

1989

## Fulltime Courses 1989-90

City of Dublin Vocational Education Committee

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City of Dublin  
Vocational Educational Committee

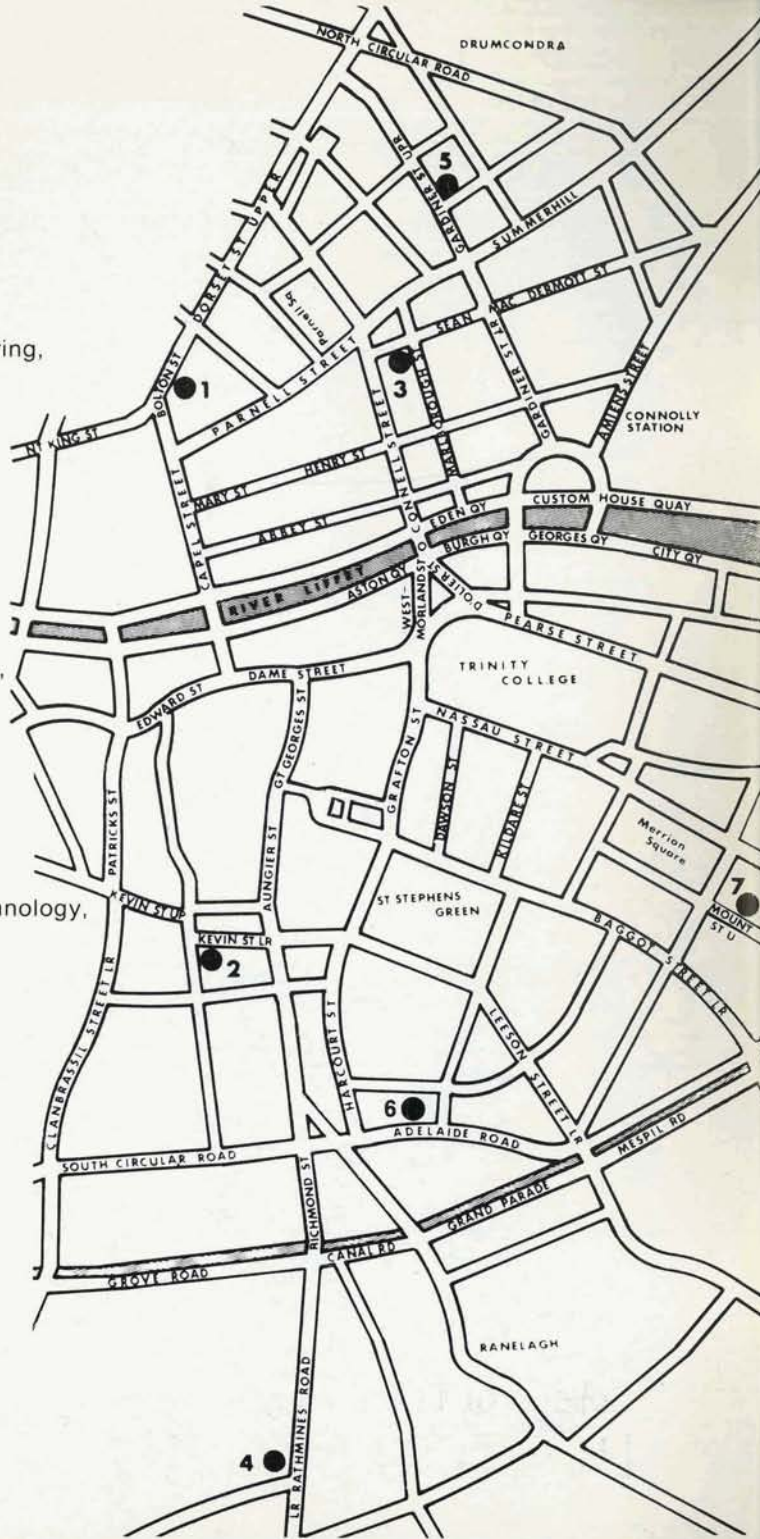
**DUBLIN INSTITUTE OF TECHNOLOGY**



College of Technology  
**BOLTON STREET**

*Full-Time Courses 1989/'90*

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City of Dublin Vocational  
Education Committee

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of Technology

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Full-Time Courses 1989/90



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*Michael O'Donnell*  
Michael O'Donnell



**CALENDAR**  
**for Applicants to College of Technology**  
**Bolton Street**  
**1989/90 Session**

- 1989
- February 1st** Closing date for receipt of applications through CAO in respect of Courses B101, B110, B111, B121, B122, B123 and B124
- February 10th** Closing date for receipt for Part I of applications through DIT in respect of First Year of Courses B102, B114, B115, B116, B120, B126, B127, B128, B130, B150 and B171 on payment of £8 fee.
- February 24th** Late closing date for receipt of Part I applications through DIT. payment of an £11 fee.
- March 1st** Closing date for receipt of applications through CAO on payment of £26 fee.
- April** Aptitude tests for Courses B101 and B102 will be held March/April 1989.
- June 1st** Final closing date for receipt of Part I applications through DIT on payment of £40 fee.
- End of July** Issue of Part II of DIT Application form providing facility for change of mind in respect of courses B114, B115, B116, B120, B126, B127, B128, B130, B150 and B171.
- July 31st** Latest date for acceptance of completed Part I applications for the Third Year (Diploma Stage) of courses B114, B115, B116, B126, B127, B128, B130, B150 and B131.
- August 1st** Closing date for *late* applications through the CAO for courses B110 B111, B121, B122, B123 and B124. Latest date for CAO 'Change of Mind' submission.
- August 21st** Part II DIT Application Forms must be returned in accordance with the instructions given in the DIT handbook and other DIT documentation. **NOTE:** If the Part II DIT Application Form is not returned to the DIT office by the specified date the original application will be deemed to have lapsed.
- Sept 1-8** Interviews for courses processed through DIT Applications Office:- B102, B114, B115, B116, B120, B126, B127, B128, B130, B150 and B171. Applicants being called for interview will be informed when to attend.
- September 18** Courses are expected to commence during the week of September 18th 1989.

