

1991

## Fulltime Courses 1991-92

City of Dublin Vocational Education Committee

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City of Dublin Vocational Education Committee  
Dublin Institute of Technology

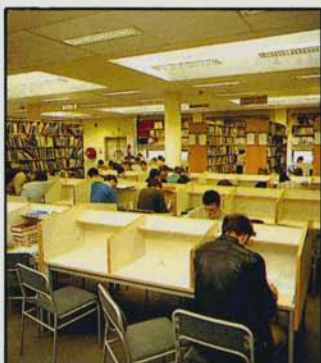
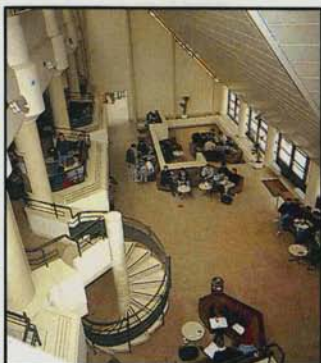


**FULL-TIME COURSES 1991/92**

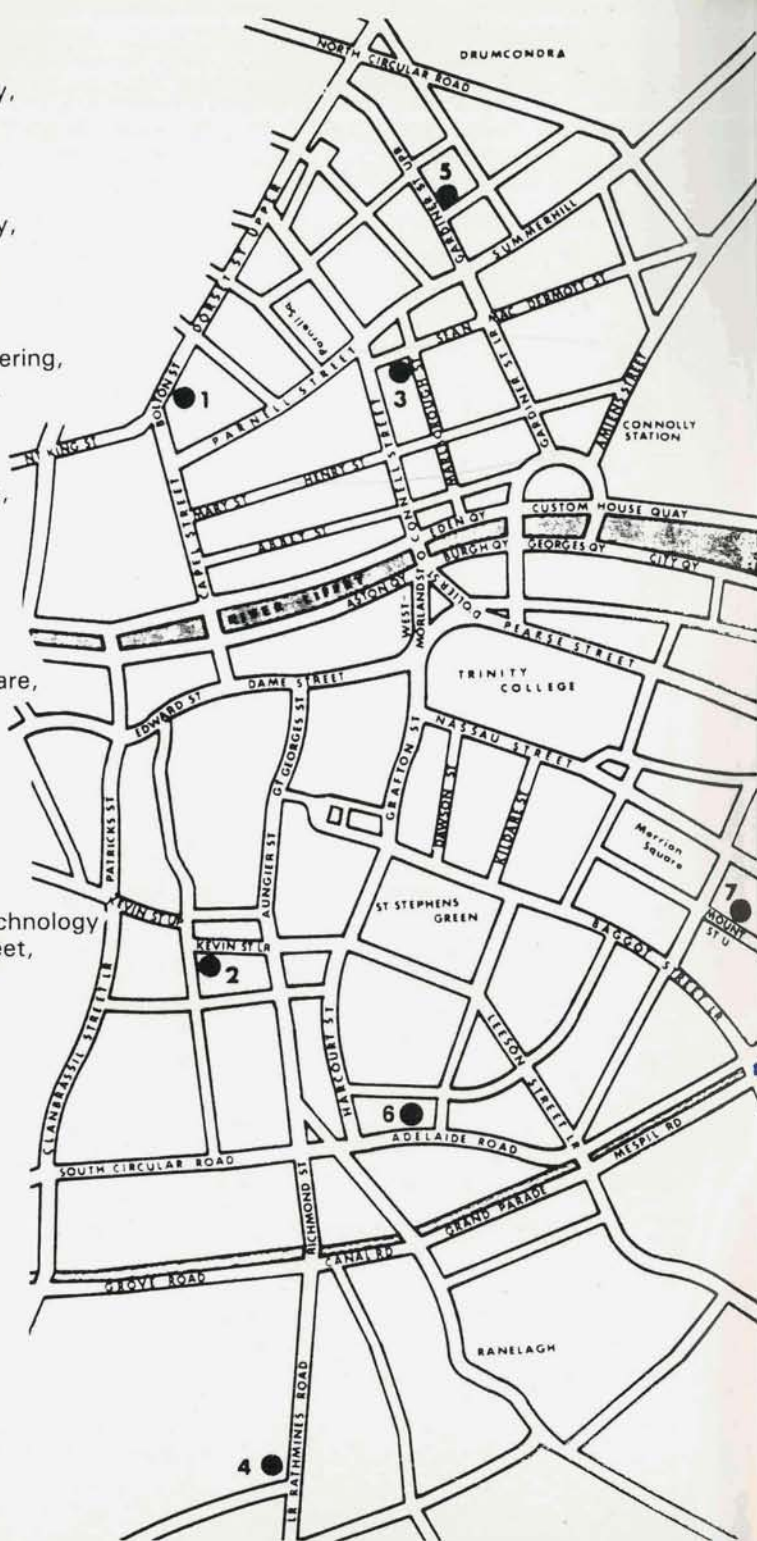
COLLEGE OF TECHNOLOGY

**BOLTON STREET**

DUBLIN 1



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2. College of Technology,  
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## FULL-TIME COURSES 1991/92

CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE  
COISTE GAIRM-OIDEACHAIS CHATHAIR ÁTHA CLIATH

DUBLIN INSTITUTE OF TECHNOLOGY  
INSTITIÚID TEICNEOLAÍOCHTA BHAILE ÁTHA CLIATH

**COLLEGE OF TECHNOLOGY  
BOLTON STREET  
DUBLIN 1**

**COLÁISTE TEICNEOLAÍOCHTA  
SRÁID BHOLTÚIN  
BAILE ÁTHA CLIATH 1**

**Principal:**  
**MICHAEL O'DONNELL**  
BE, BComm, MEconSc, Eur Ing, CEng, FIEI

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### DEGREE LEVEL COURSES PROCESSED THROUGH THE CAO

College Course Code		
B101	Architecture — Diploma/Degree (CAO Code FT01)	26
B110	Property Economics (Valuation Surveying) Diploma/Degree (CAO Code FT03)	29
B111	Construction Economics (Quantity Surveying) Diploma/Degree (CAO Code FT02)	31
B121	Building Services Engineering Diploma/Degree (CAO Code FT04)	40
B122	Mechanical Engineering Diploma/Degree (CAO Code FT04)	41
B123	Production Engineering Diploma/Degree (CAO Code FT04)	43
B124	Structural Engineering Diploma/Degree (CAO Code FT04)	45

## CERTIFICATE, DIPLOMA AND OTHER COURSES PROCESSED THROUGH THE CAS LIST 2

College Course Code		
B102	Architectural Technician Diploma (CAS Code DT01)	27
B114	Construction Technician Certificate and Diploma (CAS Code DT02)	32
B115	Geo-Surveying Technician Certificate and Diploma (CAS Code DT03)	33
B116	Auctioneering Valuation and Estate Agency Certificate and Diploma (CAS Code DT04)	36
B120	Preliminary Engineering Course (CAS Code DT45)	39
B126	Civil Engineering Technician Certificate and Diploma (CAS Code DT41)	46
B127	Building Services Engineering Technician Certificate and Diploma (CAS Code DT42)	48
B128	Mechanical Engineering Technician Certificate and Diploma (CAS Code DT44)	50
B130	Technician Certificate in Printing and Diploma in Printing Management (CAS Code DT13)	54
B131	Graphic Reproduction Technology Diploma (Application for admission to this course must be made directly to the College.)	55
B150	Technician Certificate in Transport Engineering/Diploma in Motor Industry Management (CAS Code DT46)	52
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## CALENDAR

### For Applicants to College Wholetime Courses in the 1991/92 Session

- 1991**
- February 1st** Closing date for receipt of applications from EC applicants by CAO/CAS at ordinary fee of £18. Overseas applicants must apply by 15th December 1990 and pay a fee of £36.
- March 31st** Closing date for EC late applicants at £26 fee. Latest date for completing course choice columns on page 2 of CAO/CAS application form, if choice has been deferred when submitting application form.
- August 1st** Final closing date for EC late applicants for College courses paying £40 fee. Final date for availing of change of mind facility in respect of course choices where allowed.
- August 26th** Expected date for issue of First Round offers.
- September 6th** Expected final date for acceptance of First Round offers.
- September 9th** Expected date for issue of Second Round Offers.
- September 16th** Courses are expected to commence during the week of September 16.

#### NOTE:

- (i) Applicants should read carefully the CAO/CAS Joint Handbook 1991 before submitting an application.
- (ii) Applicants note that *late* applications are not accepted for courses FT01 and DT01. Neither may these be introduced into an application for the first time after February 1st 1991.
- (iii) 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 on the terms thereof between the College and a student or any third party. The College reserves the right to change or modify any of the courses or information relating to them or other aspects as outlined in this publication without prior notice.

