

1984

Fulltime Courses 1984-85

City of Dublin Vocational Education Committee

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City of Dublin Vocational
Education Committee

Dublin Institute of
Technology

College of Technology Bolton St.



Fulltime Courses 1984/5

FULLTIME COURSES 1984-85

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CHATHAIR ÁTHA CLIATH

CITY OF DUBLIN VOCATIONAL
EDUCATION COMMITTEE

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BHAILE ÁTHA CLIATH

DUBLIN INSTITUTE
OF TECHNOLOGY

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TEICNEOLAÍOCHTA**

**COLLEGE OF
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FOREWORD

This booklet has been prepared to provide information about the wholetime courses offered by the College of Technology, Bolton Street, Dublin 1 and the method of applying for them. We are conscious of the difficulties facing young people in deciding on careers and selecting the most suitable courses to prepare for them. We hope that you will find the booklet useful and informative.

Since Bolton Street is but one of the six Colleges operating under the City of Dublin Vocational Education Committee, each of which plays a complementary role in the provision of third level education, our range of programmes is necessarily concentrated. We offer considerable opportunities to those of you wishing to prepare for the important professions of Architecture, Engineering and Surveying and careers related to these disciplines in Construction, Manufacturing and Transport. Each of these sectors makes a vital and major contribution to the Irish economy and consequently must offer many challenging and rewarding job opportunities in the decades ahead. The College is also the main centre in Ireland preparing young people for entry into the Printing industry.

There are many things one could say about the College and its programmes which may interest you. It is a technological educational institution with the prime objective of assisting young people to acquire the knowledge and skills necessary for a fulfilling and rewarding career. Our well qualified and experienced staff and extensive range of laboratories, workshops and other facilities provide the basis for a vigorous and lively academic community. If you decide to apply and are accepted we hope that you will enjoy your stay with us.

Michael O'Donnell,
PRINCIPAL.

PROFILE OF THE COLLEGE

The College of Technology, Bolton Street, is the largest of the six colleges which make up the Dublin Institute of Technology. The other five Colleges are: College of Technology, Kevin Street, Dublin 8, College of Commerce, Rathmines, Dublin 6, College of Marketing & Design, Parnell Square, Dublin 1, Dublin College of Catering, Cathal Brugha Street, Dublin 1, College of Music, Chatham Row, Dublin 2. It was opened in 1911 to provide courses in various aspects of Building, Engineering and Printing. It was one of the first Irish buildings specially designed for technical/technological education and while it has undergone major extensions to cater for expanding demands its original distinctive facade remains. Over the years the College has provided opportunities for thousands of young people to qualify as architects, engineers, surveyors, technologists, technicians and craftsmen, thus enabling it to play a strategic role in developing the Irish economy.

Today the College has responsibility both nationally and regionally for the provision of comprehensive programmes of technical and technological education in each of its major disciplines. It has more than 8,000 students of whom 1,200 are full time third level students. It is organised into eleven departments; Architecture and Town Planning; Engineering Technology; Surveying & Building; Science and Mathematics; Aeronautical Engineering; Automobile Engineering; Building Trades; Engineering Trades; Metal Fabrication; Printing and Book Production. Full-time courses at degree level are offered in Architecture, Construction Economics, Environmental Economics, Mechanical Engineering, Production Engineering, Structural Engineering and Building Services Engineering.

Full-time technician courses are offered in the fields of Architecture, Construction, Civil Engineering, Building Services Engineering, Mechanical Engineering, Motor Engineering, Geo-Surveying, and Printing. The College caters for some twenty trades through part-time day and block release courses, including Building, Cabinet Making, Painting, Metal Fabrication, Aeronautical, Automobile and other Engineering Trades, Printing and Book Production. In addition, the College offers many other part-time day and evening and short courses at professional, technician and craft levels.

The close links which exist between the college and industry are strengthened by the large number of part-time and block-release students attending the College. In addition full-time students usually have industrial training during summer vacation, and project work, which forms a core in full-time courses and is based on industrial or on community problems. To assist in updating the courses, the College has a number of Advisory Committees drawn from industry, the professions and other appropriate organisations.

A prominent feature of the College's research activity is its concern with the Built Environment which in turn involves participation by the Department of Architecture and Surveying in many regional projects and development programmes. Other Departments co-operate closely with industry in a number of research and development projects as well as in the more specific areas of education and training.

ENTRY QUALIFICATIONS and SELECTION PROCEDURES

Specific minimum entry and subject requirements in the Irish Leaving Certificate context are given as part of the information provided for each course entry later in this booklet. Due to the level of competition for the limited number of places available on each course, qualifications well above the stated minimum requirements may be necessary.

The following are the minimum educational entry requirements in general terms:—

(a) Diploma/Degree Level Courses (i.e. D1, D3, D4, D42M, D42P, D42S, D42B) Irish Leaving Certificate with passes in six subjects, two of which must be at grade C or higher in higher papers. The six subjects passed must include Mathematics and English.

(b) Technician or Sub-degree Courses (i.e. D2A, D5A, D8, D40, D44, D46C, D46H, D46M, and D80) Irish Leaving Certificate with passes in five subjects which must include Mathematics and English.

The College is prepared to consider a range of alternative qualifications to the Irish Leaving Certificate and the following are given as indicative of the approach which is adopted.

Grade I in an NUI Matriculation subject (other than Mathematics and Science) is equated to Grade B on a higher level paper. Please note however, that the additional weighting factor in the case of course FT04 applies only to the Leaving Certificate Mathematics and Science subjects.

Grades II, III and IV in the NUI Matriculation are regarded as equivalent to an ordinary level Leaving Certificate pass.

Grades A, B and C in the GCE Advanced Level are regarded as meeting the Grade C or higher in a higher level paper requirement.

Grade D and E in the GCE Advanced Level or Grades A, B and C in the ordinary Level GCE are regarded as equivalent to an ordinary level Leaving Certificate pass.

Selection Procedures

Applicants are placed in order of educational score merit in accordance with the points system shown below allocated to the best results in five subjects (technician courses) or six subjects (degree level courses) obtained in one or more school leaving examinations having regard to the relevant course entry requirements. Generally demand exceeds the number of places available and qualifications above the minimum are required.

In the case of the Architectural courses (i.e. D1 and D8) applicants will be required to take a suitability test and this will be used in determining which applicants are called for interview. The results of suitability tests and interviews will be combined with the total educational points scored in the best five or six subjects referred to above to give an overall rating. It is anticipated that these tests will be held in April 1984. Applicants who have not been notified by the end of April as to when they should take their test should contact the College.

In the case of the professional/degree level courses in Engineering and Surveying (i.e. D42M, D42P, D42S, D42B, D3 and D4) the selection will be based on the direct educational score in the six best subjects as already described. In the case of all other courses qualified applicants may be called for interview and the results of this will be combined with the educational score on the five best subjects to give an overall rating. Interviews are normally held in early September.

Applicants should note carefully the specific course entry requirements before entering the course preference order in the application form

POINTS WEIGHTING FOR DIFFERENT GRADES

Points	LEAVING CERTIFICATE		N.U.I. MATRIC
	Higher	Ordinary	
9	A	—	—
7	B	—	I
6	C	—	—
5	—	A	II
4	D	—	—
3	—	B	III
2	—	C	IV
1	—	D	—

Additional Points for some subjects in relation to Engineering courses FT04

The following points scores are awarded to grades A to C on the higher Leaving Certificate paper in Mathematics. A—14, B—12, C—10.

The following points scores are awarded to grades A to C on the higher Leaving Certificate papers in Physics, Chemistry, Physics with Chemistry, Applied Mathematics and Mechanics. A—11, B—9, C—7.

These scores are awarded for Higher Leaving Certificate papers only.