**NOTES;**

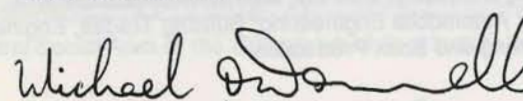
- (i) Applicants should note that *late* applications are not accepted for courses B101 and B102. These courses may *not* be introduced into an application for the first time after March 1st and February 24th respectively.
- (ii) The information in this booklet is intended as a guide for persons seeking admission to the College and shall not be deemed to constitute a contract or the terms thereof between the College and a student or any third party. 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..



**T**his booklet has been prepared to provide you with information about the wholtime courses offered by the College of Technology, Bolton Street, Dublin 1 and the method of applying for them. We are conscious of the difficulties facing young people in deciding on careers and selecting the most suitable courses to prepare for them. We hope that you will find the booklet informative and helpful. We take care in selecting and advising students and we encourage you to consider carefully the options that may be available to you.

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 must offer many challenging and rewarding job opportunities in the decades ahead.

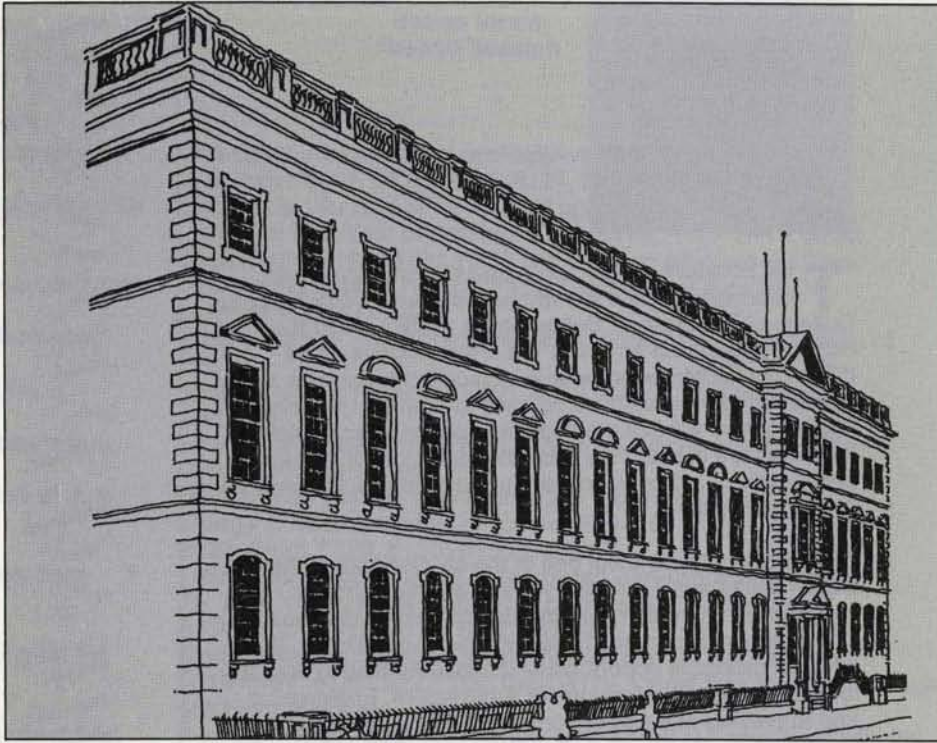
There are many things one could say about the College and its programmes which may interest you. It is a technological educational institution with the prime objective of assisting young people to acquire the knowledge and skills necessary for a fulfilling and rewarding career. Our well qualified and experienced staff and extensive range of laboratories, workshops and other facilities provide the basis for a vigorous and lively academic community. The College has a national and international reputation and the record of achievement by its graduates is something for 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

Forward by the Principal



## PROFILE OF THE COLLEGE



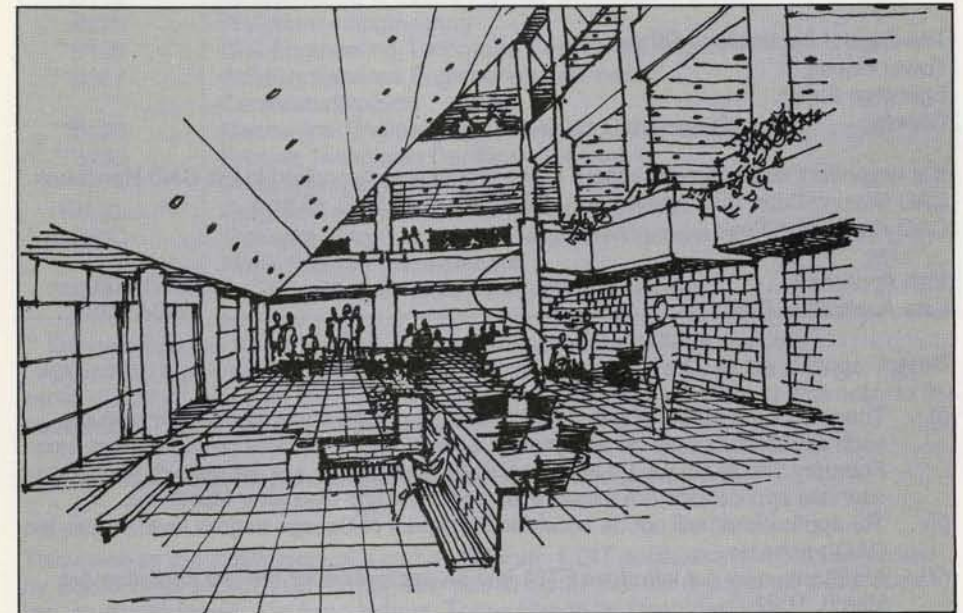
The College of Technology, Bolton Street, is the largest of the six colleges which make up the Dublin Institute of Technology. The other five Colleges are: College of Technology, Kevin Street, Dublin 8, College of Commerce, Rathmines, Dublin 6, College of Marketing & Design, Mountjoy Square, Dublin 1,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

Today the College has responsibility both nationally and regionally for the provision of comprehensive programmes of technical and technological education in each of its major disciplines. It has about 6,000 students of whom 1,800 are full time third level students. It is organised into eleven departments; Architecture and Town Planning; Engineering Technology; Surveying & Building; Science, Mathematics and General Studies; Aeronautical Engineering; Automobile Engineering; Building Trades; Engineering Trades; Metal Fabrication; Printing and Book Production.

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

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

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



Central Social Area of the College which is a feature of the major new extension.