#### City of Dublin Vocational Educational Committee

Administrative Offices: Town Hall, Ballsbridge, Dublin 4  
Phone (01) 680614  
Chief Executive Officer: W. J. Arundel, BComm, HDip

## FOREWARD BY THE PRINCIPAL



This booklet has been prepared to provide you with information about the wholetime courses offered by the College of Technology, Bolton Street, Dublin 1 and how to apply for them. We are conscious of the difficulties facing young people in deciding on careers and selecting the most suitable courses in order to prepare for them. We hope that you will find the booklet informative and helpful. We encourage you to consider carefully the course options that we have to offer in this College.

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

There are many things one could say about the College and its programmes which may interest you. It is a technological education institution with the prime objective of assisting young people to acquire the knowledge and expertise necessary for fulfilling and rewarding careers. Our well qualified and experienced staff and extensive range of laboratories, work-shops, library and other facilities provide the basis for a vigorous and lively academic community. The College has a national and international reputation and the record of achievements of its graduates is something of which it is justifiably proud. If you decide to apply and are admitted we hope that you will enjoy your stay with us.



Michael O'Donnell



*The Minister for Education formally opening the major extension to the College in September 1989. Also included are Councillor Pat Carey, Chairman CDVEC; Alderman Sean Haughey, Lord Mayor of Dublin; Mr. Michael O'Donnell, College Principal; Mr. W. J. Arundel, CEO OF CDVEC and Mr. Bertie Aherne, TD, Minister for Labour.*

## INTRODUCTION TO THE COLLEGE

### Historical Note

In 1887 the first City of Dublin Technical School was established in Kevin Street and from that initiative the present system of schools and colleges developed. The College in Bolton Street was opened in 1911 to provide education in Building, Engineering and Printing, lines of specialisation which have continued down to the present day. The first whole-time day courses commenced in 1920 with the inauguration of an apprentice Scholarship Scheme. With the establishment of an Irish Government, technical education came within the aegis of the Department of Education. A Commission which was established in 1926 made recommendations for developments which led to the Vocational Education Act of 1930. The system of schools and colleges expanded in succeeding decades under the City of Dublin Vocational Education Committee, and the Bolton Street College was enlarged with additional buildings in 1958, 1963, 1981 and 1987. The development of professional and technician courses began in the 1940's and over the years these gained the recognition of professional and academic bodies in Ireland and other countries.

### Dublin Institute of Technology

In 1978 the Dublin Institute of Technology was established by the Vocational Education Committee to co-ordinate the work of its six colleges. Bolton Street is the largest of the colleges; the other constituent Colleges are the College of Technology Kevin Street, the College of Commerce, the Dublin College of Catering, the College of Music and the College of Marketing and Design. Its work and awards have attained wide national and international recognition from academic and professional bodies and other appropriate employer organisations.

Over 1,500 teaching staff are primarily concerned with teaching 22,000 students attending whole-time and part-time third level and apprentice courses. The Institute is involved in research and development, and there is a growing demand for advisory and consultative services.

The Colleges of the Institute have played a leading role in the evolution of technical and technological education in Ireland and continue to be involved with the latest developments in technology and commerce, maintaining their commitment to industrial, economic and cultural development.

### College of Technology Bolton Street

The College provides a wide range of courses on a full-time, part-time evening and block release basis, as well as some short courses. It has a total teaching establishment of 350 and now caters for 7,000 students. The College aims to provide an integrated system of education from craft apprenticeship to degree and professional levels in the sectors for which it has special responsibility. These include the Construction, Engineering, Printing and Transport industries and it plays an important national role in responding to their various needs.

### College Council

The general direction of the College is under the control of the College Council which is a sub-committee of the V.E.C. The Council consists of nine members nominated by the V.E.C., The Principal of the College, a member of academic staff elected by the staff and a student member nominated by the students' union. Its terms of reference include approval of annual estimates of expenditure, approval of the range of courses offered, staff and student matters, responsibility for buildings and other facilities, and generally examining any major proposals for the development of the College.

### College Executive Board

The College Executive Board helps in co-ordinating the work of the College and its academic programmes. It is comprised of the Principal, Heads of Schools, and Heads of Departments.

### College Academic Board

The Academic Board has responsibility for approving and monitoring courses leading to College/DIT awards, including examinations and student admission requirements. It also has an important role in promoting research and developing College academic policy. Its membership is comprised of the Principal, Heads of Schools, Heads of Departments and other nominated members.

## Departmental Boards

Departmental Boards are concerned with the development of courses and facilities at Departmental level. There are Course Committees to advise on the development of major courses. There are also Advisory Committees for major disciplines which assist the College in keeping courses abreast of developments in their professional and industrial fields.

## Recent College Developments

A major new extension to the college was completed during the 1987/88 session significantly enhancing its accommodation and facilities. This includes a new library with seating for 450 students; a major new restaurant with similar seating capacity, much improved student facilities including social areas, student shop, bank and first aid room; a large lecture theatre with 320 seats; and a range of drawing studios, classrooms, staff offices and other accommodation.

Further enhancements were implemented during the 1988/89 session including the refurbishment of parts of the College vacated following the transfer of some activities to the Extension. These include a new staff common room, new Advanced Manufacturing and Building Science laboratories and further development of the College's computing facilities which are linked through high speed data circuits to a major central DIT computing facility located at the DIT offices at 14 Upper Mount Street.



*A view of the College's new Auditorium.*

## APPLICATION PROCEDURES FOR 1991 ENTRY

Significant changes are being introduced into the application procedures for entry into wholetime third-level courses in this country in 1991, with the objective of eliminating the necessity to make multiple applications as heretofore to the CAO, DIT, individual RTCs etc. and paying multiple application fees.

In 1976 the CAO (Central Applications Office) was established to process applications centrally for admission to undergraduate courses in universities and other colleges in an efficient and equitable manner. DIT has used the CAOs services for a number of years to process applications for all its degree courses while it operated a separate DIT applications system for its other courses.

### Establishment of CAS

A new organisation was established in 1990 known as CAS (Central Admissions Service) for the purpose of dealing with applications to the Irish third-level technological Colleges on a centralised basis. It has a membership which is representative of the six Dublin Institute of Technology (DIT) Colleges, the nine Regional Technical Colleges, Limerick College of Art, Commerce and Technology (CoACT), and the Crawford College of Art and Design.

### Joint CAO/CAS Application Form

The CAO and CAS organisations have now entered into an arrangement whereby applicants, using a single application form, may in 1991 and subsequent years choose from the entire range of courses in the CAO and CAS systems. There are three sections on the application form and using these an applicant may choose

- (a) up to ten courses in order of preference from the courses included under the title 'CAO List' in the CAO/CAS handbook (which includes all DIT Degree courses).
- (b) up to three courses in order of preference from the courses included under the title 'CAS List 1-RTC Degrees' in the CAO/CAS handbook.
- (c) up to ten courses in order of preference from the courses included under the title 'CAS List 2 Diploma/Certificate/Other'. This includes all wholetime Certificate, Diploma and non degree courses offered by the DIT and other technological colleges.

The joint CAO/CAS applications system will be administered from the CAOs premises at Tower House, Eglinton Street, Galway. Copies of the CAO/CAS Handbook which provides all relevant information about the CAO/CAS joint application system and the courses which are included in it are available on request as are Application Forms.

### Application Fees

Irish and other EC Applicants (ordinary fee)	£18
Late applications (received between 2 February and 31 March)	£26
Late applications (received after 31 March)	£40
Overseas applicants (ordinary fee)	£36

### Closing Dates

Irish and other EC Applicants	1 February 1991
Overseas Applicants	15 December 1990

**Due to the inclusion of Aptitude Tests and other assessments as part of the selection process, applications received after 1 February 1991 cannot be considered for the Architectural courses, FTO1 in the CAO List, and DTO1 in the CAS List 2.**

Late applications will **not** be considered from Overseas applicants if received after 15 January 1991.

With the exception of the two Architectural courses referred to above late applications in respect of all other courses offered by the College and included in the CAO and CAS lists will be considered from Irish and other EC applicants if received by 1 August, 1991.

### Postponement of Course Choice

When submitting their application forms applicants may postpone entering their course choices in any or all of the three sections of the application form until 31 March 1991. If they avail of this provision they must then communicate their course choices to the CAO/CAS office before 31 March at the latest.

After an application is submitted an applicant may change his/her course choices as often as he/she wishes up to 1 August.

These facilities are **not** available to applicants for the Architectural courses, FTO1 in the CAO List, and DTO1 in the CAS List 2 for the reasons already indicated in a previous section.

### Further Information

Further information about the Joint CAO/CAS Application System for 1991 entry are given in the CAO/CAS Handbook and on the Application Form, both of which are available from:

CAO / CAS,  
Tower House,  
Eglinton Street,  
Galway.  
Tel: 091 63318/63269  
Fax: 091 62344  
Telex: 50061

## COLLEGE DEGREE LEVEL COURSES IN CAO LIST

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

College Course Code	CAO Course Code	Course Description	Course Duration (Years)
B101	FTO1 ARCHGDEG	Architecture	5
B110	FTO3 EECNDEG	Property Economics	4
B111	FTO2 ECNDEG	Construction Economics	4
*B121	*FTO4 ENGDEG	Building Services Eng. Mechanical Engineering Production Engineering Structural Engineering	4
*B122			4
*B123			4
*B124			4

\*These four courses have a common first Year. The allocation of Second Year places on one or other of the courses will be in accordance with the students choice and subject to availability. The final assignment of places in the Second Year of the courses will be at the discretion of the Department of Engineering Technology in the College.