Minimum Entry Standards which obtained places in 1983.

FT02(D4)	Construction Economics	33
FT03(D3)	Environmental Economics	31
FT04 {	D42M Mechanical Engineering	39
	D42P Production Engineering	
	D42S Structural Engineering	
	D42B Building Services Engineering	

Due to the inclusion of aptitude tests and/or interviews in the selection process it is not possible to give the number of points which were required to gain entry to course FT01 (D1) Architecture in 1983.

Special Cases

The following types of applicants are treated as special cases and are processed separately from the main stream of candidates.

- (a) Students with a craft or trade background.
- (b) Mature students.
- (c) Holders of N.C.E.A. National Certificate or Diplomas or other similar level awards.
- (d) Applicants seeking exemption from one or more years of a course programme on the basis of success in a previous course of study.
- (e) Overseas students.

All such applicants should apply directly to the Dublin Institute of Technology, 14 Upper Mount St., Dublin 2 on the standard DIT application form available on request. When returning the completed form they should indicate clearly that they wish to be considered as a special case and include all documentary evidence available, including examination results, in support of their application.

(a) Trade Students

Students holding the Senior Trade Certificate of the Department of Education with one endorsement in mathematics or a science subject satisfy the minimum entrance requirements for courses in the College which specify a pass in five subjects in the Leaving Certificate Examination as the entrance requirement. Students holding this Certificate with three endorsements in academic subjects are eligible for consideration for entry into related professional/degree level courses provided that they also meet any special entry requirements (e.g. Higher Level Mathematics for Engineering courses). 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 is an acceptable equivalent.

(b) Mature Students

A mature student who is at least 24 years of age or over at the time of enrolment and who does not meet the normal minimum admission requirements may be considered for admission to appropriate courses after attending in person for interview and satisfying the College Authorities as to his/her ability to benefit from the proposed course. Such applicants may be required to sit and pass an entrance test or a suitability test before admission.

(c) Holders of N.C.E.A. National Certificates and Diplomas or Similar Level Awards

Applicants should request the College where they have studied for these awards to forward in confidence to the Admissions Office a full transcript of results (including subjects studied and grades obtained) not later than July 31st. The application will not be processed until this has been received. Only candidates with very high level of attainments have prospects of gaining admission because of the limited number of places available.

(d) Applicants Seeking Exemptions from one or more years of a Course.

As in (c) such applicants should ask their former College to forward in confidence to the Admissions Office a full transcript of previous attainments which it is claimed will justify the exemptions sought. The application will not be processed until this is received.

(e) Overseas Students

Overseas students seeking admission to the College should apply not later than February 1st using the standard application form available on request. When completed this should be forwarded with documentary evidence of qualifications in English (translations should be certified by an appropriate authority) showing subjects passed, levels and grades obtained.

Because of the large number of applications received each year from qualified Irish applicants and the limited number of places available the College regrets that it has to reserve admission of overseas applicants to the small quota of places reserved for those who are sponsored by official agencies linked to Ireland's development aid programme.

METHOD OF APPLICATION

DEGREE LEVEL COURSES IN C.A.O. SCHEME

The following degree level courses are in the CAO scheme. Graduates of these courses are eligible for DIT Diplomas. They are also eligible for degree awards of the University of Dublin (Trinity College).

College Code	CAO Code	Course Description
D1	FT01 ARCHDEG	Architecture
D3	FT03 ENVDEG	Environmental Economics
D4	FT02 ECHDEG	Construction Economics
* D42M	* FT04 ENGDEG	Mechanical Engineering
* D42P		Production Engineering
* D42S		Structural Engineering
* D42B		Building Services Engineering

* These four courses have a common First Year. In accordance with students' choice, performance in First Year College examinations and the number of places available on each course, they will be assigned places on one or other of the courses before entering Second Year.

Applicants for any of the above degree level courses in the CAO scheme should apply directly to:-

The Central Applications Office,
Tower House,
Eglinton Street,
Galway.

It is essential that applicants adhere to the procedures described in the CAO Handbook.

CAO Closing Date: Irish Applicants—1st February 1984 (5.30 p.m.)

Application Fees:

Irish Applicants IR£16.00
Late Application Fee IR£40.00

Note:

- (i) There will be a period of grace for the receipt of Irish applications during which such applications may be accepted at a fee of IR£24.00. This period will last from February 2nd to March 15th inclusive.
- (ii) 'Re-applications' will not be accepted in respect of College degree level courses in CAO scheme.
- (iii) Change of Mind applications and Late applications will not be accepted for course D1(FT01) Architecture.
- (iv) 'Late applications' received in CAO by 1st July 1984 for other Bolton Street courses will be accepted together with normal applications on the basis of merit. 'Late applications' received by the CAO for DIT courses after that date will not be accepted.
- (v) Applicants should note some specific exclusions from the CAO scheme listed on page 13 of the CAO Handbook. Instead these should make direct application to the College.

TECHNICIAN AND OTHER WHOLETIME COURSES

Application for admission to technician and other wholetime courses not in the CAO system, listed below, should be made to Dublin Institute of Technology on the standard form available on request. Documentary evidence of qualifications, if available, should accompany applications.

College Course Code	Course Description
D2A	Construction Technician Diploma
D5A	Geo-Surveying Technician Certificate/Diploma
D8	Architectural Technician Diploma
D40	Preliminary Engineering
D44	Transport Technician Certificate/Diploma in Motor Industry Management
D46C	Civil Engineering Technician Certificate/Diploma
D46H	Building Services Engineering Technician Certificate/Diploma
D46M	Mechanical Engineering Technician Certificate/Diploma
D80	Technician Certificate in Printing

Applicants for any of the above courses, including special cases, should apply by completing the standard application form available on request from:

The Admissions Office,
Dublin Institute of Technology,
14 Upper Mount Street,
Dublin 2.

Completed application forms should be forwarded to DIT by Wednesday 1st February 1984.

The final date for receipt of completed application forms will be 15th March, 1984.

GRANTS, SCHOLARSHIPS AND COURSE FEES

- (a) **Local Authority Grants** Students who register for the Diploma/degree level courses conducted by the College are eligible to apply to the Local Authority where their parents or guardians normally reside for a Higher Education Grant. Information on eligibility conditions and application forms are available from the appropriate Local Authority (County Council or Corporation)
- (b) **VEC Scholarships** Students who register for technician or sub degree courses leading to Certificate or Diploma awards are eligible to apply to the Vocational Education Committee of the area where their parents or guardians normally reside for a VEC Scholarship. Information on eligibility conditions and application forms are available from the appropriate Vocational Education Committee
- (c) **ESF Training Grants** Students who are interested in pursuing the Printing Certificate Course (D80) are eligible to apply for an ESF (European Social Fund) training grant. These are normally advertised in the public press. The Printing Certificate Course is the only programme conducted by the College to which this source of funding applies.

(d) AnCO AnCO, the Industrial Training Authority, offers a number of scholarships and grants each year to those pursuing Technician courses in the Engineering and Constructive fields. Information on the scholarships and grants is available from AnCO, Box 456, Baggot Court, Dublin 2.

(e) Ivan Webb Scholarships The Construction Industry Federation and the Master Builders Association have established a scholarship fund to commemorate the late Ivan Webb, a former Council member of both bodies who was killed in the Stansted air disaster. The object of the scholarship fund is to assist students in pursuing their courses of study. The scholarships which apply to the full-time and part-time Construction Technician Courses in the College are awarded on the following basis: One scholarship valued at £500 to the student attaining the highest place in the results of the year's work and examinations in the first year of the full-time course.

Two scholarships valued at £250 each to the two students attaining the highest places in the results of the year's work and examination in the second year of the part-time course.

