
DT 289		●			OC3	●			WRCE



DÉANAMH ROGHA

The courses offered by the Dublin Institute of Technology, Kevin Street 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 at 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 DIT Kevin Street 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 within it. This means informing yourself about career conditions and opportunities and how your own abilities will match them.

Finding out about Courses & 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:

- Guidance Counsellors, School Principals, subject teachers.
- Television Programmes.
- Books, Pamphlets, Videos in your School or Public Library.
- Leaflets published by FÁS.
- The publications of professional institutes and societies such as accountancy bodies, engineering institutions, etc.
- Handbooks, Guides and Magazines dealing with careers.
- Newspaper Articles.
- DIT Annual Series of Career Talks and Annual One-Day Seminar.
- College 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 College Prospectus or Booklet which contains detailed information on all full-time 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.
- 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.

BEALACH IARRATAIS

Application for admission to any of the DIT Degree Courses and the Professional Diploma, Diploma, Certificate and other courses (listed on pages 8, 17 and 23) must be made directly to:

CAO/CAS,
Tower House, Eglinton Street,
Galway.

Application must be made on the CAO/CAS JOINT APPLICATION FORM, which is available — together with the CAO/CAS JOINT HANDBOOK 1993 — from the CAO. You should read the handbook carefully before submitting an application.

A. Application for DIT Degree Courses

The DIT Kevin Street degree courses are included in the DEGREE LIST. If you wish to apply for one or more of these courses, you should include the courses of your choice in the DEGREE LIST on Page Two of the CAO/CAS JOINT APPLICATION FORM.

B. Application for DIT Non-Degree Courses

The DIT Kevin Street courses in this category are included in the DIPLOMA/CERTIFICATE LIST. If you wish to apply for one or more of these courses you should include the courses of your choice in the DIPLOMA/CERTIFICATE LIST on Page Two of the CAO/CAS JOINT APPLICATION FORM.

C. Closing Dates

The CLOSING DATE for receipt of applications at the ordinary fee for EC Applicants is 1st February 1993.
Late Applications may be made after 1st February 1993 (see Page 4 of the CAO/CAS JOINT HANDBOOK 1993).

Notes:

1. Late Applications from CERTAIN CATEGORIES OF APPLICANT will only be accepted up to 31st March 1993. The categories of applicant to which this restriction applies are: MATURE APPLICANTS, APPLICANTS PRESENTING TRADE QUALIFICATIONS, APPLICANTS PRESENTING POST-LEAVING CERTIFICATE COURSES (PLC), APPLICANTS PRESENTING THIRD LEVEL COURSES, APPLICANTS PRESENTING FULL-TIME EMPLOYMENT EXPERIENCE.

The reason for the restriction to 31st March 1993 in the case of such applicants is to allow sufficient time for DIT academic staff to assess the qualifications/experience/achievements being presented.

2. Overseas (non-EC) applicants should note the regulations governing Overseas Applications in the CAO/CAS JOINT HANDBOOK 1993.

D. Deferred Entry

A facility to defer entry for one year is available for almost all DIT courses at present. In order to avail of the facility, an applicant must first be offered a place. The following procedure must then be followed:

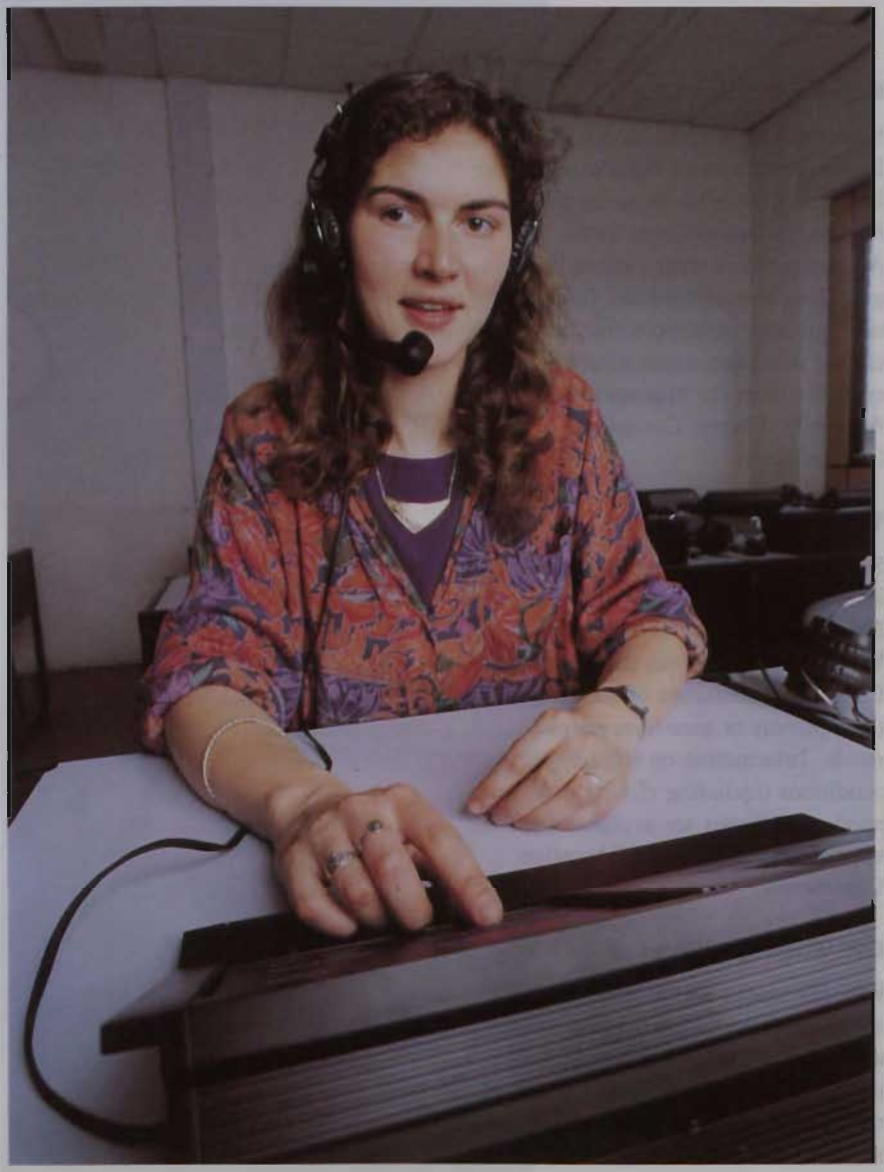
1. The successful applicant should **not** accept the place offered or pay any deposit.
2. He/she must apply in writing to the Admissions Officer, Dublin Institute of Technology, 14 Upper Mount St., Dublin 2, requesting deferral and giving the reason.
3. The written request must be received in the Admissions Office no 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 notified 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 comply with certain procedures for taking up the reserved place, including the submission of an application form to CAO for the deferred course in the following year. Such procedures will be advised to the applicant in writing by the Admissions Officer before 15th January of the following year.



DEONTAÍSÍ AGUS SCOLÁIREACHTAÍ

Higher Education Grants

Students who are admitted to Diploma/ Degree level courses conducted by the Institute are eligible to apply for a Higher Education Grant to the Local Authority where their parents or guardians normally reside. Information on eligibility, conditions (including closing date) and application forms are available from the **appropriate Local Authority** (County Council or Corporation).

VEC Scholarships

Students who are admitted to courses leading to DIT Diploma or Diploma/ Degree awards may be eligible for a VEC Scholarship from the Vocational Education Committee of the area where their parents or guardians normally reside. Information on eligibility, conditions (including closing date) and application forms are available from the **appropriate Vocational Education Committee.**

ESF Training Allowances

ESF (European Social Fund) training allowances may be available to students while they are pursuing certain 1, 2 & 3 year courses provided their attendance record and general performance is satisfactory. These cover tuition fees and may also provide for payment of a monthly allowance for those who are admitted to a course of this type. It is not necessary to apply for these allowances.

Applicants should note that the maintenance element of ESF training allowances is subject to a means test.

A student may not hold more than one of the above in respect of his/her attendance at a particular time on a course.

25 metre Swimming Pool at DIT Kevin Street.

DIT INFODISK

ITBÁC INFODISK

In keeping with the growing importance of computer-based communications, especially for young people, the Dublin Institute of Technology has now produced **DIT INFODISK**, which provides information on the Institute's full-time 3rd level courses on computer disk. The disk can be used on Apple Macintosh machines and also on all IBM-compatible PC systems using Windows.

All aspects of DIT full-time courses are covered including admission requirements, application procedures, course content and job opportunities.

Copies of **DIT INFODISK** are available from the DIT Admissions Office, 14 Upper Mount Street, Dublin 2 at a cost of IR£10.

DIT ON MINITEL

ITBÁC AR MINITEL

Information on all of the courses listed in this booklet is also available on Minitel in addition to a bulletin board service which carries notices and announcements of forthcoming events in DIT.

This service from the Dublin Institute of Technology is provided in association with the City of Dublin VEC. Please refer to the Minitel Directory of Services for access information (Code: DIT).