## COLLEGE CERTIFICATE/DIPLOMA AND OTHER COURSES IN CAS LIST 2

College Course Code	CAS Course Code	Course Description	Course Duration (Years)
**B102	DT01 ARCTEC	Architectural Technician Diploma	3
**B114	DT02 CONSTR	Construction Technician Certificate/Diploma	2/3
**B115	DT03 GEOSUR	Geo-Surveying Technician Certificate/Diploma	2/3
**B116	DT04 AUCVAL	Auctioneering Valuation & Estate Agency Certificate/Diploma	2/3
B120	DT45 PRLNG	Preliminary Engineering	1
**B126	DT41 CIVENG	Civil Engineering Technician Certificate/Diploma	2/3
**B127	DT42 BSVENG	Building Services Engineering Technician Certificate/Diploma	2/3
**B128	DT44 MECENG	Mechanical Engineering Technician Certificate/Diploma	2/3
**B130	DT13 PRINTG	Printing Technician Certificate/Diploma in Printing Management	2/3
**B150	DT46 TRNENG	Transport Eng. Technician Certificate/Diploma in Motor Industry Management	2/3
**B171	DT05 BLDMNT	Buildings Maintenance Technician Certificate	2

\*\*ESF Grants may be available for students pursuing these courses.



## EDUCATIONAL REQUIREMENTS AND SELECTION PROCEDURES FOR DEGREE COURSES IN 1991

### EDUCATIONAL REQUIREMENTS

(a) Courses FT01, FT02, FT03: Irish Leaving Certificate with passes in six subjects, two of which must be at Grade C or higher on higher level papers or an acceptable equivalent qualification. The six subjects must include Mathematics and English.

(b) Course FT04: Irish Leaving Certificate with passes in six subjects including Grade C or higher on higher level papers in Mathematics and one of the following subjects: Physics, Chemistry, Physics with Chemistry, Applied Mathematics, Construction Studies and Engineering or an acceptable equivalent qualification. The six subjects must also include English.

### SELECTION PROCEDURES

Applicants are ranked in order of educational score merit in accordance with the points system shown below, allocated to the results of six subjects obtained in one or more Leaving Certificate examinations, having regard to the relevant course entry requirements. Obligatory subjects are scored together with the best three or four other subjects as appropriate in determining the overall score. Generally demand exceeds the number of places available and qualifications above the minimum are required.

- (i) In the case of the Architectural course FT01/B101 applicants are required to take an aptitude test in March / April. Applicants who demonstrate a particular suitability in this test are invited to an interview assessment. A maximum of 10 points are awarded for the applicant's performance in the aptitude test and up to a further 10 points for the interview assessment. The results of the aptitude test and the interview assessment are combined with the total educational points scored in the six subjects as specified above to produce an overall rating.
- (ii) In the case of the professional/degree level courses in Surveying and Engineering (i.e. FT02/B111, FT03/BT110, FT04/B121-124) the selection is based on the educational score in six subjects as already described.

### DIT POINTS SYSTEM FOR DEGREE COURSES IN 1991\*

The following table shows the points system which will be used in 1991 to calculate educational scores for all the College's wholetime degree courses except FT04 which offers an enhanced points rating for certain subjects (see below).

Points	LEAVING CERTIFICATE	
	Higher	Ordinary
9	A	—
7	B	—
6	C	—
5	—	A
4	D	—
3	—	B
2	—	C
1	—	D

\* Subject to review for 1992 entry.

An Enhanced Points Weighting is applied to certain subjects for the Engineering Courses FT04 but only in respect of Higher Leaving Certificate Papers as follows:

The following points scores were awarded to grades A to C on the Higher Leaving Certificate paper in Mathematics: A, 14; B, 12; C, 10.

The following points scores were awarded to grades A to C on the Higher Leaving Certificate papers in Physics, Chemistry, Physics with Chemistry, Applied Mathematics, Construction Studies and Engineering: A – 11, B – 9, C – 7;

### Minimum Entry Points for these courses in 1990

FT02	B111	Construction Economics	36 points		
FT03	B110	Property Economics	**35 points		
FT04	}	B121	Building Services Engineering	30 points	
		B122			Mechanical Engineering
		B123			Production Engineering
		B124			Structural Engineering

Due to the inclusion of aptitude tests and interviews in the selection process it is not feasible to give the number of points which were required to gain entry to course FT01 (B101) Architecture in 1990.

\*\*Not all applicants who scored this number of points obtained places in 1990.

### QUALIFICATIONS OTHER THAN THE IRISH DEPARTMENT OF EDUCATION LEAVING CERTIFICATE

The College gives consideration to qualifications other than the Leaving Certificate as meeting the entry requirements for its courses (such as the GCE or other qualification of equivalent standard). In accordance with a decision already announced, the NUI Matriculation is not acceptable as an appropriate DIT entry qualification in 1991.

Applicants for degree level courses may present a General Certificate of Education (GCE) with passes in six subjects including at least two at Advanced level. Overseas applicants must also satisfy the College as to their proficiency in written and spoken English.

Grades A, B and C at GCE Advanced Level meet the higher level paper requirements for degree courses and carry points ratings of 15, 12 and 10 respectively. Grades D and E at GCE Advanced Level and Grades A, B and C at Ordinary Level GCE are regarded as equivalent to ordinary Leaving Certificate passes and carry points ratings of 7, 5, 3, 2 and 1 respectively.

## EDUCATIONAL REQUIREMENTS AND SELECTION PROCEDURES FOR ENTRY INTO THE FIRST YEAR OF THE COLLEGE CERTIFICATE, DIPLOMA AND OTHER NON-DEGREE COURSES IN 1991.

### EDUCATIONAL REQUIREMENTS

- (a) Courses DT01, DT02, DT03, DT04, DT05, DT13, DT45 and DT46: Leaving Certificate with passes in five subjects including Mathematics and English or an equivalent qualification.
- (b) Courses DT41, DT42 and DT44: Leaving Certificate with passes in five subjects including Mathematics, English and at least one of the following subjects: Physics, Chemistry, Physics and Chemistry, Applied Mathematics, Construction Studies, Technical Drawing, and Engineering or an equivalent qualification.

### SELECTION PROCEDURES

Eligible applicants are ranked in order of educational score merit in accordance with the points system shown below. Educational points are allocated to the results of the best *six* subjects obtained in one or more Leaving Certificate examinations. If only five subjects are presented and the candidate meets the eligibility requirements they will be used to give the applicant's educational score.

- (i) In the case of the Architectural Technician Course DT01, applicants are required to take an aptitude test in March / April. Applicants who demonstrate a particular suitability in this test are invited to an interview assessment. A maximum of 100 points are awarded for the applicants performance in the aptitude test and up to a further 100 points for the interview assessment. The results of the aptitude test and the interview assessment are combined with the educational points scored in the best six Leaving Certificate subjects (or five if only that number is presented) to produce an overall rating.
- (ii) In the case of all other courses (i.e. DT02, DT03, DT04, DT05, DT13, DT41, DT42, DT44, DT45 and DT46) the selection is based on the educational points scored in the best six subjects in the Leaving Certificate (or five subjects if only five are presented).

### CAS POINTS SYSTEM FOR DIPLOMA/CERTIFICATE/OTHER COURSES IN CAS LIST (2) WHICH WILL BE APPLIED TO THE IRISH LEAVING CERTIFICATE IN 1991\*

Level	Grade	A	B	C	D
HIGHER		100	80	60	40
ORDINARY		60	45	30	15

\*Subject to review for 1992 entry.

NUI Matriculation is not an acceptable qualification for DIT entry in 1991 and subsequent years.

Minimum Entry Points for courses in 1990 when the DIT points scoring system was applied to five subjects including Mathematics and English (see page 12).

DT02	B114	Construction Technician	25
DT03	B115	Geo Surveying	24
DT04	B116	Auctioneering & Estate Agency	27
**DT41	B126	Civil Engineering	29
**DT42	B127	Building Services Engineering	24
**DT44	B128	Mechanical Engineering	27
DT45	B120	Preliminary Engineering	23

\*\*A weighting factor of 1.5 was applied to Mathematics and 1.2 to appropriate Science subject points scores for these courses in 1990. Weightings will not be applied to these courses in 1991.

Due to the inclusion of aptitude tests and/or interviews in of the selection process it is not feasible to give the number of points which were required to gain entry to the following courses in 1990: Architectural Technician (DT01/B101), Buildings Maintenance (DT05/B171), Printing (DT13/B130) and Transport Engineering (DT19/B150).