## HOW TO APPLY

### (i) DEGREE LEVEL COURSES IN C.A.O. SCHEME

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

College Course Code	CAO Code	Course Description	Course Duration (Years)
B101	FT01 ARCHDEG	Architecture	5
B110	FT03 EECNDEG	Property Economics	4
B111	FT02 ECNDEG	Construction Economics	4
*B121		Building Services Engineering	4
*B122	*FT04 ENGDEG	Mechanical Engineering	4
*B123		Production Engineering	4
*B124		Structural Engineering	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, 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.

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

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

It is essential that applicants adhere to the procedures described in the CAO Handbook.  
CAO Closing Date: Irish Applicants – 1st February 1989 (5.15 pm).  
CAO Application Fee:

Irish Applicants..... IR£18.00  
Late Application Fee..... IR£40.00

#### Note:

- (i) There will be a period of grace for the receipt of Irish applications during which such applications may be accepted at a fee of IR£26.00. This period will last from February 2nd to March 1st inclusive. Such applications are not considered to be late: late applications are those received for the first time after March 1st.
- (ii) 'Re-applications' will not be accepted in respect of College degree level courses in CAO's scheme.
- (iii) Applicants may not introduce FT01 into an application for the first time after 1st March, 1989.
- (iv) 'Late applications' received by 1st August 1989 for the other Bolton Street courses

listed above will be considered together with normal applications on the basis of merit. 'Late applications' received by the CAO for DIT courses after that date will not be accepted.

- (v) Applications from mature students and overseas students for DIT courses are not processed through CAO. Such applications must be made directly to DIT, 14 Upper Mount Street, Dublin 2 on or before 10th February, 1989. **Applicants are advised to read the 1989 CAO Handbook carefully before making application.**
- (vi) When submitting an application to CAO, applicants should ensure that all information entered on the form is accurate and legible. The Central Applications Office makes a charge for the return of incorrect and/or incomplete application forms.

### (ii) TECHNICIAN AND OTHER WHOLETIME COURSES PROCESSED THROUGH THE DIT APPLICATIONS OFFICE

Applications for admission to the College's technician and other wholetime courses not in the CAO system, which are listed below, should be made to the Dublin Institute of Technology on the standard DIT application forms.

College Course Code	Course Description	Course Duration (Years)
B102	Architectural Technician Diploma	3
**B114	Construction Technician Certificate/Diploma	2/3
**B115	Geo-Surveying Technician Certificate/Diploma	2/3
**B116	Auctioneering & Estate Agency Certificate/Diploma	2/3
B120	Preliminary Engineering	1
**B126	Civil Engineering Technician Certificate/Diploma	2/3
**B127	Building Services Engineering Technician Certificate/Diploma	2/3
**B128	Mechanical Engineering Technician Certificate/Diploma	2/3
**B130	Printing Technician Certificate/Diploma in Printing Management	2/3
•B131	Graphic Reproduction Technology Diploma	1
**B150	Transport Eng. Technician Certificate/Diploma in Motor Industry Management	2/3
**B171	Buildings Maintenance Technician Certificate	2

- \*\* Denotes courses for which ESF support is available in 1988/89 session.
- Application for admission to course B131 must be made directly to the College. Applicants should note that an appropriate Third Level award is necessary to gain entry to the course and it is not open to school leavers for direct entry.

#### The DIT Applications Procedures is divided into two parts:

##### Part 1

This involves the submission of a completed Part 1 DIT application form accompanied by Section A of a BANK GIRO duly stamped to certify that the appropriate application fee, as shown below, has been lodged. These should be forwarded to:



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

to reach there not later than 10th February 1989 (24th February on payment of higher fee). Applications will be acknowledged within one month of their arrival. Applicants who have not received an acknowledgement within that time should write to the DIT Admissions Office, preferably on a postcard.

#### **DIT Application Fees for 1989/90 session**

Applications received on or before 10th February 1989.....	£8
Applications received between 10th February and 24th February 1989.....	£11
Applications received between 25th February and 1st June 1989.....	£40

#### **Applications received after 1st June 1989 will not be considered.**

##### **Part 2:**

Applicants other than transferee, mature and overseas students (see below) will be sent Part 2 of the DIT application form during the last week of July, 1989 to the permanent home address given on their Part 1 DIT application forms.

This Part 2 DIT application form will show clearly the date by which it must be returned to the Institute in order to complete the application. It is likely that this will be around 21st August, 1989.

It is recognised that some applicants may wish to change the order of and/or replace any or all of their original course preferences at this stage in the light of their 1989 school leaving examinations or new career plans. The Part 2 form is intended to facilitate this in so far as it is possible. This facility will not, however, be available in the case of some courses for which aptitude test/interview/portfolio assessments will have already been held. These courses will be listed on the Part 2 application form.

Due to severe time constraints in the final processing of applications in late August, applicants are advised that the Institute will adhere strictly to the Part 2 DIT applications closing date.

**The return of the Part 2 DIT application form is an essential part of the application procedure. Candidates not returning it to the DIT Admission Office by the specified closing date will not be considered further by the Institute and their applications will be deemed to have lapsed.**

Applicants who are likely to be away from their permanent home address around this period should arrange with a reliable person to deal promptly with DIT correspondence. In this context applicants should note the importance of their permanent home address as specified on their Part 1 DIT application form and any change in this address should be notified to the Institute in writing.

#### **(III) SPECIAL CATEGORY APPLICANTS**

The following types of applicants are treated as special cases and are processed

separately from the main stream of candidates. All such applicants should apply directly to the Dublin Institute of Technology on the Part 1 application form, by the closing date. When returning the completed form they should indicate clearly that they wish to be considered as a special case and include all documentary evidence available, including examination results, in support of their application.

#### **(a) 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 test or a suitability test before admission. The Application Form should be clearly marked "Mature Applicant" on the front. Otherwise it will be treated as a normal application and you may not be considered for any course. Applicants who are being considered in this category will not be required to complete the Application Form – Part 2 in August.

#### **(b) Overseas Students**

Overseas students seeking admission to the College should apply to the Dublin Institute of Technology, 14 Upper Mount Street, Dublin 2, not later than 10th February 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 it has 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 entrance requirements for courses in the DIT Colleges which specify a pass in five subjects in the Leaving Certificate Examination as the entrance requirement. Students holding this Certificate with three endorsements in academic subjects are eligible for consideration for entry into related professional/degree level courses provided that they also meet any special entry requirements (e.g. Higher Level Mathematics for Engineering courses). Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education is an acceptable equivalent.