(f) BETA Scholarships These are offered by the Engineering Graduates of the College to nominated students in the wholetime degree level Engineering courses who achieve particularly meritorious performances in each year of their courses. The BETA Silver Medal is awarded to the outstanding Engineering graduate each session

(g) Hardship Cases Students who are not successful in obtaining grants or scholarships and are subject to financial hardship may apply through the College to The City of Dublin Vocational Education Committee for a waiver of the Tuition Fees.

(h) Bank Loans The major banks are prepared under normal circumstances to consider applications from students for loans. Enquiries about these should be directed to the banks.

COURSE FEES—Session 1983/84

Irish and other EEC Students

Wholetime Professional/Degree Courses

D1; D42M; D42P; D42S; D42B	£450
D3; D4	£350

Wholetime Technician Courses

D2A; D5A; D8;	
D40; D44; D46C;	£220
D46H; D46M; D80;	

*Overseas Students Non-EEC Countries	£1,200
Late Registration Fee	£30
College Examination Entry Fee	£30

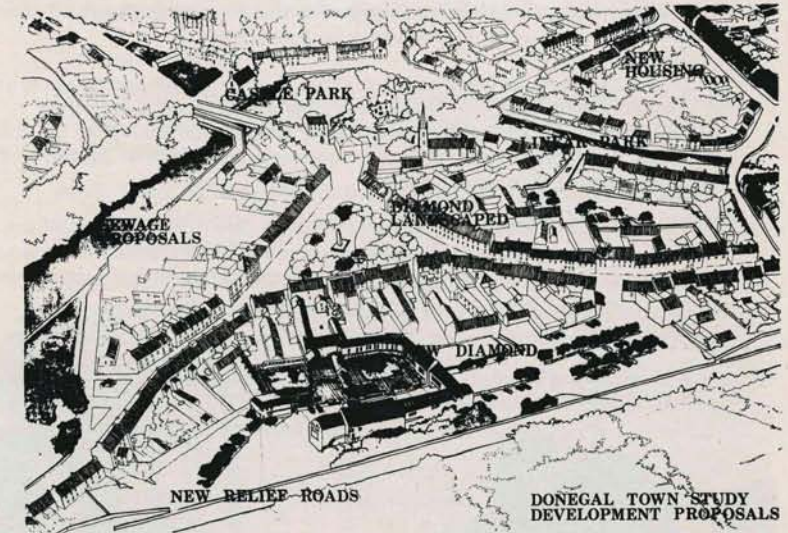
*Students who are enrolled in Colleges through Irish Government Agencies may be admitted on paying the same fees as Irish students. Fees are payable on enrolment and are not refundable except where a class or course does not form. They must be paid before commencing attendance at classes. An enrolment is not transferable from one student to another.

ALL COURSE AND EXAMINATION FEES QUOTED ARE SUBJECT TO REVISION

Admission and Enrolment

Successful applicants for wholetime courses will be notified in writing in early September and invited to register for the course immediately. Students attending for registration and enrolment are required to have the following:

- (a) Letter of admission to the course, or CAO offer notice Part II.
- (b) Proof of examination results in the case of non CAO applicants.
- (c) Two copies of a recent passport type photograph signed on the back.
- (d) Tuition fees for the Session or CAO offer notice Part II showing bank stamp on reverse side, or a letter from a Local Authority or other recognised body confirming that it will be responsible for the payment of tuition fees.



Students undertake a number of community-based projects each year as part of their programmes.

This illustration is taken from a report on a Donegal Town study.

AWARDS AND ACCREDITATION OF COURSES

All wholetime third-level courses conducted by the College (except the Preliminary Engineering Course D40) lead to Dublin Institute of Technology (DIT) Diploma or Certificate awards as appropriate. The majority of these awards are of long standing and all are widely recognised by employers, professional bodies and academic institutions in Ireland and abroad. The courses are reviewed and assessed regularly and their standards are vouched for each year by a distinguished panel of external examiners, some of whom are drawn from other countries to ensure the international recognition of the awards.

In relation to a number of the courses there is a system of parallel awards available to those graduating. In 1975 the City of Dublin Vocational Education Committee and the University of Dublin entered into a formal agreement by which degree awards of the University with Honours classifications are available to graduates of the College who successfully complete appropriate courses in Architecture, Engineering and Surveying. Details of these awards are given under the individual course entries.

Since 1972 National Certificate and Diploma awards have been made to those graduating from the Civil, Environmental and Mechanical Engineering Technician programmes by the National Council for Education Awards (N.C.E.A.). More recently similar arrangements were made in relation to the Geo-Surveying Technician course.

The College attaches high priority to ensuring that its graduates meet the academic requirements of the appropriate professional bodies and periodically it receives visitations from them to accredit the various course programmes.



D1 ARCHITECTURE – DIPLOMA/DEGREE

C.A.O. Code: FT01 This is a five year wholetime course which prepares students wishing to make their careers in Architecture. The course covers a wide range of subjects and aims at synthesis of knowledge gained from these in architectural design projects culminating in a Final Year Thesis in the design of a major building. Students are required to gain professional experience in architectural office practice during the summer vacations and, in this way, support their study and their ability to work individually, or as members of a team.

Entrance Requirements

The minimum educational qualifications required for entry are the Irish Leaving Certificate with passes in six subjects, at least two of which must be at Grade C or higher in the higher level course, or equivalent qualifications. The six subjects must include Mathematics and English. Applicants will be required to undertake an aptitude test and, if successful in this, they are also interviewed as part of the selection process.

Course of Study:

- First Year:** Studio Work, Physics I, Chemistry I, Mathematics & Statistics, Civilisation Studies I, Theory of Architecture, Mechanics, Building Construction I, Trade Practice.
- Second Year:** Studio Work, Building Materials, Building Construction II, Civilisation Studies II, Chemistry II, Physics II, Building Services, Structural Engineering, Theory of Architecture II.
- Third Year:** Studio Work, Environmental Science, Civilisation Studies III, Interior Design, Surveying & Levelling, Theory of Architecture III, Building Construction III, Structural Engineering II, History of Urbanism, Computer Applications.
- Fourth Year:** Studio Work, Economics and Cost Control, Civilisation Studies IV, Structural Engineering III, Building Construction IV, Professional Practice, Urban Studies, Theory of Architecture IV, Computer Applications II.
- Fifth Year:** Studio Work, Economics and Cost Control, Urban Design, Professional Practice II, Structural Engineering IV, Conservation Studies, Building Construction V.

Awards:

Graduates of this course are eligible for the following awards:

Diploma in Architecture (Dublin Institute of Technology)
Bachelor of Architectural Science (University of Dublin)

They are also eligible on graduation for Associate Membership of the Royal Institute of the Architects of Ireland. Following two years of post graduate experience they may take the Institute's examination in Professional competence and thus become Members of the RIAI. Success in the third year of the Diploma in Architecture Course gives exemption from the Intermediate Examinations of the RIAI.

Career Opportunities

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

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

D2A

CONSTRUCTION TECHNICIAN DIPLOMA

This three-year wholetime course prepares students for a Construction Technician Diploma award and is designed to meet the needs of the construction industry for technical staff having a sound understanding of the principles of construction and construction materials, together with a good appreciation of management skills and the economics of the industry.

Entrance Requirements Leaving Certificate with passes in five subjects, including Mathematics and English, or equivalent qualifications.

Course of Study

First Year Mathematics; Science for Technology; Land Surveying I; Accountancy; Construction Technology I; Measurement I.

Second Year Builders' Accounts; Land Surveying II; Estimation and Price Build up; Construction Technology II; Measurement II; Computer Usage.

Third Year Construction Law; Management; Economics; Construction Technology III; Measurement and Specification III; Variations.

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

Awards

Students who successfully complete the course are eligible for the following award:

Construction Technician Diploma (Dublin Institute of Technology).