### SPECIAL CATEGORY APPLICANTS

The following types of applicants are processed as special cases. All such applicants seeking admission to the First Year of any of the College courses listed in CAO/CAS Handbook should apply directly to CAO/CAS using the standard application form by the specified closing date. When returning the completed form applicants should ensure that page 3 is fully completed and include all documentary evidence available, including examination results, in support of their applications.

**(a) Mature Applicants:** A mature student who is 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 or suitability test before admission. The Application Form should clearly indicate "Mature Applicant" in the space provided on page 3.

**(b) Overseas Students:** Overseas students seeking admission to the College should apply to CAO/CAS not later than 15th December, 1990 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 may have to limit 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.

**(c) 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 eligibility requirements for courses in the DIT Colleges which specify a pass in five subjects in 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 endorsements 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.

**(d) Holders of N.C.E.A. National Certificates and Diplomas or Similar Level Awards:** Applications for entry into the First year of any of the College's courses should be made using the standard CAO/CAS application form.

Applicants seeking admission into the Second or subsequent years should contact the College Admissions Office for a special application form and further information about the procedures.

Such applicants should request their former College to forward in confidence to the Admissions Office a full transcript of results (including subjects studied and grades obtained) as soon as they are available but in any event not later than 10th July. The applications will not be processed until this has been received.

**(e) Applicants Seeking Exemptions from one or more years of a College Course:** The general procedure is as in (d). Such applicants should ask their former College to forward in confidence to the College 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.

**(f) Transfer/Re-Entry Applications:** Current students who wish to transfer from one course to another within the College or previous wholtime students who wish to re-enter the College into a year other than the First Year should apply on the appropriate form to the College Admissions Office (Room 315).

Queries relating to Special Category Applicants should be directed in the first instance to the College Admissions Office or to the Head of the appropriate Academic Department in the College.

## OFFERS AND ACCEPTANCE IN 1991

Applicants will be assessed in accordance with the procedures already indicated and offers of places will be issued simultaneously, where appropriate, in respect of the CAO List and the CAS Lists. While it is possible that an applicant will receive three offers [in respect of each list in accordance with the preference(s) entered] acceptance must be confined to one of them. Otherwise any offers made may have to be withdrawn.

The acceptance procedure involves completing the appropriate section of the Offer Notice and returning it by the specified date after it has been duly stamped by a Bank to confirm that the required acceptance deposit has been paid. Further information about the Offer and Acceptance procedure is given on page 5 of the CAO/CAS Joint Handbook 1991.

The College will communicate in writing with the successful applicants for its courses in early September, advising them of registration procedures and the commencement date (which is expected to be during the third week of September).

Students attending for registration will be required to present the following documentation:

- (a) the CAO/CAS offer notice carrying a bank stamp
- (b) three copies of a recent passport type photograph signed on the back.
- (c) other documentation as requested.

An applicant who is offered a place in a course which is not his/her first preference may subsequently be offered a place in a course of higher preference if such a place becomes available. This applies whether or not the earlier offer has been accepted by the applicant.



## FEES, GRANTS AND SCHOLARSHIPS

Fees are payable before commencing attendance at classes and are not refundable except where a class or course does not form. An enrolment is not transferable from one student to another. Enrolment / registration is only complete when a student is issued with his / her official College Student Card. This must be retained by the student for inspection by staff at any time while he / she is in the College.

### FEES PER ACADEMIC SESSION 1990/91

<b>(a) Irish and European Community Students</b>		
Wholetime Diploma/ Degree Courses	B101; B121; B122; B123; B124; B125	*£942
	B110; B111	*£754
Wholetime Technician Certificate Courses	B114; B115; B116; B120; B126; B127; B128; B130; B150; B160; B171	*£472
Wholetime Technician Diploma Courses	B102; B114; B115; B116; B126; B127; B128; B130; B131; B150	*£497
<b>(b) Overseas Students from Non-European Community Countries</b>		
Wholetime courses		*£2,100

\*Includes College examination fees — NCEA examination fees are extra where applicable.

**(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 courses leading to Certificate or Diploma awards and who do not benefit from ESF Training Grants may be 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:** ESF (European Social Fund) training grants may be available to Irish students aged over 16 years while they are pursuing certain two or three year courses provided their attendance record and general performance is satisfactory. These grants cover tuition fees and also provide for payment of a monthly allowance. The courses

which are included in the scheme in the 1990/91 session are marked by a double asterik(\*\*) in the Table on page 11. For Session 1990/91, a grant of £15.19 per week (full attendance) was payable to students who travel or who could reasonably be expected to travel daily between their home and the College, or whose home is within 15 miles of the College. A grant of £38.14 per week (full attendance) was payable to other eligible students.

**(d) 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 course of study. The scholarships apply to full-time and part-time Construction Technician Courses in the College and 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 and two scholarships valued at £250 each to the two students attaining the highest places of the year's work and examinations in the second year of the part-time course.

**(e) The G.H. Minet Insurance Co. Scholarship:** This company, in association with the Construction Industry Federation, has initiated a scholarship scheme which is open to students who have completed a construction trade apprenticeship and have gained admission to designated construction related whole time courses conducted by the College. The scholarship will be advertised locally within the College and may have a value of up to £1,000 per annum.

**(f) BETA Scholarships:** These are offered by the Engineering Graduates of the College to nominated students in the whole time degree level Engineering courses who achieve particularly a meritorious performance in the previous year of their course. The BETA Silver Medal is awarded to the outstanding Engineering degree graduate each session.

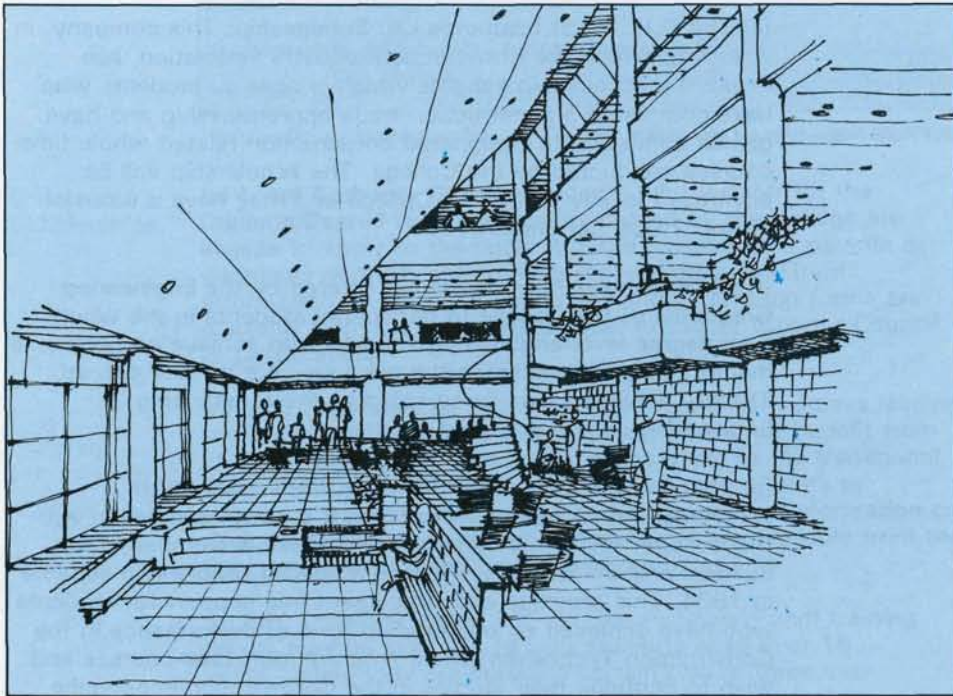
**(g) McInerney Scholarships:** To mark the seventy-fifth anniversary of its establishment and its close association with the College, the firm of Thomas McInerney & Company Ltd., Builders and Contractors, initiated a special scholarship scheme in 1984. This provides encouragement and support for students who have achieved an outstanding level of performance in the Construction Technician whole time and part time courses and wish to continue their studies in the Construction Economics Diploma/Degree courses. Two scholarships each valued at £500 are awarded each year on the nomination of the College.

## Grants and Scholarships

(h) **John Sisk & Sons Scholarship Fund:** To mark the 50th anniversary of the commencement of the firms building operations in Dublin this fund was established to assist students who on successful completion of the Construction Technician Diploma continue their studies in the College in preparation for the examinations of the Chartered Institute of Building. A scholarship of value up to £1,000 may be awarded to a student who achieves exceptional performance in years work and examinations in the Final year of the Diploma course and enrolls in the course leading to the CIOB examination.

(i) **AIB Bursaries:** AIB, in association with the Association of Vocational Education Colleges has been operating a scheme of bursaries, to support and encourage students who have already successfully completed a Certificate or Diploma course in a VEC College and were accepted for transfer to a Degree level course in the same sector. Eligible candidates were required to have achieved a high level of performance and not be in receipt of any other grant or scholarship. The scheme is at present under review.