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

Applications should be made to the DIT Admissions Office by submitting Part 1 DIT application form and Section A of the bank GIRO, duly stamped to certify that the appropriate application fee of £8 has been lodged.

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) not later than 10th July. The applications will not be processed until this has been received.



**Note:**

Due to the inclusion of aptitude tests as part of the selection process for courses B101 and B102, applications for these courses must be made on or before 24th February 1989.

**(e) Applicants Seeking Exemptions from one or more years of a Course**

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

**(f) Transfer/Re-Entry Applications**

Current students who wish to transfer from one course to another within the College or previous whole-time students who wish to re-enter the College should apply on the appropriate form to the College Admissions Office, Room 315, College of Technology, Bolton Street, Dublin.

Further information in respect of Special Category Applicants is available on request from the College Admissions Office.

**SUMMARY OF MINIMUM ENTRY QUALIFICATIONS**

**(I) DEGREE LEVEL COURSES**

- (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. The six subjects must include Mathematics and English.
- (b) Course FT04: Irish Leaving Certificate with passes in six subjects with 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. The six subjects must include English.

**Minimum Entry Points for degree level courses in 1988**

FT02	B111	Construction Economics	32 points
FT03	B110	Property Economics	32 points
FT04	B121	{ Building Services Engineering Mechanical Engineering Production Engineering Structural Engineering }	25 points
	B122		
	B123		
	B124		

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 1988.

**Note**

Not all applicants who scored the above number of points obtained placed in 1988.

**(ii) TECHNICIAN LEVEL COURSES**

B102, B114, B115, B116, B120, B130, B150, B171: Irish Leaving Certificate with passes in five subjects which must include Mathematics and English.

B126, B127, B128: Irish Leaving Certificate with passes in five subjects which must include Mathematics, English and one of the following science subjects: Physics, (preferably) Chemistry, Physics with Chemistry, Applied Mathematics, Construction Studies, Technical Drawing, Engineering.

**Qualifications other than Irish Department of Education Leaving Certificate**

The college also gives consideration to qualifications other than the Irish Leaving Certificate and the points system given in the next section indicates the approach which is adopted in respect of the NUI Matriculation.

Please note that the additional weighting factors in the case of course FT04 apply only to the Leaving Certificate Mathematics and Science subjects and not to these subjects in the Matriculation.

**General Certificate of Education (GCE)**

The minimum entry requirement to technician level courses is the General Certificate of Education Ordinary Level in five subjects, including good passes in English and Mathematics, or equivalent qualifications.

Applicants for degree level courses are required to have the G.C.E. with passes in six subjects including at least two good Advanced Level subjects or equivalent. Overseas applicants must satisfy the College as to their proficiency in written and spoken English.



Grades A, B and C in the GCE Advanced Level meet the higher level paper requirements for degree level courses.

Grades D and E in the GCE Advanced Level or Grades A, B and C in the Ordinary Level GCE are regarded as equivalent to ordinary Leaving Certificate passes.

### DIT POINTS SYSTEM

The following table shows the points used to calculate educational scores for all the College's wholetime courses except FT04, B126, B127 and B128 (see notes below).

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

### COURSES FT04:

**An Enhanced Points Weighting applies to certain subjects for the Engineering Courses FT04 but only in respect of Higher Leaving Certificate Papers as follows:**  
The following points scores are awarded to grades A to C on the Higher Leaving Certificate paper in Mathematics: A, 14; B, 12; C, 10.

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

### ENGINEERING TECHNICIAN COURSES:

In evaluating educational scores for the Engineering Technician courses B126, B127 and B128 a weighting factor of 1.5 is applied to Mathematics and a weighting of 1.2 is applied to the following subjects which have special relevance: Physics, Chemistry, Physics with Chemistry, Applied Mathematics, Construction Studies, Technical Drawing and Engineering. The points are rounded up to the nearest whole number e.g.

Grade B in higher level Mathematics	=	11 Points
Grade B in higher level Physics	=	8 Points
Grade A in ordinary level Mathematics	=	8 Points
Grade A in ordinary level Physics	=	6 Points

### Minimum Entry Standards for Technician Level Courses in 1988

Due to the inclusion of an interview as part of the selection process it is not feasible to indicate the points levels which were necessary to gain entry into the different courses in 1988. However it can be stated that a good performance in the Leaving Certificate, even at Pass level, enhances the applicant's prospects as each candidate's educational score is evaluated in accordance with the above points system.

## SELECTION OF APPLICANTS

### (i) DEGREE LEVEL COURSES

Applicants are placed in order of merit in accordance with the D.I.T. points system (see page 11). Points are allocated to the best results in six subjects (including Mathematics and English) obtained in one or more school leaving examinations having regard to the relevant course entry requirements. Generally demand exceeds places available and qualifications well above the minimum will be required. In the case of Architecture, applicants will be required to take a suitability test and this will be used in determining which applicants are called for interview. The results of suitability tests and interviews will be combined with the total educational points scored to give an overall rating.

It is anticipated that the suitability tests for the Architecture Course B101 will be held in March/April 1989. Applicants who have not been notified by the end of April as to when they should take their test should contact the College.

Offers of places will be made by the CAO in August.

### (ii) TECHNICIAN LEVEL COURSES

In the case of technician courses in the College (with the exception of the Architectural Technician Course – B102) applicants who meet the minimum educational requirements and are being considered for entry into the different courses can expect a written communication from the Admissions Office of the Institute in late August inviting them to attend for interview in the College at a specified time during the first week in September. Applicants for the Architectural Technician Course (B102) will be required to take a suitability test and this will be used in determining which applicants are called for interview. It is anticipated that these tests will be held in March/April 1989. Applicants who have not been notified of the test by the end of April should contact the College.

In most cases all qualified applicants will be called for interview for courses in which they have expressed an interest. However in cases where this is not feasible due to the very large number of applications, candidates will be selected for interview on the basis of their educational points score.

Educational points are allocated to the best results in five subjects (including Mathematics and English) obtained in one or more school leaving examinations, having regard to the relevant course entry requirements. Generally demand exceeds the number of places available and qualifications above the minimum are required.