Holders of the Diploma are entitled to associate Membership of the Chartered Institute of Building following two years experience in building practice. The Institute also grants exemptions in Law and Economics in the Final Part One examination for corporate membership.

The Construction Surveyors Institute admits holders of the Diploma to Licentiate Membership.

Career Opportunities

The Construction Technician Diploma is suitable for those who wish to attain positions relating to production planning, purchasing, quality control, estimating, surveying, inspection and general administration in the Construction Industry. It also provides a suitable background for those who wish to make their careers in building in the public sector (i.e. Central and Local Government).

The majority of the past graduates work in Building firms as Estimators, Building Surveyors, Programmers, Planners, Contract Managers and Site Managers. Many have attained a high level in management where they are now executive directors or managing directors. Other graduates are working for consultants in various capacities.

D3

**C.A.O. Course
Code: FT03**

ENVIRONMENTAL ECONOMICS – DIPLOMA/DEGREE

This is a four year wholetime course which prepares students who wish to make their careers in Environmental Economics and Valuation Surveying. It is designed for those who wish to work as valuers, estate agents, property advisors, developers and planners. The course provides a sound general education in the different aspects of this field, with emphasis on the practice of environmental economics. Students are required to gain professional work experience during the summer vacations and in this way they are introduced to applying their technical knowledge to practical problems, working individually, or within a team.

Entrance Requirements: The minimum educational qualifications required for entry are the Irish Leaving Certificate with passes in six subjects, at least two of which must be at Grade C or higher in higher level papers or equivalent qualifications. The six subjects passed must include Mathematics and English.

Course of Study

First Year: Financial Management, Construction Technology, Economics, Environmental Law, Environmental Science, Mathematics, Professional Development, Valuations.

Second Year: Computer Usage, Construction Technology, Economics, Environmental Law, Land Surveying, Mathematics, Planning, Property Management and Professional Practice, Statistics, Valuations.

Third Year: Construction Technology, Economics, Environmental Law, Investment Analysis, Land Surveying, Planning, Urban Sociology, Valuations. Students of this year undertake a major integrated project.

Fourth Year: Economics, Planning, Taxation, Valuations. In the fourth year each student prepares a major dissertation as part of the final examination.

Awards

Graduates of this course are eligible for the following awards:

Diploma in Environmental Economics (Dublin Institute of Technology)
Bachelor of Science (Surveying) (University of Dublin).

Upon successful completion of a test of professional competence, holders of these awards are eligible for Corporate Membership of the Royal Institute of Chartered Surveyors (General Practice Division). They are exempted from the Intermediate Examination of the Royal Town Planning Institute and are also accepted for entry to appropriate Post-Graduate courses in Ireland and abroad. The course is also recognised by the Irish Auctioneers and Valuers Institute.

Career Opportunities

The qualification is for the profession of Chartered Surveyor, which includes occupations in the field of construction and property management.

Environmental Economists are concerned with the broader areas of land and property development, valuation surveying, estate management and town planning. They are employed in private and public organisations such as property development companies, valuation consultants, local authorities and the national valuation office.

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

CONSTRUCTION ECONOMICS – DIPLOMA/DEGREE

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

The minimum educational qualifications required for entry are the Irish Leaving Certificate with passes in six subjects, at least two of which must be at Grade C or higher in the higher level course or equivalent qualifications. The six subjects must include Mathematics and English.

D4
C.A.O. Course
FT02

Entrance
Requirements:

Course of Study

- First Year:** Construction Technology, Economics, Construction Law, Environmental Science, Mathematics, Professional Development, Measurement and Financial Management.
- Second Year:** Computer Usage, Land Surveying, Statistics, Construction Technology, Measurement, Economics, Financial Management and Construction Law.
- Third Year:** Construction Law, Production Management, Building Economics, Measurement and Specifications, Measurement of Civil Engineering Works, Construction Technology.
- Fourth Year:** Production Management, Building Economics, Contract Administration, Measurement. In the fourth year, each student prepares a major dissertation as part of the final examination.

Awards

Graduates of this course are eligible for the following awards:

Diploma in Construction Economics (Dublin Institute of Technology)
Bachelor of Science (Surveying) (University of Dublin)

Upon successful completion of a test of professional competence, holders of these awards are eligible for corporate membership of the Royal Institute of Chartered Surveyors (Quantity Surveyors Division), and the Construction Surveyors Institute. The Chartered Institute of Building requires graduates to undergo an additional examination in management subjects and satisfy an interview board as to their professional experience before admitting them to membership. Graduates are also accepted for entry to appropriate Post-Graduate courses in Ireland and abroad.

Career Opportunities

The qualification is for the profession of Chartered Surveyor, which includes occupations in the field of construction and property management.

The Construction Economist is concerned with the more detailed aspects of the construction and site development. He may specialise as a quantity surveyor, in which case he analyses building design for purposes of cost planning and, later, detailed tendering and cost control. Alternatively he may practice as a building manager with responsibility for the organisation of contracts, for labour, materials, plant, and negotiations with main and sub-contractors.

The courses and careers in the discipline of Surveying call for an interest and ability in the financial and legal aspects of the construction industry, and in the managerial skills applied to building and property developments. Construction Economics Graduates obtain positions in quantity surveyors offices and in the general construction industry with contractors and developers.

D5A GEO-SURVEYING TECHNICIAN CERTIFICATE / DIPLOMA

This is a three year wholetime course leading to a Technician Certificate award in Geo-Surveying after two years and a Technician Diploma award on completion of an additional year. There is a good balance between lectures and practical work in the programme to ensure a sound understanding of the technology. Project work is a significant feature of the course and it is an important element in the overall assessment.

Entrance Requirements **First Year;** Leaving Certificate with passes in five subjects including Mathematics and English or equivalent qualifications. Preference will be given to applicants with good grades in Mathematics.

Third Year; (Diploma Stage) Applicants are normally expected to have reached Credit or Distinction level in the Certificate Examination at the end of the Second Year in order to qualify for admission into the Third Year. However, those holding a Pass Certificate and at least one year of appropriate post-Certificate experience will be considered.

Course of Study

First Year Mathematics and Statistics; Science including Electronics, Surveying Methods and Practice; Theory and Use of Instruments; Survey Drawing; Computer Programming; Liberal Studies.

Second Year: (Certificate Stage) Instrumentation; Introduction to Photogrammetry and Cartography; Geology; Mathematics: Science including Electronics; Land Surveying; Mine and Engineering Surveying; Computer Programming.

Third Year: (Diploma Stage) Cartography; Land Surveying and Astronomy; Photogrammetry; Engineering Surveying: Mathematics and Statistics; Geophysics and Mine Surveying; Elements of Land Law; Dissertation.

Field camps are conducted at the end of both the First Year and Second Year. In addition students are expected to gain practical experience during the summer vacation.

Awards

Graduates from this course are eligible for the following awards:

- (a) **Technician Certificate / Diploma in Geo-Surveying (Dublin Institute of Technology)**
- (b) **National Certificate / Diploma in Geo-Surveying (National Council for Educational Awards)**

Holders of the Diploma are eligible for membership of the Society of Survey Technicians and for exemptions from the Part I / II Land Survey Examination of the Royal Institution of Chartered Surveyors.

Career Opportunities

The Geo-Surveying Technician may be employed in a wide variety of occupations such as with engineering, land survey and hydrographic consultancies as well as with mining, photogrammetric and construction companies.

The work can be very varied due to the variety of survey sites requiring different techniques and equipment but generally the work involves the

preparation of a plan for a development or the setting out of a design on the ground for construction. The Geo-Surveying Technician should have a preference for an outdoor life and an ability to co-operate and work in a team with other specialists. Sophisticated optical and electronic instruments are commonly used in conjunction with computers and micro-processors by the Geo-Surveying Technician.