(j) **Bank Loans:** The major banks are prepared, under normal circumstances, to consider applications from students for loans, and enquiries about these should be directed to the banks.



College Social Area.

## AWARDS AND ACCREDITATION OF COURSES

All wholtime third-level courses conducted by the College (except the Preliminary Engineering Course B120) lead to Dublin Institute of Technology (DIT) Diploma or Certificate awards as appropriate. The majority of these awards are of long standing and 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 1976 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 Building Services, Civil, and Mechanical Engineering Technician programmes by the National Council for Educational Awards (N.C.E.A.). More recently similar arrangements were made in relation to the Geo-Surveying, Auctioneering Valuation and Estate Agency, Buildings Maintenance, Printing, and Graphic Reproduction courses.

The College attaches high priority to ensure 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.



*Under a Partnership Agreement with the University of Dublin students of eight professional diploma courses conducted by the College are also eligible for appropriate degree awards with honours classification from the University without taking further examinations. Above is a group of Surveying graduates having received their B.Sc. (Surv) Degree Awards.*

## STUDENT ACTIVITIES, FACILITIES AND SERVICES

### Students Union

The Student' Union is the student's representative body in the College. It promotes the social and organisational side of student life and sees after the interest of students in the College. Every student becomes a member of the union on enrolment. It is affiliated to the Union of Students in Ireland.

The Union is administered by an executive which is elected annually by the student body and is headed by two sabbatical fulltime officers — a President and a Deputy President who are responsible for the overall co-ordination of union policy in addition to the day to day running of the Union. The Deputy President has specific responsibility for welfare, sports clubs and course related issues. Each class elects its own representative who acts as spokesperson to their Department and Student Union Executive.

The Union provides a number of commercial services including a student shop selling stationery, drawing equipment, confectionery and newspapers and it also provides photocopying services. It issues the International Students Identity Card (USIT Card) and provides information on student welfare and travel.

Other services provided by the Union include assisting members in finding suitable accomodation, organising lunchtime concerts, discos and other social events and promoting College clubs and societies by supporting them financially out of student capitation funds.

Full time Officers for 1990/1991 session

President: Gary Croke

Deputy President: Rodni Maguire

### Restaurant Facilities

The College has an extensive Restaurant which is open throughout the session for lunches and teas as well as morning and afternoon snacks.

### First Aid Service

A First Aid service is provided in co-operation with the Order of Malta.

### Physically Disabled

Physically disabled applicants are welcome to the College and most areas in it should be readily accessible to them. Students who may require special attention or have an unfavourable medical history are asked to provide details in writing to the College Secretary/Registrar in advance of enrolment.

### Banking Facilities

The College has a banking facility on campus which is currently operated by the Bank of Ireland.

### The College Library

The College Library has seats for 450 readers, and is open for about 60 hours per week over six days a week during term time. The Library has some 50,000 volumes and most of the collection is on open access to readers.

Extensive collections of appropriate technical journals, slides, videos and sound tapes are available for use in the Library. Library equipment includes photocopiers, microfiche readers and other information services, a microfiche printer, a microfilm printer, VCRs and monitors, tape slide viewers and a CD-ROM drive.

### Hours of Opening

Term Time — Monday — Thursday 9.30 am — 9.30 pm

Friday 9.30 am — 5.30 pm

Saturday 9.30 am — 1.00 pm

### College Computing Facilities

The Computing facilities of the College involve both centralised and local resources. The centralised facilities are currently based on a VAX cluster of an 8600 and 8350 which are housed in the DIT Computing Centre at 14 Upper Mount Street. These are networked with the facilities of the individual DIT Colleges over leased Bord Telecom lines. The College has its own Dec System 5400 multi-user system and extensive microcomputing facilities including North Star, Wang and NCR networks as well as significant numbers of IBM, Compaq, Wyse and Prompt stand alone units. The College also has a ten unit Apple Desk Top Publishing system, an Advanced Manufacturing Laboratory and other specialised computer based equipment. It expects to take delivery of a number of high powered work stations with extensive graphics facilities in late 1990.

### Counselling Service

The DIT Student Counsellor offers students professional advice relating to academic, personal and vocational matters on a confidential basis.

### Chaplaincy

A multidemoninational chaplaincy service is available to promote the development of the college community in both the spiritual and temporal sense. A number of religious services are held during the session.

### Clubs and Societies

There are a large number of active clubs and societies in the College including

#### Clubs

Badminton, Basketball, Canoeing, GAA, Cycling, Equestrian, Golf, Mixed Hockey, Karate, Mountaineering, Orienteering, Rugby, Sailing, Soccer, Squash, Ski, Swimming/Polo, Table Tennis, Walking, Weights and Wind Surfing.

#### Societies

Anti-Apartheid, Architectural Students Association, Auctioneers and Valuers, Business, C airdeas, Construction Technician, Christian, Engineering Technician, Film, Geo Surveying, Green Society, Motor Industry Management, Photographic, Printing, Property Economics, Quantity Surveyors, Students Against Destruction of Dublin (SADD), Student Engineers (SSE), Third World and St. Vincent de Paul.



## ARCHITECTURE, SURVEYING AND BUILDING COURSES

### B101 ARCHITECTURE – DIPLOMA/DEGREE

#### CAO Course 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 a synthesis of knowledge gained from the use of these subjects in architectural design projects culminating in a Final Year Thesis in the design of a major building. Students are required to gain professional experience in architectural office practice during the summer vacations and, in this way, support their study and their ability to work individually, or as members of a team.

#### Eligibility Requirements

The minimum educational qualification required for entry is the 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 an equivalent qualification. 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 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.

The Diploma in Architecture of the College is a qualification which is recognised for the profession of architect in member States of the European Economic Community.

#### Career Opportunities

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

### Dept. in Charge Architecture & Town Planning

### B102 ARCHITECTURAL TECHNICIAN DIPLOMA

#### CAS Course Code DT01

This is a three-year wholetime 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.

#### Eligibility Requirements

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



### First Year

#### Course of Study

Construction Projects, Surveying & Levelling, Mechanics & Structures, Building Construction, Graphics & Geometry, History & Theory of Architecture, Building Science & Materials, Computer Applications and Crafts.

### Second Year

Construction Projects, Surveying & Levelling, Structures, Building Services, Building Construction, Building Science & Materials, System Building & Prefabrication, Computer Applications and Crafts.

### Third Year

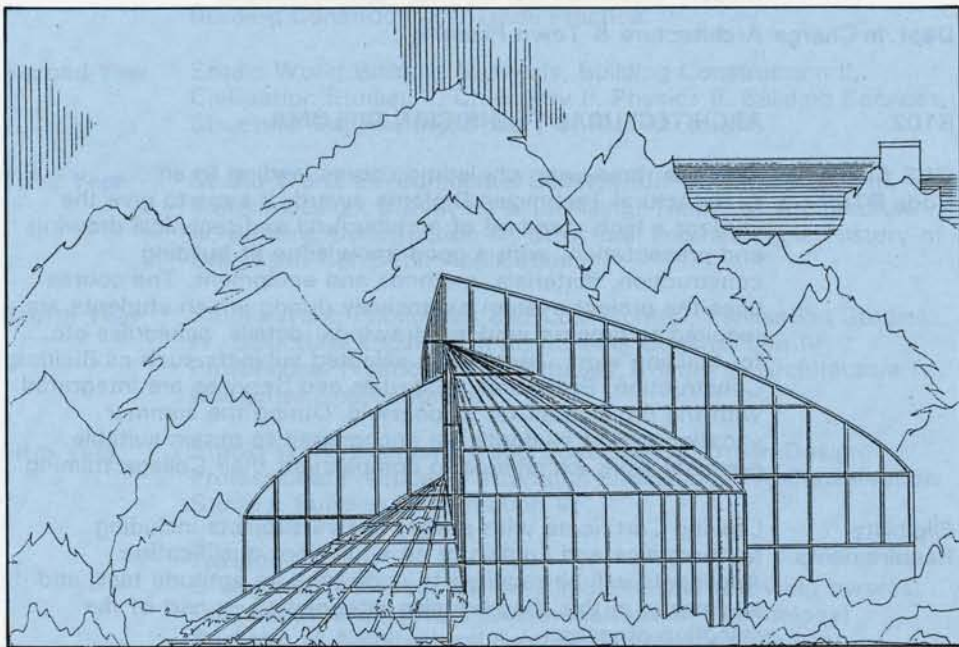
Constructional Projects, Construction Technology, Building Materials, Structures, Building Contracts, Architectural Practice & Procedure Specifications, Computer Applications and Crafts.

#### Awards

Graduates from this course are eligible for the following award:

**Architectural Technican 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 generally, with Contractors and Manufacturers. A number choose to work overseas for a few years to gain useful and wider experience.