Applicants are selected on the basis of their school leaving examination results, (see page 11 for DIT Points system), performance at interview and where appropriate, relevant work experience and knowledge of the career for which the course prepares students.

An applicant will be offered a place in the highest of his course preferences for which he is qualified (if any). An applicant who has been offered a place in one of his course preferences is excluded from further consideration for any course which is lower in his order of preference than the one in which he has been offered a place. This means that while an applicant may subsequently move upwards in his order of preference (if places



become available) he will not be considered for a place in a course which is a lower preference than that already offered.

An applicant who is being offered a place on a course will be sent a formal offer together with the necessary instructions regarding the acceptance procedure. It will be necessary to reply to the offer within a short period of time and to pay a deposit to secure a place.

An applicant who is being offered a place in a course which is not his 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.

It is hoped to make offers during the week commencing 11th September in the case of courses where interviews form part of the selection process.



The Principal of the College Mr. Michael O'Donnell; the chairman of College Council and CDVEC, Councillor Patrick Carey; the Minister for Education, Mrs. Mary O'Rourke TD; the Minister for Sport, Mr. Frank Fahy TD; and the Chief Executive Officer of CDVEC, Mr. Liam Arundel, in the new College courtyard.

## COURSE FEES, GRANTS AND SCHOLARSHIP

### COURSE FEES SESSION 1988/89

#### Irish and other EEC Students\*

Wholetime Professional/Degree Courses	IR£
B101, B121, B122, B123, B124	†IR£865
B110, B111	†IR£695
<b>Wholetime Technician Courses</b>	
B102, B114, B116, B120, B130, B131, B150, B171	†IR£435
B115, B126, B127, B128 (first and second years)	†IR£475
B115, B126, B127, B128 (third year)	†IR£487
Late Registration Fee	IR£30
College Examination Entry Fee	IR£27
NCEA Examination Entry Fees	IR£40/52

† Includes College Examination Entry Fees

\* Foreign Students Non-EEC Countries IR£1,865

\* Students who are enrolled through Irish Government Agencies may be admitted on paying the same fees as Irish students. The foreign student fee is applicable to all other non-EEC nationals.

Fees are payable on enrolment 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. ALL COURSES AND EXAMINATION FEES QUOTED ARE SUBJECT TO REVISION.

#### Grants and Scholarships

(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 are eligible to apply to the Vocational Education Committee of the area where their parents or guardians normally reside for a VEC Scholarship. Information on eligibility conditions and application forms are available from the appropriate Vocational Education Committee.

(c) **ESF Training Grants:** ESF (European Social Fund) training grants may be available to Irish students aged between 16 and 25 years while they are pursuing certain two 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 were included in the scheme in the 1988/89 session were B114, B115, B116, B126, B127, B128, B130, B150 and B171 and are marked by a double asterisk(\*\*) in the Table on Page 0. The grant covers tuition fees and a payment of £14-16 or £35-56 per week, depending on the place of normal family residence of the student.



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

(e) **G.H. Minet Insurance Co.** 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 is valued at £1,000 per annum. Further details are available from the Principals Office.

(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 meritorious performances in each year of their course. The BETA Silver Medal is awarded to the outstanding Engineering graduate each session.

(g) **McInerney Scholarship:** To mark the seventy-fifth anniversary of its establishment and its close association with the College, the firm of Thomas McInerney & Co. 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 course. Two scholarships each valued at £500 are awarded annually on the nomination of the College.

(h) **AIB Bursaries:** AIB, in association with the Association of Vocational Education Colleges has initiated a series of bursaries, each valued at £1,000 to support and encourage students who have already successfully completed a Certificate course in a VEC College and wish to transfer to a Diploma or a Degree level course in the same sector. Eligible candidates must already have achieved a high level of performance and not be in receipt of any other grant or scholarship.

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

## AWARDS AND ACCREDITATION OF COURSES

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

Since 1972 National Certificate and Diploma awards have been made to those graduating from the 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 Technician course.

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



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 architectural graduates having received their BArch Sc Degree Awards.



## OUTLINING OF FULL TIME COURSES

### B101 B101 ARCHITECTURE – DIPLOMA/DEGREE

**C.A.O. 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.

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

Applicants will be required to undertake an aptitude test and, if successful in this, they are also interviewed as part of the selection process.

#### Course of Study:

**First Year:** Studio Work; Physics 1, Chemistry 1, Mathematics & Statistics, Civilisation Studies 1, Theory of Architecture, Mechanics, Building Construction 1, 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 and 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 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 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. Graduates from the course to date have found employment either in private practice or in the public service. Some 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

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.

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



<b>Course of Study</b>	Constructional Projects, Surveying & Levelling, Mechanics & Structures, Building Construction, Graphics & Geometry, History & Theory of Architecture, Building Science & Materials, Computer Applications and Crafts.
<b>First Year</b>	Constructional Projects, Surveying & Levelling, Structures, Building Services, Building Construction, Building Science & Materials, System Building & Prefabrication, Computer Applications and Crafts.
<b>Second Year</b>	Constructional Projects, Construction Technology, Building Materials, Structures, Building Contracts, Architectural Practice & Procedure Specifications, Computer Applications and Crafts.
<b>Third Year</b>	

**Awards**

Graduates from this course are eligible for the following award: **Architectural Technician Diploma (Dublin Institute of Technology).**

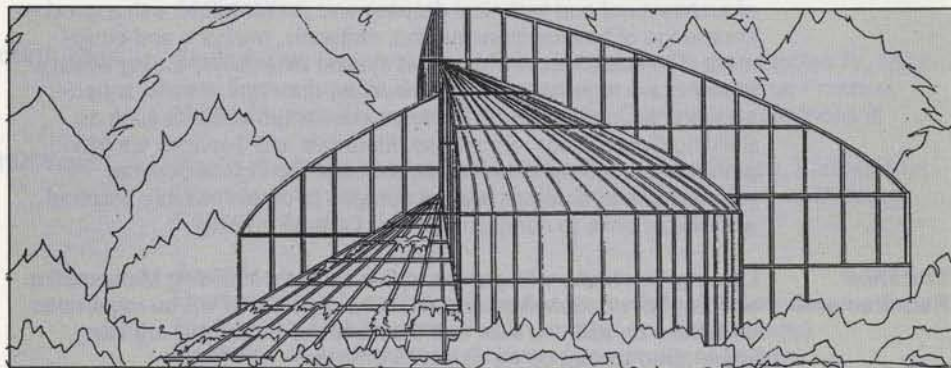
This Diploma is recognised for Technician Membership by both the Incorporated Association of Architects and Surveyors, and the Royal Institute of the Architects of Ireland. It is also recognised for Associate Membership of the British Institute of Architectural Technicians (BIAT) and for full Membership 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.**



Architectural Design project.

