1987

College of Technology, Bolton Street Prospectus 1987-88

City of Dublin Vocational Education Committee

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CALENDAR — SESSION 1987-88

Term 1

SEPT. Tuesday 1 Commencement of Session.
       Wednesday 2 Commencement of apprenticeship courses except where otherwise arranged.
       Monday 14 Interviews and enrolments for Part-time & Evening Courses commence except where otherwise arranged.
       Monday 21 Whole-time classes commence except where otherwise arranged.
       Wednesday 23 Votive Mass. All classes closed.
       Monday 28 Part-time and evening classes commence except where otherwise arranged.

DEC. Friday 18 Final class meetings of first term.

1988

JAN. Monday 4 All classes resume.
       Friday 29 Latest date for receipt of College examination entries.

FEB. Monday 1 Closing date for applications to whole-time courses for 1988/89 session through CAO Office.
       Friday 12 Closing date for applications to whole-time courses for 1988/89 session through DIT Admissions Office.
       Friday 26 Latest closing date for applications to whole-time courses through the DIT Admissions Office for 1988/89 session on payment of late application fee.

MAR Tuesday 29 Final class meetings of second term.

Term 3

APRIL Monday 11 All classes resume.
       MAY Monday 16 Commencement of College Summer examination programme except where otherwise arranged.
       JUNE Monday 20 All classes terminate except where otherwise arranged.

Block Release Dates for Engineering Trades.

Term 1: 1987 Monday 28 September to Friday 11 December
Term 2: 1988 Monday 4 January to Friday 18 March
Term 3: 1988 Monday 21 March to Friday 19 June (with a break for Easter).

Classes will be closed on Public Holidays during the session (viz. 26 October, 17 March, 6 June) and on Church Holidays (viz. 8 December, 12 May, 2 June) except where otherwise arranged.

NOTE:— (a) This Calendar is subject to alteration during the session.
(b) The information in this prospectus 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 information given in this prospectus without prior notice.

PROSPECTUS 1987-88

COISTE GAIRM-OIDEACHAIS
CHATHAIR ÁTHA CLIATH

INSTITIÚID TEICNEOLAÍÓCHA
BHAILE ÁTHA CLIATH

COLÁISTE
TEICNEOLAÍÓCHA
SRÁID BHOLTÚIN
BAILE ÁTHA CLIATH 1

Dublin Institute of Technology
Bolton Street
Dublin 1

Centres
College of Technology Bolton Street Dublin 1 Phone 727177
Annex Longford House Little Longford Street Dublin 2 Phone 751183
School of Trades Yarnhall Street Dublin 1 Phone 727177
Annex 23–27 Beresford Street Dublin 7 Phone 727157

Principal: MICHAEL O’DONNELL
BE, BComm, MEngSc, CEng, FIEI

Chief Executive Officer: W. J. Arundel, BComm, HDip.
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The College operates under the City of Dublin Vocational Educational Committee. The CDVEC
is assisted by a number of committees, including a Governing Body for the Dublin Institute of
Technology, College Councils for each of its six Colleges, a joint Academic Council and an
Apprentice Education Board.

Members of CDVEC
Councillor Liam Fitzgerald, (Chairman) 117 Tonlegee Road, Raheny, Dublin 5.
Councillor Michael Donnelly (Vice-Chairman), 33 Glendoher Avenue, Rathfarnham, Dublin 16.
Councillor Andrew Callaghan 52, Adelaide Road, Dublin 2.
Councillor Patrick Carey 69 Bourne View, Ashbourne, Co. Meath.
Michael Cotter Setton, 51 Rochestown Avenue, Dun Laoghaire, Co. Dublin.
Patrick Donegan, 121 Shanard Road, Dublin 9.
Barry Early PC 161 Sutton Park, Dublin 13.
Councillor Mary Hanlin B Simmonscourt Castle, Ballsbridge, Dublin 4.
Aidan Kerins, c/o Students Union, College of Technology, Bolton Street, Dublin 1.
Seán Lyons, 30 Coolmine Woods, Clonsilla Blanchardstown, Dublin 15.
Alderman Thomas MacGiolla T.D, 49 St. Laurances Road, Chapelizod, Dublin 20.
Councillor Charles McManus 12 Walkinstown Drive, Dublin 12.
Councillor Michael O'Halloran PC, 141 Ardeia Road, Dublin 5.
Seamus Uas Puirséil 16 Hampton Cove, Balfe Brigh, Co. Atha Cliath.
Chief Executive Officer W.J. Arundel