Dept. in Charge **Architecture & Town Planning.**

### B110

#### PROPERTY ECONOMICS – DIPLOMA/DEGREE

#### CAO Course Code FT03

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

#### Eligibility Requirements

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

### First Year

#### Course of Study

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

### Second Year

Law; Construction Technology, Property Management and Marketing, Quantitative Methods, Valuations, Planning Economics.

### Third Year

Maintenance of Buildings, Valuations, Urban Economics, Planning Law, Taxation, Investment Analysis. During this year students undertake a major integrated project.

### Fourth Year

Valuations, Urban Economics, Planning, Taxation. 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 Property 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.

Property Economists are concerned with the broader areas of land and property development, valuation surveying, estate management and town planning. They are employed in private and public organisations such as 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.

To date, Property Economists have obtained suitable employment, mostly in private practice, but also in areas such as the financial investment departments of banks and insurance companies.

### Dept. in Charge Surveying & Building Technology



Site visit.

### B111

### CONSTRUCTION ECONOMICS – DIPLOMA/DEGREE

#### CAO Course Code FT02

This is a four year wholtime 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 encouraged to gain industrial and professional experience during the summer vacations and in this way they are introduced to applying their technical knowledge to practical problems, working individually or as a team.

#### Eligibility Requirements

The minimum educational qualification required for entry is the 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 an equivalent qualification. The six subjects must include Mathematics and English.

#### First Year

##### Course of Study

Quantitative Methods, Construction Law, Economics & Financial Management, Construction Studies, Measurement and Professional Development.

#### Second Year

Quantitative Methods, Construction Management, Construction Law, Economics & Financial Management, Construction Studies A and B, Land Surveying, Measurement.

#### Third Year

Construction Management, Administration of Contracts & Law, Economics & Financial Management, Construction Studies A & B, Measurement, Building Economics.

#### Fourth Year

Building Economics, Construction Administration & Management, 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 designs for purposes of cost planning, 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. In general, Construction Economics Graduates have obtained employment in quantity surveyors offices and in the construction industry with contractors and developers.

**Dept. in Charge** Surveying & Building Technology.

### B114 CONSTRUCTION TECHNICIAN CERTIFICATE/DIPLOMA

**CAS Course Code DT02** This is a wholtime course leading to a Construction Technician Certificate award after two years and a Diploma award on completion of an additional year. It is designed to meet the needs of the construction industry for technical staff 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.

**Eligibility Requirements** **First Year:** Leaving Certificate with passes in five subjects including Mathematics and English, or an equivalent qualification.

**Third Year (Diploma Stage):** Applicants are expected to have reached a good standard at the end of the Certificate or Second Year, or possess an equivalent qualification acceptable to the College.

**First Year** **Course of Study** Builders Accounts, Building Materials & Environmental Science, Mathematics, Construction Technology I, Site Surveying I, Quantity Surveying I.

**Second Year** Construction Technology II, Quantity Surveying II, Builders Accounts II, Site Surveying II, Estimating, Contract Law and Economics.

### Third Year

Quantity Surveying, Building Management, Economics, Contract Law, Construction Technology III, Contract Administration.

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

### Awards

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

**Construction Technician Certificate (Dublin Institute of Technology)**

**Construction Technician Diploma (Dublin Institute of Technology)**

Holders of the Diploma are entitled to Membership Part I of the Chartered Institute of Building following two years experience in building practice. The Construction Surveyors Institute admits holders of the Diploma to Licentiate Membership.

### Career Opportunities

These awards are particularly suitable for those who wish to attain positions relating to production planning, purchasing, quality control, estimating, surveying, inspection and general administration in the Construction Industry. They also provide a suitable background for those who wish to make their careers in building in the public sector (i.e. Central and Local Government).

The majority of 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.

**Dept. in Charge** Surveying & Building Technology.

### B115 GEO-SURVEYING TECHNICIAN CERTIFICATE/DIPLOMA

**CAS Course Code DT03** This wholtime course prepares students for 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 the theoretical and practical aspects of Geo-Surveying thereby ensuring a sound understanding of the applications of its technology. Project work is a significant feature of the course and is an important element in the overall assessment.

**Eligibility Requirements** **First Year:** Leaving Certificate with passes in five subjects including Mathematics and English or an equivalent qualification.

**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 to 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 & Statistics, Survey Methods and Practice, Instrumentation, Liberal Studies, Computer Science, Science for Surveying, Survey Drawing.

**Second Year (Certificate Stage)** Mathematics & Statistics, Instrumentation, Survey Methods & Practice, Mine & Engineering Surveying, Photogrammetry, Science for Surveying, Cartography, Computer Science, Construction Engineering.

**Third Year (Diploma Stage)** Mathematics & Statistics, Mine & Engineering Surveying, Survey Methods & Practice, Astronomy, Law, Photogrammetry, Cartography, Construction Engineering, Group Project.

Field camps are conducted at the end of both the First and Second Years. 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, Institute of Civil Engineering Surveyors 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-Surveyor 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 in Geo-Surveying and some graduates specialise in the use of this equipment.

#### Dept. in Charge Surveying and Building Technology



*Geo Surveying students using stereo comparator.*

**B116 AUCTIONEERING VALUATION AND ESTATE AGENCY  
CERTIFICATE/DIPLOMA COURSE**

**CAS Course Code DT04** This course has been developed to prepare students for a Certificate Award in Auctioneering, Valuation and Estate Agency after two years of wholetime study. Those who achieve a good standard in the Certificate may proceed to a Diploma award after a period of suitable employment. They are required to undertake a prescribed course of study and course assignments as well as a dissertation on an appropriate topic.

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

**Course of Study**

**First Year** Valuations, Quantitative Methods, Economics, Law, Complementary Studies, Building Construction, Financial Management.

**Second Year** Applied Valuations, Quantitative Methods, Property Management, Building Construction, Law, Planning, Financial Management, Marketing.

**Third Year** Enter into suitable employment at the end of the Second Year after which they return to the College to undertake a prescribed course of study, carry out assignments and complete a dissertation on an appropriate topic as well as the end of session examinations.

**Awards**

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

- (a) **Certificate in Auctioneering and Estate Agency** (after two years) and **Diploma in Auctioneering Valuation and Estate Agency** (after a further year) (**Dublin Institute of Technology**)
- (b) **National Certificate in Business Studies, (Auctioneering, Valuations and Estate Agency)** (after two years) and **National Diploma in Business Studies, (Auctioneering, Valuations and Estate Agency)** (after further year) (**National Council for Educational Awards**)

**Career Opportunities**

The course is suitable for those wishing to prepare for a career as an auctioneer, estate agent and property valuer and aims to give an understanding of the legal, economic and physical framework within which the property market functions. It also aims to give the basic skills needed to practice as an auctioneer.

The course meets the academic requirements of both the Irish Auctioneers and Valuers Institute (IAVI) and the Institute of Professional Auctioneers, Valuers, and Livestock Salesmen. These are professional bodies in the field of Auctioneering and Estate Agency in the Republic of Ireland. Auctioneers and Estate Agents are involved in the sales, lettings, management and valuation of property. Generally, they work either in partnerships or practice on their own account.

The career is suitable for those with an interest in people and in the built environment. Other desirable character traits are an outgoing nature together with an ability to get on with people.

**Dept. in Charge Surveying & Building Technology**



## BUILDINGS MAINTENANCE TECHNICIAN CERTIFICATE COURSE

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

### Eligibility Requirements

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

### Course of Study

#### First Year

Construction Technology I, Building Science I, Building Evaluation and Inspection, Construction Drawing, Building Services, Mathematics, Computer Studies, Quantities and Estimating, Complementary Studies, and Construction and Maintenance Skills.

#### Second Year

Construction Technology II, Building Science II, Quantities and Estimating, Building Services, Mathematics, Computer Studies, Land Surveying, Communications and Business Administration, and Construction and Maintenance Skills.

### Awards

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

- Buildings Maintenance Technician Certificate (Dublin Institute of Technology).**
- National Certificate in Construction Studies (Buildings Maintenance) (National Council for Educational Awards).**

### Career Opportunities

The Buildings Maintenance Technician may find employment in a variety of areas such as Buildings Maintenance, Maintenance Contract Administration, Building Inspection, Building Supplies and DIY Sales, Technical Sales, Trainee Estimating, Purchasing Officer etc.

There may also be opportunities in these areas for self employment.

Dept. in Charge Construction Trades.

## ENGINEERING COURSES

### B120 PRELIMINARY ENGINEERING

#### CAS Course code DT45

This is a one-year full-time course whose main purpose is to prepare students for entry into the first year of the College's Engineering Diploma/Degree Courses B121, B122, B123 or B124 who do not already meet the specified entry requirements in terms of Higher Level Mathematics or appropriate Science subject etc.

#### Eligibility Requirements

Leaving Certificate with passes in five subjects including Mathematics and English or an equivalent qualification. In practice the typical candidate gaining admission will probably have a number of 'Honour' grades.