ARCHITECTURAL TECHNICIAN DIPLOMA

D8 This is a three-year wholtime course leading to an Architectural Technician Diploma award. It aims to give the student a high standard of architectural and technical drawing and presentation, with a good knowledge of building construction, materials, methods and equipment. The course uses the project system extensively during which students are required to prepare working drawings, details, schedules etc for building work. Lectures in selected subjects such as Building Construction, Structures, Materials and Services are integrated with the projects as far as possible. During the summer vacation period students are encouraged to obtain suitable practical work experience to complement their College training.

Entrance Requirements Leaving Certificate with passes in five subjects including Mathematics and English or equivalent qualifications. Applicants will be required to undertake an aptitude test, and if successful in this they are also interviewed as part of the selection process.

Course of Study

First Year Constructional Projects, Surveying & Levelling, Mechanics & Structures, Building Construction, Graphics & Geometry, History & Theory of Architecture, Building Science & Materials.

Second Year Constructional Projects, Surveying & Levelling, Structures, Building Services, Building Construction, Building Science & Materials, System Building & Prefabrication.

Third Year Constructional Projects, Construction Technology, Building Materials, Structures, Building Contracts, Architectural Practice & Procedure Specifications.

Awards

Graduates from this course are eligible for the following award:

Architectural Technician Diploma (Dublin Institute of Technology)

This Diploma is recognised for Membership by the Institute of Architectural and Associated Technologists, and for Technician Membership by both the Incorporated Association of Architects and Surveyors, and the Royal Institute of the Architects of Ireland. It is also recognised for Associate Membership of the Society of Architectural and Associated Technicians (SAAT) in the U.K., and for full Membership subject to approved post-graduate experience.

Career Opportunities

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

D40

PRELIMINARY ENGINEERING

This is a one-year full-time course commencing each year in mid-Summer. Its main purpose is to prepare students for entry into the first year of the College's Engineering Diploma/Degree Courses D42M; D42P; D42S; D42B.

Entrance Requirements: The Irish Leaving Certificate of the Department of Education with good passes in Mathematics, English and three other subjects, or equivalent qualifications. In practice the typical candidate gaining admission will probably have a number of 'Honours' grades.

Course of Study:

The subjects studied are:- Mathematics, Mechanics, Engineering Technology, Physics, Chemistry, Engineering Drawing, Communications and Liberal Studies.

Examination and Other Requirements:

Students are required to:-

- (a) Take a College examination at the end of the session.
- (b) present laboratory notebooks and project work reports to the satisfaction of the College.

Admission into Professional Engineering Courses:

Students who reach the required standard in the College examination may qualify for admission into the first year of course D42M; D42P; D42S or D42B without further assessment and are notified of this early in July. They do not have to apply through the CAO system.



D42M
C.A.O. Code:
FT04

MECHANICAL ENGINEERING — DIPLOMA / DEGREE

This is a four year wholetime course which prepares students with a suitable aptitude and educational background for a career in Mechanical Engineering. It is a broadly based engineering course over the first two years with specialisation in the third and final years and it requires a good mathematical and analytical ability. Project work is an important element in the programme and commences in the second year. A major project is undertaken in the final year on which both a thesis and oral presentation are required. Laboratory work is undertaken throughout the course. Students are encouraged to obtain suitable summer employment in engineering to complement their studies.

Entrance Requirements:

The minimum educational qualifications required for entry are the Irish Leaving Certificate in six subjects with Grade C or higher on higher level papers in Mathematics and a suitable Science subject (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics and Mechanics) and a pass in four other subjects which must include English, or equivalent qualifications.

Course of Study:

First Year: Mathematics, Mechanics, Engineering Drawing, Engineering Technology, *Physics, Materials Science, Communication and Social Studies, Workshop and Laboratory Work.

Second Year: Mathematics and Computing, Electrical Engineering, Mechanics, Thermodynamics, Fluid Mechanics, Engineering Drawing & Design, Materials Science, Manufacturing Technology, Economic and Social Studies, Workshop and Laboratory Work.

Third Year: Mathematics and Computing, Mechanics of Materials, Mechanics of Machines, Control Engineering, Management Studies, Thermodynamics, Fluid Mechanics, Electrotechnology, Engineering Design and Laboratory Work.

Final Year: Mathematics and Computing, Control Engineering, Mechanics of Materials, Mechanics of Machines, Thermodynamics, Fluid Mechanics, Engineering Management, and Laboratory Work.
A major project is also undertaken.

Awards

Graduates of this course are eligible for the following awards:

Diploma in Engineering (Dublin Institute of Technology)

Bachelor of Science (Engineering) (University of Dublin)

They are eligible for membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate Post-Graduate courses in Ireland and abroad.

Career Opportunities

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

Graduates have prospects of employment in general mechanical engineering or processing firms, with state and semi-state bodies, and research organisations. The range of jobs includes engineering design, maintenance, consulting engineering and plant management. Some also pursue post-graduate studies in Ireland or abroad directly after graduation or they may go abroad to work initially and in this way gain wider or specialised experience.

D42P
C.A.O. Code
FT04

PRODUCTION ENGINEERING – DIPLOMA/DEGREE

This is a four year wholetime course which prepares students with a suitable aptitude and educational background for a career in Production Engineering. It is a broadly based engineering course over the first two years with specialisation in the third and final years in Production Engineering. It requires a good mathematical and analytical ability. Project work is an important element in the programme and commences in the second year. A major project is undertaken in the final year on which both thesis and oral presentation are required. Laboratory work is undertaken throughout the course. Students are encouraged to obtain suitable summer employment in engineering to complement their studies.

Entrance Requirements:

The minimum educational qualifications required for entry are the Irish Leaving Certificate in six subjects with Grade C or higher on higher level papers in Mathematics and a suitable Science subject (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics and Mechanics) and a pass in four other subjects which must include English, or equivalent qualifications.

Course of Study:

First Year: Mathematics, Mechanics, Engineering Drawing, Engineering Technology, Physics, Materials Science, Communication and Social Studies, Workshop and Laboratory Work.

Second Year: Mathematics and Computing, Electrical Engineering, Mechanics, Thermodynamics, Fluid Mechanics, Engineering Drawing & Design, Materials Science, Manufacturing Technology, Economic and Social Studies, Workshop and Laboratory Work.

Third Year: Mathematics and Computing, Mechanics of Materials, Mechanics of Machines, Control Engineering, Management Studies, Electrotechnology, Manufacturing Technology, Materials Science, Industrial Engineering, Product Design and Laboratory Work.

Final Year: Mathematics and Computing, Control Engineering, Manufacturing Technology, Mechanics, Materials Science, Production Management and Laboratory Work.
A major project is also undertaken.

Awards

Graduates of this course are eligible for the following awards:

Diploma in Engineering (Dublin Institute of Technology)

Bachelor of Science (Engineering) (University of Dublin)

They are eligible for membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate Post-Graduate courses in Ireland and abroad.

Career Opportunities

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

Graduates have prospects of employment in manufacturing firms, with state and semi-state bodies and research organisations. The range of jobs includes design, industrial engineering, production and factory management. Some also pursue post-graduate studies in Ireland or abroad directly after graduation or they may go abroad to work initially and in this way gain wider or specialised experience.

D42S

**C.A.O. Code
FT04**

STRUCTURAL ENGINEERING – DIPLOMA/DEGREE

This is a four year wholetime course which prepares students with a suitable aptitude and educational background for a career in structural engineering. It is a broadly based engineering course in the early years, specialising in structural design in the later stages. Project work is a major element in the programme and in the final year a thesis and oral presentation of the special topic studied are required. The course requires a good mathematical and analytical ability. Students are encouraged to obtain suitable summer employment in the industry to complement their studies.