Members of DIT Governing Body
Michael Cotter NT BA MIE (Chairman)
Councillor Liam Fitzgerald TD
Councillor Andrew Callaghan
Councillor Patrick Carey
Councillor Michael O'Halloran PC
Seamus Uas Puirséil
Michael O'Donnell BE
Matthew Connolly
Tom Fitzpatrick
Gerry Shanahan
Wolfgang Truetzschler
Chris Wall

Members of College Council
Councillor Patrick Carey (Chairman)
Mr. John Crimmins
Mr. Patrick Donegan
Mr. H. B. Early
Alderman Tomás MacGiolla T.D.
Councillor Andrew Callaghan
Mr. Richard Kearney
Mr. Aidan O'Mara
Mr. Charles O'Flourke
Mr. Michael O'Donnell (College Principal)
Miss Alice Prendergast, Staff Representative
Mr. Aidan Kerins, Student Representative
GUIDE TO COURSES

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<td>Mechanical Engineering Craft Studies</td>
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<tr>
<td>E144A</td>
<td>Inspection &amp; Quality Control</td>
</tr>
<tr>
<td>E144B</td>
<td>Inspection</td>
</tr>
<tr>
<td>E144C</td>
<td>Quality Control</td>
</tr>
<tr>
<td>E154A</td>
<td>Aeronautical Engineering Craft Studies</td>
</tr>
<tr>
<td>E154B</td>
<td>Aeronautical Engineering Craft Studies (Mechanical)</td>
</tr>
</tbody>
</table>

Whole-time Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D80</td>
<td>Technician Certificate in Printing/Diploma in Printing Management</td>
</tr>
<tr>
<td>D81</td>
<td>Diploma in Graphic Reproduction Technology</td>
</tr>
</tbody>
</table>

Part-time Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D80A</td>
<td>Printing Technician Certificate</td>
</tr>
<tr>
<td>D190</td>
<td>Compositors' Work</td>
</tr>
<tr>
<td>D191</td>
<td>Bookbinding</td>
</tr>
<tr>
<td>D192</td>
<td>Lithography</td>
</tr>
<tr>
<td>D199</td>
<td>Phototypesetting</td>
</tr>
<tr>
<td>D200</td>
<td>Screen Process Printing</td>
</tr>
<tr>
<td>D98</td>
<td>Inplant Printing</td>
</tr>
</tbody>
</table>

Evening Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E83</td>
<td>Introduction to Printing Technology</td>
</tr>
<tr>
<td>E84</td>
<td>Cost Accountancy for Printers</td>
</tr>
<tr>
<td>E85</td>
<td>Cost Estimating for Printers</td>
</tr>
<tr>
<td>E86</td>
<td>Paper Technology and Marketing</td>
</tr>
<tr>
<td>E87</td>
<td>Design for Printing</td>
</tr>
<tr>
<td>E88</td>
<td>Introduction to Management (Graphic Industries)</td>
</tr>
<tr>
<td>E89</td>
<td>Packaging Technology</td>
</tr>
<tr>
<td>E96</td>
<td>Print Sales</td>
</tr>
<tr>
<td>E180</td>
<td>Book and Archive Restoration</td>
</tr>
<tr>
<td>E182</td>
<td>Print Finishing</td>
</tr>
<tr>
<td>E191</td>
<td>Bookbinding and Print Finishing (Retraining)</td>
</tr>
<tr>
<td>E192</td>
<td>Lithography and Photo-Lithography (Retraining)</td>
</tr>
<tr>
<td>E195A</td>
<td>Electronic Composition</td>
</tr>
<tr>
<td>E195B</td>
<td>Paste-up/Planning/Camera</td>
</tr>
<tr>
<td>E200</td>
<td>Screen Printing</td>
</tr>
</tbody>
</table>
INTRODUCTION