#### Course of Study

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

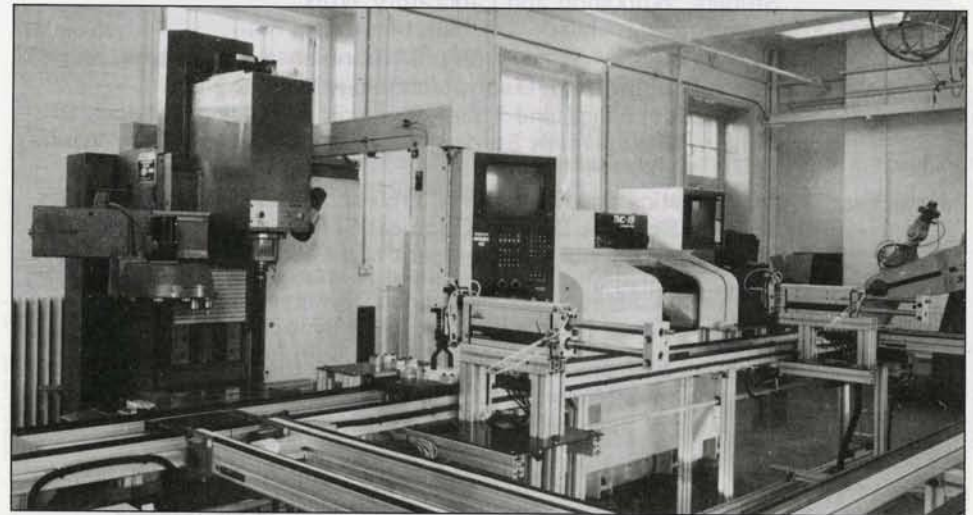
#### Examinations and Other Requirements

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

#### Admission into Professional Engineering Courses

Students who reach the required standard in the College examinations may qualify for admission to the first year of courses B121, B122, B123, B124 without further assessments and are notified of this early in July. They do not have to apply through the CAO system.

Dept. in Charge Engineering Technology.



The College Advanced Manufacturing Laboratory.

**CAO Course  
Code FT04**

This is a four year whole-time course which prepares students with 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 later stages. Project work is a major element in the programme. In the third year a Joint project with Architectural and Surveying students is undertaken and in the 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.

**Eligibility  
Requirements**

The minimum educational qualifications required for entry are the 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, Construction Studies & Engineering) and a pass in four other subjects which must include English, or an equivalent qualification.

**Course of Study****First Year**

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

**Second Year**

Mathematics, Environmental Science, Materials Science, Electrical Engineering, Building Technology, Fluids and Thermodynamics, Building Service Design, Economic and Social Studies, Workshop and Laboratory Work.

**Third Year**

Mathematics and Computing, Environmental Engineering, Control Engineering, Electrotechnology, 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 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 University 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 design and installation of 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 good 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.

**Dept. in Charge Engineering Technology****CAO Course  
Code FT04**

This is a four year whole-time 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.

**Eligibility  
Requirements**

The minimum educational qualifications required for entry are the 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, Construction Studies and Engineering) and a pass in four other subjects which must include English, or an equivalent qualification.

**Course of Study****First Year**

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

**Second Year**

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

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

**Fourth 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 University 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 firms and with the maintenance of plant and equipment.

Graduates have a good prospect of employment in general mechanical engineering or processing firms, with state and semi-state bodies, and research organisations. The range of jobs available 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.

**Dept. in Charge Engineering Technology**

**CAO Course Code: FT04**

This is a four year wholetime course which prepares students with 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 in 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.

#### **Eligibility Requirements**

The minimum educational qualifications required for entry are the 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, Construction Studies & Engineering) and a pass in four other subjects which must include English, or an equivalent qualification.

#### **Course of Study**

##### **First Year**

Mathematics, Mechanics, Materials Science, Physics, Engineering Technology, Engineering Drawing, Communications and Social Studies, Workshop, Laboratory Work and Computing.

##### **Second Year**

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

##### **Third Year**

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

##### **Fourth Year**

Mathematics and Computing, Control Engineering, Manufacturing Technology, Mechanics, Materials Science, Production Management, Laboratory Work and a Project.



### 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)**

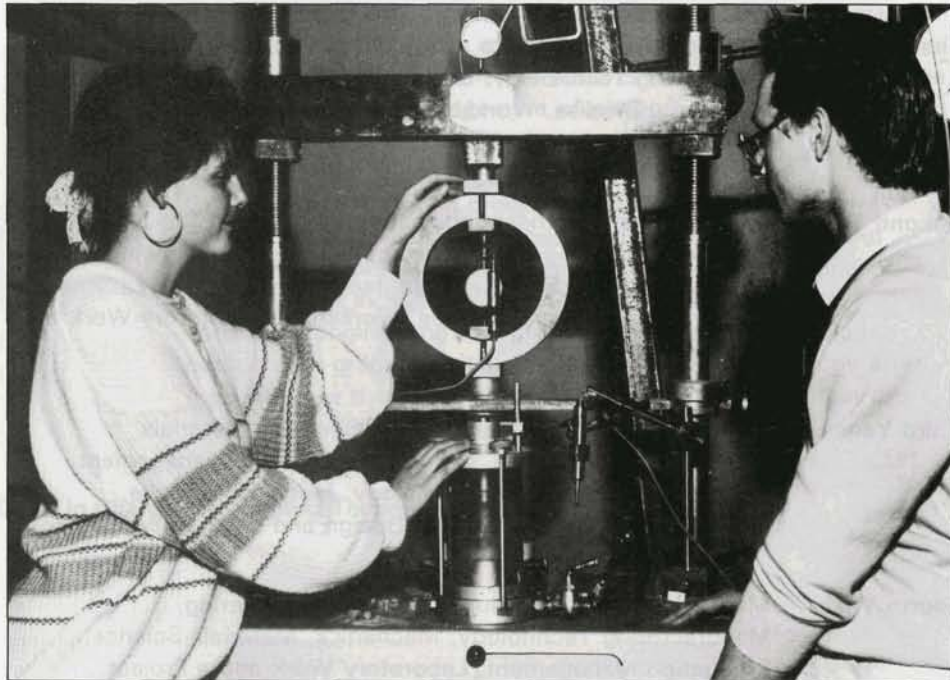
They are eligible for membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate University post-graduate courses in Ireland and abroad.

### 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 good prospects of employment in manufacturing firms, with state and semi-state bodies and research organisations. The range of jobs available 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.

Dept. in Charge Engineering Technology



### B124

### STRUCTURAL ENGINEERING DIPLOMA/DEGREE

#### CAO Course Code FT04

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 on a 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.

#### Eligibility Requirements

The minimum educational qualifications required for entry are the 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 Construction Studies & Engineering) and a pass in four other subjects which must include English, or an equivalent qualification.

#### Course of Study

##### First Year

Mathematics, Mechanics, Materials Science, Physics, Engineering Technology, Engineering Drawing, Communications and Social Studies, Workshop, Laboratory Work and Computing.

##### Second Year

Mathematics, Mechanics, Surveying, Fluid Mechanics, Materials Science, Concrete Technology and Geology, Structural Theory, Construction Studies & Environmental Technology, Economic and Social Studies and 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 and a Project.

#### 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 University 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 Service 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 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.

**Dept. in Charge** Engineering Technology.

## **B126 CIVIL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA**

**CAS Course Code** DT41

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 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.

**Eligibility Requirements**

**First Year:** Leaving Certificate with passes in five subjects including Mathematics, an appropriate Science subject (see page 14) and English, or an equivalent qualification.

**Third Year (Diploma Stage):** Students are expected to reach Credit (Merit) 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, Concrete, Geology and Soil Mechanics, Surveying, Construction Services and Supplies, Planning and Administration, Complementary Studies Laboratory Work.

**Third Year (Diploma Stage)** Theory of Structures, Structural Design, Municipal Engineering, Structural Design (Steel/Concrete), Engineering, Mathematics, Computing, Management Studies and a Project.

### **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, and the Dublin Institute of Technology.  
(b) They are required to submit reports on their project and laboratory work.

### **Awards**

Graduates of this course are eligible for the following awards:  
(a) **Technician Certificate/Diploma in Civil Engineering (Dublin Institute of Technology)**  
(b) **National Certificate/Diploma in Engineering (Civil) (National Council for Educational Awards)**

### **Recognition by Professional Bodies**

Those who have successfully completed the Certificate Stage of the 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.

**Dept. in Charge** Engineering Technology



**CAS Course Code DT42**

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 College from September until the end of May each year and they spend the Summer months gaining practical experience in heating, ventilation and air conditioning, in consulting engineers' offices and related industry. The course requires an analytical ability to understand and solve technical problems.

**Eligibility Requirements**

**First Year:** Leaving Certificate with passes in five subjects including Mathematics, an appropriate Science subject (see page 14) and English, or an equivalent qualification.

**Third Year (Diploma Stage):** Students are expected to reach Credit (Merit) 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, Computing and Complementary Studies.