**Entrance
Requirements:**

The minimum educational qualifications required for entry are the Irish Leaving Certificate in six subjects, with Grade C or higher on higher level papers in Mathematics and a suitable Science subject, (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics and Mechanics) and a pass in four other subjects which must include English, or equivalent qualifications.

Course of Study

First Year: Mathematics, Mechanics, Materials Science, Physics, Engineering Technology, Engineering Drawing, Communication and Social Studies, Workshop and Laboratory Work.

Second Year: Mathematics and Computing, Mechanics, Surveying, Fluid Mechanics, Materials Science, Concrete Technology and Geology, Construction and Environmental Technology, Economic and Social Studies, Structural Theory and Design, Laboratory Work.

Third Year: Mathematics and Computing, Surveying, Mechanics of Materials, Design of Structures, Theory of Structures, Municipal Engineering, Management Studies, Soil Mechanics, Laboratory Work.

Fourth Year: Mathematics and Computing, Mechanics of Materials, Theory of Structures, Design of Structures, Highway Engineering, Construction Management, Laboratory Work.
A major project is also undertaken.

Awards

Graduates are eligible for the following awards:

Diploma in Engineering (Dublin Institute of Technology)

Bachelor of Science (Engineering) (University of Dublin)

They are eligible for Membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate Post-Graduate courses in Ireland and abroad.

Career Opportunities

The qualification is appropriate to those wishing to make their careers in Structural Engineering, which is a specialisation of Civil Engineering. Structural Engineers are concerned with the design and construction of buildings, bridges and special structures. They form part of the team of professionals involved with construction projects and in this way work closely with Architects, Quantity Surveyors and Building Services Engineers.

Graduates have prospects of employment with structural design offices, contractors, research organisations, as well as state and semi-state agencies and local authorities. Some pursue postgraduate studies in Ireland or abroad directly after graduating or they may go abroad to work initially and in this way gain wider or special experience.

D42B

**C.A.O. Code
FT04**

BUILDING SERVICES ENGINEERING – DIPLOMA/DEGREE

This is a new four year whole-time course which prepares students with a suitable aptitude and educational background for a career in Building Services Engineering. It is a broadly based course in the early years, and becomes more specialised in Building Services Engineering in the later stages. Project work is a major element in the programme. At third year a joint project with Architectural and Surveying students is undertaken and in final year a specialised thesis or design project is required. The course requires a good mathematical and analytical ability. Students are encouraged to obtain suitable summer employment in the industry to complement their studies.

Entrance Requirements: The minimum educational qualifications required for entry are the Irish Leaving Certificate in six subjects, with Grade C or higher on higher level papers in Mathematics and a suitable Science subject, (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics and Mechanics) and a pass in four other subjects which must include English, or equivalent qualifications.

Course of Study

First Year: Mathematics, Mechanics, Materials Science, Physics, Engineering Technology, Engineering Drawing, Communication and Social Studies, Workshop and Laboratory Work.

Second Year: Mathematics and Computing, Environmental Science, Materials Science, Electrical Engineering, Building Technology, Fluids and Thermodynamics, Building Services Design, Economic and Social Studies, Workshop and Laboratory Work.

Third Year: Mathematics and Computing, Environmental Engineering, Control Engineering, Electrical Engineering, Lighting and Acoustics, Fluids and Thermodynamics, Building Services Design, Management Studies, Workshop and Laboratory Work.

Fourth Year: Mathematics and Computing, Environmental Engineering, Building Services Design, Electrical Services, Building Services Plant, Construction Management, Laboratory Work.
A major project is also undertaken.

Awards

Graduates are eligible for the following awards:

Diploma in Engineering (Dublin Institute of Technology)
Bachelor of Science (Engineering) (University of Dublin)

It is expected that they will also be eligible for membership of the Institution of Engineers of Ireland and acceptable for entry to appropriate Post Graduate courses in Ireland and abroad.

Career Opportunities

The qualification is appropriate to those wishing to make their careers in Building Services Engineering which is concerned with the design and installation of the Mechanical and Electrical Services necessary to ensure the efficient operation of modern buildings. They form part of the team of professionals involved with construction projects and work closely with Architects, Quantity Surveyors and Structural Engineers.

Graduates have prospects of employment with Consulting Engineers, design offices, contracting firms, research organisations, as well as state and semi-state agencies and local authorities. Some may pursue post graduate studies in Ireland or abroad directly after graduating or they may go abroad to work initially and in this way gain wider or specialised experience.

D44

TECHNICIAN CERTIFICATE IN TRANSPORT ENGINEERING – DIPLOMA IN MOTOR INDUSTRY MANAGEMENT

This whole-time course prepares students for entry into the many and varied responsible positions in the Motor Industry. The course leads to the award of a Transport Engineering Technician Certificate at the end of two years study and to the award of the Diploma in Motor Industry Management at the end of a further year's study.

Entrance Requirements: Leaving Certificate with passes in five subjects, including Mathematics and English, and preferably Physics or equivalent qualifications.

Course of Study

First Year: Mathematics, Automobile Engineering, Electricity, Heat Engines, Applied Mechanics, Workshop Technology, Engineering Drawing, Complementary and Management Studies.

Second Year: Mathematics, Automobile Engineering, Automobile Electricity, Engineering Science, Heat Engines, Applied Mechanics, Workshop Technology, Engineering Drawing, Complementary and Management Studies.

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

Examination and Other Requirements

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

Career Opportunities

There are many and varied career opportunities in the automobile and transport industries for those completing these courses including the following: Vehicle Body Repair Supervisor, Garage Service Department Supervisor, Reception Engineer, Vehicle Salesperson, Training Advisor, Vehicle Finance Company Representative etc. Generally they progress fairly quickly to more senior management positions in Garage Management as Transport Managers, etc.

Awards

Graduates of the course are eligible for the following awards:

Technician Certificate in Transport Engineering (Dublin Institute of Technology)
Diploma in Motor Industry Management (Dublin Institute of Technology)

Graduates holding the Diploma are eligible for full exemptions from the examination requirements of the Institute of the Motor Industry and, by taking an extra examination in Road Transport Management, qualify for exemption from the examinations of the Institute of Road Transport Engineers.

CIVIL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA

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

Entrance Requirements

First Year - Leaving Certificate with good passes in Mathematics, a Science subject (preferably Physics), English and two other subjects or equivalent qualifications.

Third Year (Diploma Stage) - Students are expected to reach Credit or Distinction level in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award. Students who hold a Pass certificate and at least one year of appropriate post-Certificate experience may also be considered. The Diploma stage is specialised and is focussed on Structural Design.

Course of Study

First Year

Mathematics, Engineering Science, Mechanics, Drawing, Construction Technology, Surveying and Complementary Studies.

Second Year (Certificate Stage)

Structural Design and Detailing, Mathematics, Engineering Materials, Surveying, Construction Services and Supplies, Planning and Administration, Complementary Studies, Laboratory Work.

Third Year (Diploma Stage)

Theory of Structures, Structural Design, Municipal and Road Engineering, Mathematics and Data processing, Management Studies and a Project.

Examination and Other Requirements

- Students take a College examination at the end of each year which is moderated by the National Council for Educational Awards, and
- They are required to submit reports on their project and laboratory work.

Awards

Graduates of this course are eligible for the following awards:

- Technician Certificate/Diploma in Civil Engineering (Dublin Institute of Technology)**
- National Certificate/Diploma in Engineering (Civil) (National Council for Educational Awards)**

Recognition by Professional Bodies

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

Career Opportunities

The qualification is appropriate to those wishing to enter engineering as a Technician specialising in Civil Engineering. Civil Engineering Technicians may be involved in the design and construction of buildings, bridges, roads, water supply, sanitary services, etc. They may also be involved in drafting, surveying, laboratory and field work, and the planning and supervision of contracts.