**B110 PROPERTY ECONOMICS – DIPLOMA/DEGREE**

**CAO Course Code FT03**

This is a four year wholetime 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. It is designed for those who wish to work 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.

**Entrance Requirements:**

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

**Course of Study**

<b>First Year</b>	Urban Sociology, Economics, Quantitative Methods, Valuations and Professional Development, Land Surveying, Construction Technology, Law.
<b>Second Year</b>	Law; Construction Technology, Property Management and Marketing, Quantitative Methods, Valuations, Planning, Economics.
<b>Third Year</b>	Maintenance of Buildings, Valuations, Urban Economics, Planning, Law, Taxation, Investment Analysis. During this year students undertake a major integrated project.
<b>Fourth Year</b>	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).**

**Recognition by Professional Bodies**

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 Surveyors, 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.

### B111 CONSTRUCTION ECONOMICS – DIPLOMA/DEGREE

#### C.A.O. Course Code: FT02

This is a four year wholetime course which prepares students wishing to make their careers in Construction Economics. It is designed for those who wish to work as quantity surveyors and economics advisors in the construction industry or as building development co-ordinators and building managers. The course provides a sound general education in the different aspects of this field with emphasis on practical construction economy and, in consequence, the course incorporates such project work. Students are 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.

#### Entrance Requirements:

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

#### First Year:

##### Course of Study:

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

#### Second Year:

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

#### Third Year:

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

#### 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)**

### Recognition by Professional Bodies

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

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

The courses and careers in the discipline of Surveying call for an interest and ability in the financial and legal aspects of the construction industry, and in the managerial skills applied to building and property developments. 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**

This is a wholetime 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.

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

**First Year** **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.

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

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

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)**

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

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

**Career Opportunities**

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**

This wholetime 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 it is an important element in the overall assessment.

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

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

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

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

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

Field camps are conducted at the end of both the First Year and



Second Year. In addition students are expected to gain practical experience during the summer vacation.

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

**Recognition by Professional Bodies** 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 specialise in these.

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



Geo Surveying students using a stereo comparator.

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

This course has been developed to prepare students for a DIT Certificate in Auctioneering and Estate Agency after two years of wholtime study.

It is envisaged that those holding the Certificate may proceed further to a Diploma award on a part-time or block release basis over a further twelve month period while in suitable employment. They will be required to undertake a prescribed course of study and course assignments and complete further examinations and a dissertation on an appropriate topic.

**Entrance Requirements** The minimum entrance qualifications required for entry are: The Irish Leaving Certificate with passes in five subjects including Mathematics and English, or an equivalent qualification.

**First Year** **Course of Study** Valuations, Law, Economics, Building Construction, Complementary Studies, Computer Appreciation.

**Second Year** Valuations, Law, Planning, Professional Practice and Procedure, Building Construction, Property Development and Finance.

**Third Year** Enter into suitable employment, undertake prescribed study, carry out assignments and complete examinations and a dissertation on an appropriate topic.

**Awards** Students who successfully complete the course are eligible for the following awards:  
**Certificate in Auctioneering and Estate Agency (Dublin Institute of Technology)**  
**Diploma in Auctioneerin, Estate Agency and Valuation (Dublin Institute of Technology)**

**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, economics and physical framework within which the property market functions. It also aims to give the basic skills needed to practice as an auctioneer.

**Recognition by Professional Bodies** 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 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.**

**B171 BUILDING MAINTENANCE TECHNICIAN CERTIFICATE COURSE**

This new 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 the 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 Building Maintenance and Inspection, Building Supplies, Technical Sales and related activities.

**Entrance Requirements**

- (a) Leaving Certificate with passes in five subjects including Mathematics and English. Special consideration will be given to applicants who have studied Building Construction as a Leaving Certificate subject.
- (b) Equivalent qualification and suitable experience preferably in the construction sector.

An interview will form part of the selection process.

**First Year**

**Course of Study**

Construction Technology I, Building Science I, Building Measurement and Inspection, Construction Drawing, Building Services, Mathematics and Computer Programming, Communications and Business Administration I and Construction and Maintenance Skills.

**Second Year**

Construction Technology II, Building Science II, Quantities and Estimating, Building Services and Maintenance, Computer Applications and Utilisation, Communications and Business Administration II, Building Law and Regulations, and Construction and Maintenance Skills.

**Awards**

Students who successfully complete the course are eligible for the Award of a **Buildings Maintenance Technician Certificate (Dublin Institute of Technology)**.

**Career Opportunities**

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

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

**Dept. in Charge: Construction Trades.**



Brickwork projects in one of the College's workshops



## B120 PRELIMINARY ENGINEERING

This is a one-year full-time course commencing each year in mid-September. Its main purpose is to prepare students for entry into the first year of the College's Engineering Diploma/Degree Courses B121, B122, B123, B124.

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

### Course of Study:

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

### Examination and Other Requirements

*Students are required to:-*

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

### Admission into Professional Engineering Courses

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

**Dept. in Charge: Engineering Technology**

## B121 BUILDING SERVICES ENGINEERING – DIPLOMA/DEGREE

**C.A.O. Course Code: FT04** This is a new four year whole-time course which prepares students with a suitable aptitude and educational background for a career in Building Services Engineering. It is a broadly based course in the early years, and becomes more specialised in Building Services Engineering in the later stages. Project work is a major element in the programme. At third year a joint project with Architectural and Surveying students is undertaken and in 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.

**Entrance Requirements** The minimum educational qualifications required for entry are the Irish Leaving Certificate in six subjects with Grade C or higher on higher

level papers in Mathematics and a suitable Science subject (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics, Construction Studies and Engineering) and a pass in four other subjects which must include English, or equivalent qualifications.

### Course of Study

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

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

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

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

### Awards

Graduates are eligible for the following awards:

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

It is expected that they will also be eligible for membership of the Institution of Engineers of Ireland and acceptable for entry to appropriate 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 the Mechanical and Electrical Services necessary to ensure the efficient operation of modern buildings. They form part of the team of professionals involved with construction projects and work closely with Architects, Quantity Surveyors and Structural Engineers.