**Second Year**

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

**Third Year**

Mathematics, Management Studies, Electrotechnology and Controls, Process Plant Technology 1, Environmental Engineering, Environmental Plant Design, Ancillary Services, Computing and Project Work.

**Examination and Other Requirements**

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

**Awards**

Graduates of this course are eligible for the following awards:

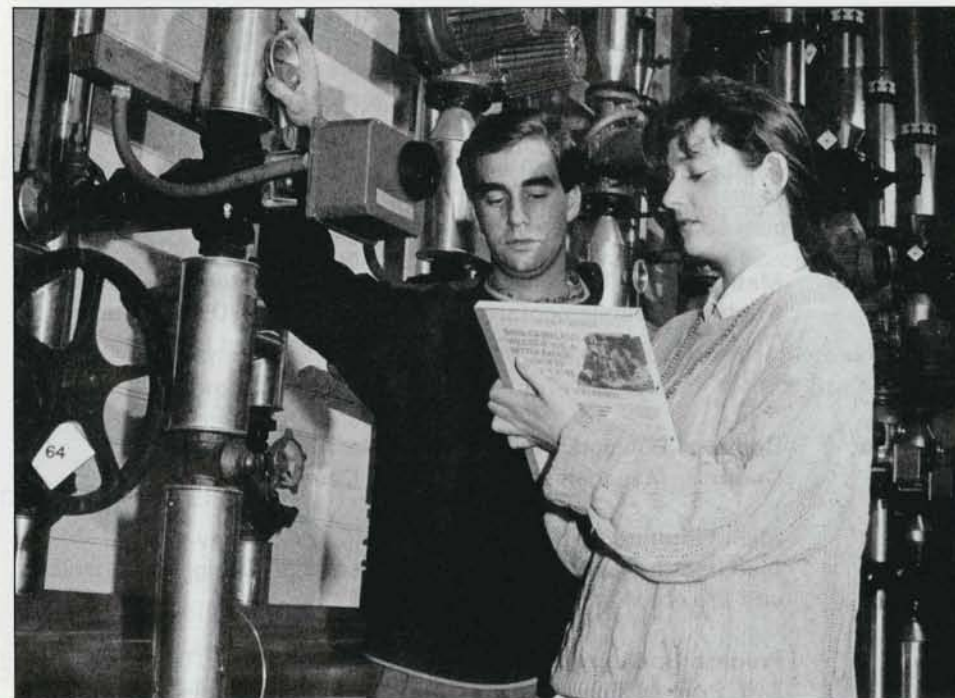
- Technician Certificate/Diploma in Environmental/Building Services Engineering (Dublin Institute of Technology)**
- National Certificate/Diploma in Engineering (Building Services) (National Council for Educational Awards).**

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**

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

**Dept. in Charge Engineering Technology.**

**CAS Course  
Code DT44**

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.

**Eligibility  
Requirements**

**First Year:** Leaving Certificate with passes in five subjects including Mathematics, an appropriate Science subject (see page 14) and English, or equivalent qualification.

**Third Year (Diploma Stage):** Students are expected to reach Credit (Merit) 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, Computing and Complementary Studies.

**Second Year**

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

**Third Year**

**Common Subjects:** Mathematics, Electrotechnology and Controls, Management Studies and Computing.

**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 and the Dublin Institute of Technology.

(b) They are required to submit 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. 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, detailing 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.

**Dept. in Charge Engineering Technology.**

**B150** **TECHNICIAN CERTIFICATE IN TRANSPORT ENGINEERING/  
DIPLOMA IN MOTOR INDUSTRY MANAGEMENT**

**CAS Course Code DT46** 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.

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

**Course of Study**

**First Year** Mathematics, Automobile Engineering, Electricity/Electronics, Heat Engines, Applied Mechanics, Workshop Technology, Engineering Drawing, Complementary and Management Studies and Computer Studies.

**Second Year** Mathematics, Automobile Engineering, Automobile Electricity/Electronics, Engineering Science, Heat Engines, Applied Mechanics, Workshop Technology, Engineering Drawing, Computer Studies, 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, Management Project, Computer Studies, Financial and Commercial Aspects.

**Examination and Other Requirements** Progress to successive years of the course will be on the basis of the students'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 each Summer Vacation in suitable employment in the Motor Industry gaining appropriate experience. Where students are unable to arrange this employment, the Institute of the Motor Industry, the College Authorities and the Student Society of Motor Industry Management may assist in their placement.

**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 Certificate of Management examination requirement of the Institute of Motor Industry and for subject exemptions from the examinations of the Institute of Road Transport Engineers.

**Career Opportunities**

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

**Dept. in Charge Transport Engineering**



*Tuning an automobile engine.*

## PRINTING COURSES

### TECHNICIAN CERTIFICATE IN PRINTING/DIPLOMA IN PRINTING MANAGEMENT

**B130**  
**CAS Course**  
**Code DT13**

This course is designed to prepare young people for technical/managerial positions in printing and related industries. The course leads to a Certificate award in Printing after two years of study and to a Diploma Award in Printing Management after a further year's study.

#### Eligibility Requirements

**First Year:** Leaving Certificate with passes in five subjects including Mathematics and English, or an equivalent qualification.

**Diploma Stage (Third Year):** Certificate in Printing with Credit (Merit) or Distinction or a pass with one year of relevant work experience or an acceptable equivalent qualification.

#### Course of Study

The following subjects are included in the Certificate programme: — Design for Printing, Graphic Reproduction, Electronic Composition, Printing Processes, Bookbinding and Print Finishing, Applied Science, Mathematics, Computer Applications, Production Planning, Estimating, Communications, Financial Administration and Business Organisation.

The following subjects are included in the Diploma (third year) programme: — Management Accountancy, Marketing, Estimating, Production Planning, Quality Management, Costing, Computer Science, Languages, Management Science.

#### Awards

Graduates from this course are eligible for the following awards:

(a) **Technician Certificate in Printing (Dublin Institute of Technology), National Certificate in Technology (Printing Technology) (National Council for Educational Awards)**

(b) **Diploma in Printing Management (Dublin Institute of Technology), National Diploma in Business Studies (Printing Management) (National Council for Educational Awards)**

#### Career Opportunities

The majority of graduates to date have found positions in printing, packaging, publishing or advertising firms in the following areas: Estimating, Production Planning, Cost Accountancy, Marketing, Quality Management, Customer Services and Technical Liaison.

**Dept. in Charge Printing and Graphic Communications**

## B131

## DIPLOMA IN GRAPHIC REPRODUCTION TECHNOLOGY

This one year course in Graphic Reproduction Technology has been formulated in response to the needs of the graphic industries for creative personnel with experience of the production and finishing processes in the graphic arts.

Students following this Graphic Reproduction Technology course design and process a wide range of items for print production. They are trained in photocomposition, camera and studio work, paste-up and planning, offset printing, screen printing and print finishing, and are expected to use these skills to produce finished products from their own designs. The objectives were formulated in consultation with interested bodies in the graphic communications industries, following a realistic assessment of the requirements for print designers.

#### Entrance Requirements

National Certificate in Design of the NCEA with Credit (Merit) or Distinction; or National Certificate in Design of the NCEA with a pass and one year's relevant working experience; or National Diploma in Design of the NCEA; or equivalent qualifications.

Intending students should apply directly to the College and are required to present a portfolio of recent work.

#### Course of Study

Graphic Design, Electronic Composition, Desk Top Publishing, Origination, Planning, Graphic Reproduction, Printing Processes, and Administration.

#### Award

Graduates of the course are eligible for the following awards:

(a) **Diploma in Graphic Reproduction Technology (Dublin Institute of Technology)**

(b) **National Diploma in Technology (Graphic Design) (National Council for Educational Awards)**

#### Career Opportunities

Graduates find suitable employment with advertising agencies, design studios, printing firms and publishing companies. They will also be capable of setting up and running their own studios.

**Dept. in Charge Printing and Graphic Communications**

## FOR FURTHER INFORMATION CONTACT

College Admissions Office (Room 315)  
Officer in Charge: Mr. Liam Cooke

Architecture (Room 441)  
Mr. John O'Keeffe (Dept. Head)

Surveying & Building Technology (Room 341)  
Mr. Eanna de Burca (Dept. Head)

Buildings Maintenance (School of Trades)  
Mr. Joseph Bernie (Head of School)

Engineering Technology (Room 241)  
Mr. Oliver McNulty (Dept. Head)

Transport Engineering (Room 119)  
Mr. Dominic Tuite (Dept. Head)

Printing & Graphic Communications (Room 217)  
Mr. Brian Kennedy (Dept. Head)

College Secretary/Registrar  
Mr. Michael Marnane

College of Technology  
Bolton Street  
Dublin 1  
Tel. 01-727177  
Fax. 01-727879

DIT Admissions Office  
14 Upper Mount Street  
Dublin 2  
Tel 01-766584  
Fax 01-762608

**Details of part-time and craft apprenticeship  
courses are given in the General College  
Prospectus.**