Graduates have prospects of employment in contracting firms, engineering design offices, state and semi-state bodies, and research organisations engaged in Civil Engineering work.



BUILDING SERVICES ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA

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

Entrance Requirements

First Year - Leaving Certificate with good passes in Mathematics, a Science subject (preferably Physics), English and two other subjects or equivalent qualifications.

Third Year (Diploma Stage) - Students are expected to reach Credit or Distinction level in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award.

Students who hold a Pass Certificate and at least one year of appropriate post-Certificate experience may also be considered.

Course of Study

First Year

Mathematics, Mechanics, Engineering Science, Drawing, Instrumentation and Materials, Building Construction and Services, and Complementary Studies.

Second Year

Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies, Environmental Engineering Design, Environmental Plant, Lighting Acoustics and Water Services.

Third Year

Mathematics, Complementary Studies, Electrotechnology and Controls, Process Plant Technology I, Environmental Engineering, Environmental Plant Design, Ancillary Services, and Project Work.

Examination and Other Requirements

(a) Students take a College examination at the end of each year, which is moderated by the National Council for Educational Awards, and
(b) they are required to submit a report on their Summer vacation training each year and also reports on their project and laboratory work.

Awards

Graduates of this course are eligible for the following awards:

(a) **Technician Certificate/Diploma in Environmental/Building Services Engineering (Dublin Institute of Technology).**

(b) **National Certificate/Diploma in Engineering (Building Services) (National Council for Educational Awards).**

Those who have successfully completed the Certificate stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma

Stage are at Technician Engineer level and can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training.

Career Opportunities

The qualification is appropriate to those wishing to enter engineering as a technician specialising in Environmental/Building Services Engineering. Environmental/Building Services Engineers are involved with the design and installation of all types of building services such as heating, ventilation, air-conditioning, water and electrical services. They are also involved with the drafting, planning and management of projects and the maintenance of plant and equipment.

Graduates have prospects of employment with mechanical services contractors and in design offices. The range of jobs includes engineering design, maintenance engineering, consulting engineering and technical sales.

MECHANICAL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA

This course prepares students for a Technician Certificate award in Mechanical Engineering at the end of two years and for a Technician Diploma award at the end of a further year. The students attend the College for eight months each year commencing in September, and they spend the Summer period getting practical experience in industry, design offices etc. The course requires an analytical ability to understand and solve technical problems.

Entrance Requirements

First Year - Leaving Certificate with good passes in Mathematics, a Science subject (preferably Physics), English and two other subjects or equivalent qualifications.

Third Year (Diploma Stage) - Students are expected to reach Credit or Distinction level in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award.

Students who hold a Pass Certificate and at least one year of appropriate post-Certificate experience may also be considered. The Diploma stage is specialised. At present two options are offered – Manufacturing Technology or Process Plant.

Course of Study

First Year

Mathematics, Engineering Science, Drawing, Mechanics, Workshop Technology, Instrumentation and Materials, and Complementary Studies.

Second Year

Mathematics, Thermal and Fluid Plant, Electrotechnology and Controls, Complementary Studies, Mechanics, Drawing & Design, Production Technology, and Laboratory Work.

Common subjects: Mathematics, Electrotechnology and Controls, Complementary Studies

Manufacturing Option: Manufacturing Technology I & II, Manufacturing Management, Manufacturing Design, Mechanics and Project Work.

Process Option: Materials Science, Process Plant Technology I & II, Process Plant Design & Management and Project Work.

Examination and Other Requirements

(a) Students take a College examination at the end of each session, which is moderated by the National Council for Educational Awards.

(b) They are required to submit a report on their industrial training each year and also reports on their Project and laboratory work.

Awards

Graduates of this course are eligible for the following awards:

(a) **Technician Certificate/Diploma in Mechanical Engineering (Dublin Institute of Technology)**

(b) **National Certificate/Diploma in Engineering (Process or Manufacturing) (National Council for Educational Awards)**

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

Career Opportunities

The qualification is appropriate to those wishing to enter Engineering as a Technician specialising in Mechanical Engineering. Mechanical Engineers and Technicians are concerned with the design, manufacture and installation of all types of equipment ranging from individual items to complete factories or process plants. They may also be involved in drafting, detailed planning and management of projects and with plant maintenance.

Graduates have prospects of employment in manufacturing or processing firms, research organisations, as well as state and semi-state agencies.

CERTIFICATE IN PRINTING TECHNOLOGY/DIPLOMA IN PRINTING MANAGEMENT

This two year wholetime course leads to a Technician Certificate in Printing Technology award on the basis of successful examination results. The course prepares students with a suitable aptitude and educational background for a career in Printing or Printing Management.

As the course is at present included amongst the programmes approved under the European Social Fund (ESF) scheme students may qualify for a weekly allowance and free tuition while attending it. Further details of the ESF scheme are available from the College Secretary on request.

Entrance Requirements:

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

Course of Study

First Year:

Design for Printing, Graphic Reproduction, Origination, Printing Processes, Print Finishing, Applied Science, Mathematics, Communications and General Studies.

Second Year:

Design for Printing, Origination Technology, Graphic Reproduction Technology, Print Finishing Technology, Computer Studies, Communications and General Studies, Mathematics, Applied Science.

Awards

Graduates of this course are eligible for the Technician Certificate in Printing Technology (DIT) Students may also take appropriate examination of the British Printing Industries Federation leading to the Certificate in Printing Administration (B.P.I.F.). Successful graduates are also eligible to become Associate Members of the Institute of Printing (British).

The College has under consideration the extension of this course by a further year of full-time study leading to a Diploma award.

Career Opportunities

Many of the graduates to date have found positions in printing, publishing or advertising firms as estimators, cost accountants, production planners, or sales personnel while others become technical representatives for print materials and equipment suppliers.

WHOLETIME COURSES OFFERED BY OTHER DIT COLLEGES

DEGREE LEVEL COURSES IN C.A.O. SCHEME

CAO Code	Course Description	College	University of Dublin Degree
FT21	Electrical Engineering	Kevin Street	B.Sc.(Eng.)
FT22	Applied Sciences	Kevin Street	B.Sc. (Applied Sciences)
FT23*	Human Nutrition	Kevin Street	B.Sc.(Human Nutrition)
FT41	Marketing	Parnell Square	B.Sc. (Management)
FT51	Business Studies	Rathmines	B.Sc (Management)
FT61	Hotel & Catering Management	Cathal Brugha St.	B.Sc. (Management)

*This course is conducted conjointly by the College of Technology, Kevin Street and Trinity College Dublin.