### Recognition by Professional

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.**



**B122 MECHANICAL ENGINEERING – DIPLOMA/DEGREE**

**C.A.O. Course Code: FT04** This is a four year wholetime course which prepares students with a suitable aptitude and educational background for a career in Mechanical Engineering. It is a broadly based engineering course over the first two year with specialisation in the third and final years and it requires a good mathematical and analytical ability. Project work is an important element in the programme and commences in the second year. A major project is undertaken in the final year on which both a thesis and oral presentation are required. Laboratory work is undertaken throughout the course. Students are encouraged to obtain suitable summer employment in engineering to complement their studies.

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

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

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

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

**Final Year** **Common Subjects:** 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)**

**Recognition by Professional Bodies** 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 industries and with the maintenance of plant and equipment.

Graduates have good prospects 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.**

**B123 PRODUCTION ENGINEERING – DIPLOMA/DEGREE**

**C.A.O. Course Code: FT04** This is a four year wholetime course which prepares students with a suitable aptitude and educational background for a career in Production Engineering. It is a broadly based engineering course over the first two years with specialisation in the third and final years in Production Engineering. It requires a good mathematical and analytical ability. Project work is an important element in the programme and commences in the second year. A major project is undertaken in the final year on which both thesis and oral presentation are required. Laboratory work is undertaken throughout the course. Students are encouraged to obtain suitable summer employment in engineering to complement their studies.

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

**First Year** **Course of Study** Mathematics, Mechanics, Engineering Drawing, Engineering Technology, Physics, Materials Science, 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, Economic and Social Studies, Workshop and Laboratory Work.

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**Third Year** Mathematics and Computing, Mechanics of Materials, Mechanics of Machines, Control Engineering, Management Studies, Electro-technology, 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 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)**

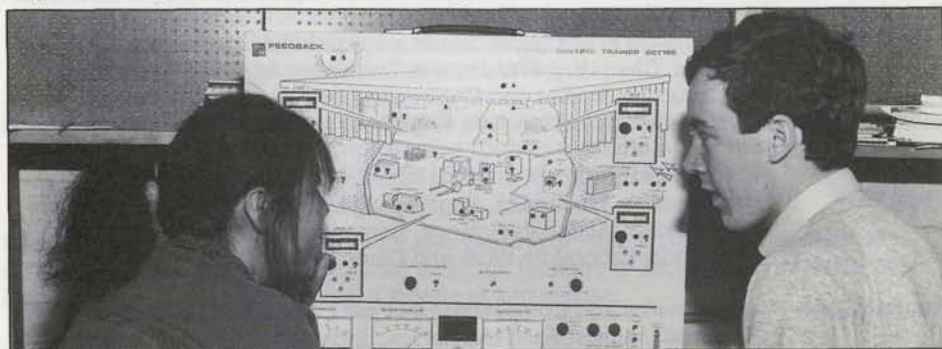
**Recognition by Professional Bodies** They are eligible for membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate university post-graduate courses in Ireland and abroad.

#### **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.**



Building Services Engineering students at work on a project.

## **B124 STRUCTURAL ENGINEERING – DIPLOMA/DEGREE**

**C.A.O. 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 of the special topic studied are required. The course requires a good mathematical and analytical ability. Students are encouraged to obtain suitable summer employment in the industry to complement their studies.

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

#### **Course of Study**

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

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

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

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

**Awards** Graduates are eligible for the following awards:  
**Diploma in Engineering (Dublin Institute of Technology)**  
**Bachelor of Science (Engineering) (University of Dublin)**

**Recognition by Professional Bodies** 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 Engineer-



ing. Structural Engineers are concerned with the design and construction of buildings, bridges and special structures. They form part of the team of professionals involved with construction projects and in this way work closely with Architects, Quantity Surveyors and Building Services Engineers.

Graduates have prospects of employment with structural design offices, contractors, research organisations, as well as state and semi-state agencies and local authorities. Some pursue 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**

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

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

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

**First Year** **Course of Study** 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 (Steel), Structural Design (Concrete), Municipal Engineering, Mathematics, Computing, Management Studies and a Project.

**Examination and Other Requirements** (a) Students take a College examination at the end of each year which is moderated by the National Council for Educational Awards, and 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 State of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level requirement 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.**



**B127 BUILDING SERVICES ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA**

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

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

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

**First Year** **Course of Study** Mathematics, Mechanics, Engineering Science, Drawing, Instrumentation and Materials, Building Construction and Services, Computing and Complementary Studies.

**Second Year** Mathematics, Management Studies, Electrotechnology and Controls. Process Plant Technology I, Environmental Engineering, Environmental Plant Design, Ancillary Services, Computing and Project Work.

**Third Year** Mathematics, Management Studies, Electrotechnology and Controls, Process Plant Technology I, Environmental Engineering, Environmental Plant Design, Ancillary Services, Computing and Project Work.

**Examination and Other Requirements** (a) Students take a College examination at the end of each year, which is moderated by the National Council for Educational Awards and The Dublin Institute of Technology.  
(b) they are required to submit reports on their projects and laboratory work.

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

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

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

**Career Opportunities**

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

Graduates have 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.**



Site visit for construction students



## MECHANICAL ENGINEERING TECHNICIAN – CERTIFICATE AND DIPLOMA

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

### Entrance Requirements

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

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

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

### Course of Study

#### First Year

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

#### Second Year

Mathematics, Thermal and Fluid Plant, Electrotechnology and Controls, Complementary Studies, Mechanics, Drawing & 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

- 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:  
**(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).**