**Historical Note:** In 1887 the first City of Dublin Technical School was established, and from this initiative the present system of schools and colleges later developed. The College building in Bolton Street was opened in 1911 and provided for education in Building, Engineering and Printing, lines of specialisation which have continued down to the present day.

The first whole-time day courses commenced in 1920 with the inauguration of an Apprentice Scholarship Scheme. With the establishment of an Irish Government, technical education came within the province of the Department of Education and a Commission set up in 1928 made recommendations on developments which led to the Vocational Education Act of 1930. The system of schools and colleges expanded in succeeding decades under the City of Dublin Vocational Education Committee, and the Bolton Street College was enlarged by new buildings in 1958, 1963, 1981 and 1987. The development of professional and technician courses began in the 1940s and these over the years gained the recognition of professional and vocational bodies in Ireland and other countries.

**Dublin Institute of Technology:** In 1978 the Dublin Institute of Technology was established by the Vocational Education Committee to co-ordinate the work of its six colleges. Bolton Street is the largest of the colleges, the other constituent Colleges being the College of Technology Kevin Street, the College of Commerce, the College of Catering, the College of Music and the College of Marketing and Design. Its work and awards have attained national and international recognition by academic, professional and industrial Institutions.

Over 1,500 teaching staff are primarily concerned with teaching 24,000 students attending wholetime and part-time third level and apprentice course. The Institute is involved in research and development, and there is a growing demand for advisory and consultative services from institutions in developing countries, as well as in Ireland.

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

**College of Technology Bolton Street**

The College provides a wide range of courses on a full-time, part-time evening and block release basis, as well as some short courses. It has a total teaching establishment of 350 and caters for over 6,000 students. The College aims to provide an integrated system of education from craft apprenticeship to degree and professional levels in the sectors for which it has special responsibility. These include the Construction, Engineering, Printing and Transport industries and it plays an important national role in responding to their needs.

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

**College Executive Board:** The Colleges Executive Board helps in co-ordinating the work of the College and its academic programmes. It comprises the Principal, Heads of Schools, and Heads of Departments.

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

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

(a) DEGREE LEVEL COURSES IN C.A.O. SCHEME

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

<table>
<thead>
<tr>
<th>College Code</th>
<th>CAO Code</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>D2A</td>
<td>Architecture</td>
</tr>
<tr>
<td>D3</td>
<td>D5A</td>
<td>Property Economics</td>
</tr>
<tr>
<td>D4</td>
<td>D42M</td>
<td>Construction Economics</td>
</tr>
<tr>
<td><em>D42P</em></td>
<td>D42P</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td><em>D42S</em></td>
<td>D42S</td>
<td>Production Engineering</td>
</tr>
<tr>
<td><em>D42B</em></td>
<td>D42B</td>
<td>Structural Engineering</td>
</tr>
<tr>
<td><em>FT04 ENGDEG</em></td>
<td>D44</td>
<td>Building Services Engineering</td>
</tr>
<tr>
<td>FT01 ARCHDEG</td>
<td>D46C</td>
<td>Civil Engineering Technician Certificate/Diploma</td>
</tr>
<tr>
<td>FT03 EECNDEG</td>
<td>D46H</td>
<td>Building Services Engineering Technician Certificate/Diploma</td>
</tr>
<tr>
<td>FT02 ECNDEG</td>
<td>D46M</td>
<td>Mechanical Engineering Technician Certificate/Diploma</td>
</tr>
<tr>
<td>FT04 ENGDEG</td>
<td>D80</td>
<td>Printing Technician Certificate/Diploma</td>
</tr>
</tbody>
</table>

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

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

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

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

CAO Closing Date: Irish Applicants — 1st February 1988 (5.15 p.m.)