OTHER PROFESSIONAL COURSES

Applications to DIT Admissions Office

Course	College	Award
Ophthalmic Optics	Kevin Street	DIT Diploma
Environmental Design	Parnell Square	DIT Diploma
Visual Communication Design	Parnell Square	DIT Diploma
Environmental Health	Cathal Brugha St.	DIT Diploma
Advanced Communications	Rathmines	DIT Diploma
Art & Design	Parnell Square	DIT Diploma

TECHNICIAN AND OTHER ADVANCED LEVEL COURSES

Applications to DIT Admissions Office

Course	College	Award
Bakery		
Bakery Prod. & Manag.	Kevin Street	DIT Cert/Diploma
Business & Administration Studies		
Business Studies	Rathmines	DIT Cert/Diploma
Marketing	Parnell Square	DIT Cert./Diploma
Marketing Administration	Parnell Square	DIT Diploma
Advertising	Rathmines	DIT Certificate
Public Relations	Rathmines	DIT Certificate
Journalism	Rathmines	DIT Certificate
Estate Agency & Auct.	Rathmines	DIT Examination
Accounting Technician	Rathmines	DIT Examination
Professional Bodies		
Foundation Course (Admin./Company Sec./Accounting)	Rathmines	External Examination
Transport	Rathmines	DIT Certificate

Computer Science & Programming

Commercial Computer Prog.	Rathmines	DIT Certificate
Computer Science	Kevin Street	DIT Diploma

Design

Display	Parnell Square	DIT Certificate
Model Making	Parnell Square	DIT Certificate
Media Studies	Parnell Square	DIT Certificate

Engineering

Electrical Engineering	Kevin Street	DIT Diploma
Marine Radar Maintenance	Kevin Street	MRM Certificate
Marine Radio-Elec. Officer	Kevin Street	MRG Certificate
Radio Electronics	Kevin Street	DIT Diploma
Telecommunications Eng.	Kevin Street	DIT Diploma

Environmental Studies

Environmental Management	Parnell Square	DIT Diploma
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Hotel & Catering, Tourism

Hotel Management	Cathal Brugha St.	DIT/NCEA Diploma
Catering Management	Cathal Brugha St.	DIT/NCEA Diploma
Hotel & Catering Supervision	Cathal Brugha St.	DIT/NCEA Cert.
Hotel Reception	Cathal Brugha St.	DIT Certificate
Tourism	Cathal Brugha St.	DIT Certificate

Legal Studies

Legal Studies	Rathmines	DIT Diploma
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Science & Related Fields

Applied Sciences:		
Physics	Kevin Street	DIT Diploma
Biology	Kevin Street	DIT Diploma
Chemistry	Kevin Street	DIT Diploma
Food Technician	Cathal Brugha St.	DIT Certificate
Food Technology	Cathal Brugha St.	DIT Diploma
Food Processing	Cathal Brugha St.	DIT Certificate
Medical Laboratory Tech.	Kevin Street	DIT Cert./Diploma

Social Studies:

Pre-School Care	Cathal Brugha St.	DIT Certificate
Child Care	Cathal Brugha St.	DIT/NCEA Diploma
Home Management	Cathal Brugha St.	DIT Certificate
Preliminary Social Studies	Cathal Brugha St.	DIT Certificate.

APPLICATION PROCEDURES

(a) DEGREE LEVEL COURSES INVOLVED WITH CAO

Application forms and further details of application procedures can be obtained by writing (preferably on a postcard) to:

The Central Applications Office
 Tower House
 Eglinton Street
 Galway.

Completed CAO application forms should be forwarded to the CAO
 Closing Date: Irish applicants 1st February, 1984.

(b) TECHNICIAN AND OTHER HIGHER LEVEL DIT WHOLETIME COURSES NOT INVOLVED WITH CAO

Application forms and further details of application procedures can be obtained by writing (preferably on a postcard) to:

The Admissions Office,
 Dublin Institute of Technology,
 14 Upper Mount Street,
 Dublin 2.

Completed DIT application forms should be forwarded to the Dublin Institute of Technology by **Wednesday, 1st February, 1984**. The final date for receipt of completed application forms will be Thursday, 15th March, 1984 (5.00 p.m.).

(c) PART-TIME DAY AND EVENING COURSES

The College offers a wide range of part-time day and evening courses. Details of these are available in the general College prospectus and application for them is made by attending the College in person on scheduled dates in September.

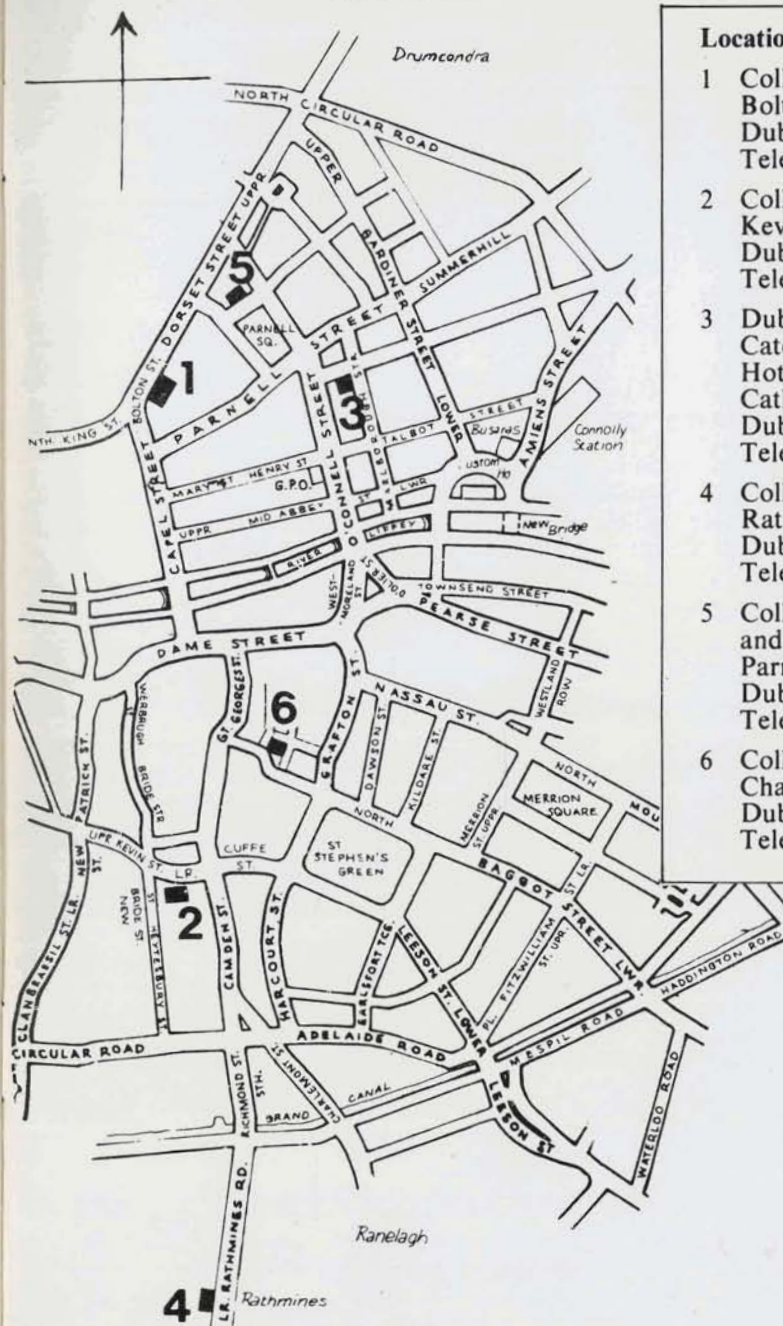
Enquiries

Specific enquiries about courses may be directed to:

The Admissions Office
 College of Technology
 Bolton Street
 Dublin 1.
 Tel. Dublin 01-749913

The information in this booklet is intended as a guide for persons seeking admission to the College and shall not be deemed to constitute a contract or the terms thereof between the College and a student or any third party.

DUBLIN INSTITUTE OF TECHNOLOGY CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE THIRD LEVEL INSTITUTIONS



Location of College shown

- 1 College of Technology,
 Bolton Street,
 Dublin 1.
 Telephone 749913
- 2 College of Technology,
 Kevin Street,
 Dublin 8.
 Telephone 757541
- 3 Dublin College of
 Catering, and
 Hotel Management,
 Cathal Brugha Street,
 Dublin 1.
 Telephone 747886
- 4 College of Commerce,
 Rathmines,
 Dublin 6.
 Telephone 970666
- 5 College of Marketing
 and Design,
 Parnell House,
 Dublin 1.
 Telephone 742721
- 6 College of Music,
 Chatham Row,
 Dublin 2.
 Telephone 778903