### Recognition by Professional Bodies

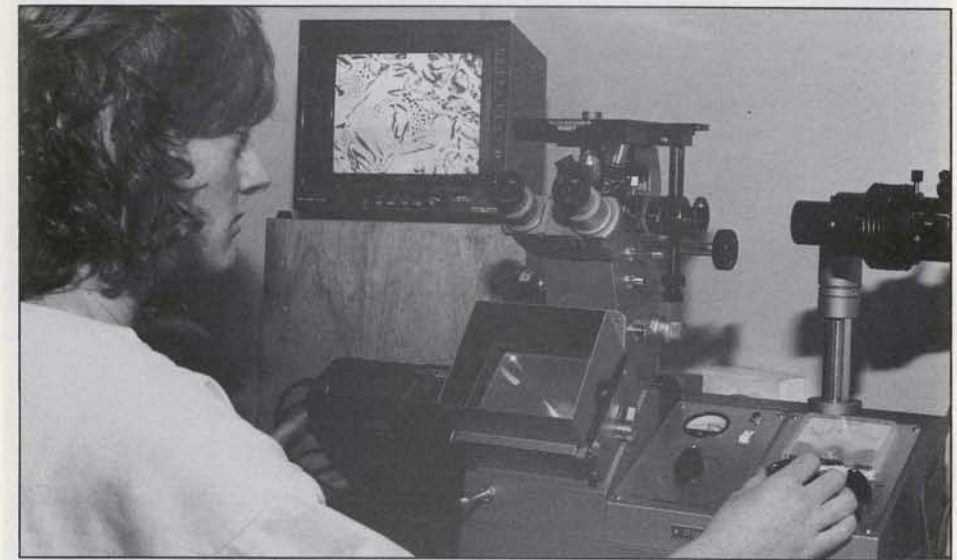
Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma Stage are at Technician Engineer level and can qualify for the non-Corporate Associateship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

### Career Opportunities

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

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

Dept. in Charge: Engineering Technology.



Metallographic microscope in use in one of the College laboratories.



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

**Entrance Requirements**      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.

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

**Course of Study**

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

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

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

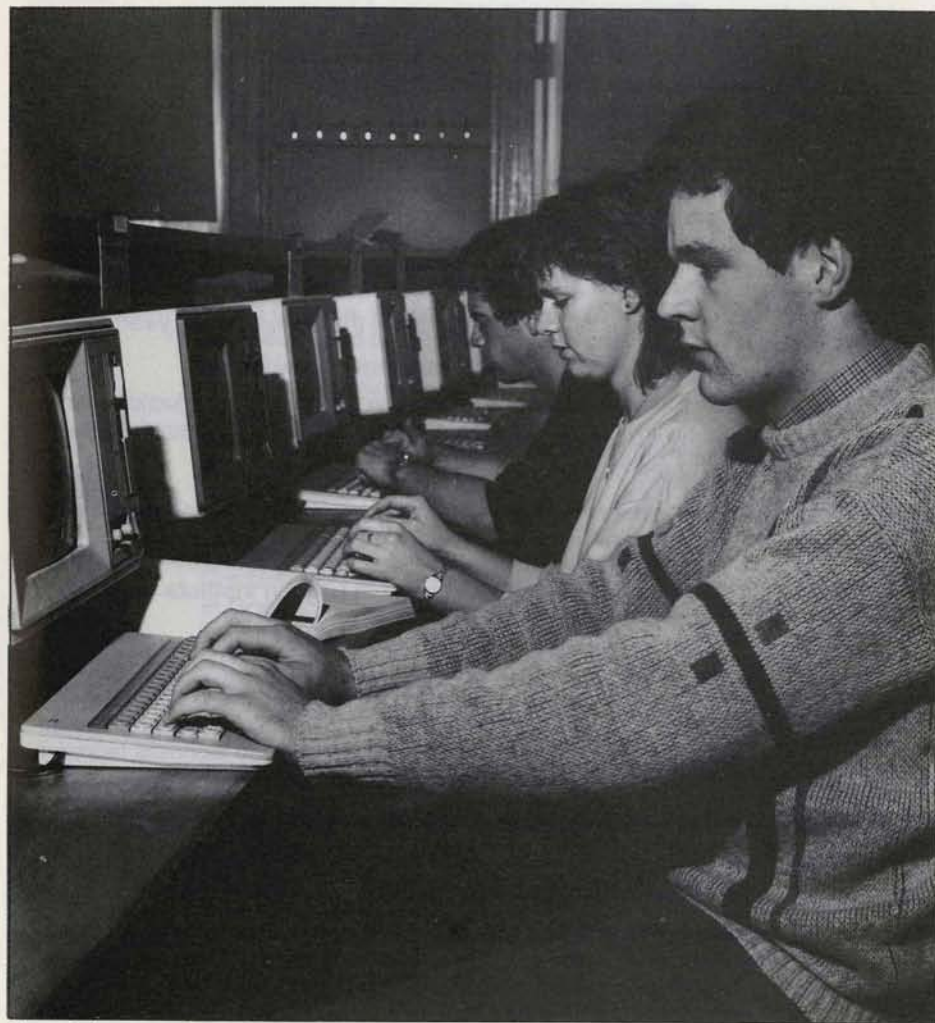
**Awards**      Graduates of the course are eligible for the following awards:  
**Technician Certificate in Transport Engineering (Dublin Institute of Technology)**  
**Diploma in Motor Industry Management (Dublin Institute of Technology).**

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

**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 positions in the Retail Motor Industry or Transport Industry.

**Dept. in Charge: Automobile Engineering.**



At work in one of the College's Computing Laboratories



B130

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

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

#### Entrance Requirements

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

**Diploma Stage (Third Year):** Certificate in Printing with Credit 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, Accounting, Costing and Estimating, Marketing and Sales.

The following subjects are included in the Diploma (third year) programme:-

Management Accountancy, Marketing, Estimating, Production Planning, Quality Control, 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)
- (b) Diploma in Printing Management (Dublin Institute of Technology).

#### Career Opportunities

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

**Dept. in Charge:** Printing and Graphic Communication.

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 the 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 designers.

(1) National Diploma in Design of the National Council for Educational Awards

or

(2) National Certificate in Design of the National Council for Educational Awards with distinction or credit

or

(3) National Certificate in Design of the National Council for Educational Awards with a pass and one year's relevant work experience

or

(4) Equivalent qualifications.

Intending students will be expected to present a portfolio of recent work.

**Applications for admission to this course must be made directly to the College.** Applicants must hold one of the above Third Level qualifications to be eligible for admission. The course is not open to school leavers for direct entry.

#### Course of Study

Print Planning, Electronic Composition, Camera Work, Paste-Up and Planning, Graphic Reproduction, Printing Processes, Estimating and Administration.

#### Awards

Graduates of the course are eligible for the following award: **Diploma in Graphic Reproduction Technology (Dublin Institute of Technology)**

#### 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 Communication.