Application Fees:
Irish Applicants ........................................ 1RE18.00
Late Application Fee ....................................... 1RE40.00

Applicants may not introduce course FT01 onto an application form for the first time after the 1st March 1988.

(b) TECHNICIAN & OTHER WHOLETIME COURSES

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

Method of Application

The DIT application process 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 dually 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 12th February 1988 (26th 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 Fee:

Applications received on or before 12th February 1988 ........................................ 55*
Applications received between 13th Feb. and 26th Feb. 1988 .................................. 10
Applications received between 27th Feb. and 1st June 1988 .................................... 40
Applications received after 1st June will not be considered

*(Subject to Revision)

Part 2:
Applicants other than transfeere, mature and overseas applications (see page 17) will be sent Part 2 of the DIT application form during the last week of July, 1988 to the permanent home address given on their Part 1 DIT application forms.
The date by which the Part 2 DIT application from must be returned to the Institute will be clearly shown on it when issued. It is likely that this will be around 21st August, 1988.

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 1988 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 Part 2 DIT application form is an essential part of the application procedure. Candidates not returning it to the DIT Admissions 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.

(c) PART-TIME AND EVENING COURSES
It is not necessary to make application for admission to part-time and evening courses in advance of the enrolment date for the course.

Enrolment will commence on 14th September 1987, and intending applicants should report in person to the College during the scheduled enrolment hours.

Admission and Enrolment

Before acceptance of an application for admission to classes or courses applicants may be required to attend for interview. The College may also require an applicant to sit an aptitude or other test.

Successful applicants for wholetime courses will be notified immediately. Students attending for registration and enrolment are required to have the following:

(a) Letter of admission to the course, or CAO offer notice Part 2.
(b) Three copies of a recent passport type photograph signed on the back.
(c) CAO or DIT offer notice showing bank stamp.

The latest date for completing enrolment for classes commencing in the first term is 31st October or such earlier date as may be prescribed. Only in exceptional circumstances will applicants be admitted after that date.

All students are required to have a current College Identity Card. Students who were enrolled in the College in previous sessions must surrender the Identity Card previously issued to them. The Identity Card is the property of the College and may be demanded by the College or its Officers at any time. Students are therefore required to have their identity cards with them at all times while in the College. A charge of £2 will be made for the replacement of a College Identity Card and new photographs will be required. Change of address or place of employment should be reported to the Registration Department immediately.

Change of classes or courses may be made only with the consent of the Head of Department.

Applicants are placed in order of educational score merit in accordance with the points system shown on page 16, allocated to the best results in five subjects (technician courses) or six subjects (degree level courses) obtained in one or more school leaving examinations, having regard to the relevant course entry requirements. Generally demand exceeds the number of places available and qualifications above the minimum are required.

In the case of the Architectural courses (i.e. D1 and D8) applicants will be required to take a suitability test and this will be used in determining which applicants are called for interview. The results of suitability tests and interviews will be combined with the total educational points scored in the best five or six subjects referred to above to give an overall rating. It is anticipated that these tests will be held in April 1988. Applicants who have not been notified by the end of April as to when they should take their test should contact the College.

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

Applicants should note carefully the specific course entry requirements before entering the course preference order in the application form.
POINTS WEIGHTING FOR DIFFERENT SCHOOL EXAMINATION GRADES

<table>
<thead>
<tr>
<th>Points</th>
<th>LEAVING CERTIFICATE</th>
<th>N.U.I. MATRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>A</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>B</td>
<td>-</td>
</tr>
<tr>
<td>6</td>
<td>C</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>4</td>
<td>D</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>-</td>
<td>B</td>
</tr>
<tr>
<td>2</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>1</td>
<td>-</td>
<td>D</td>
</tr>
</tbody>
</table>

Courses FT04
Enhanced points weighting for Engineering Courses FT04 which are awarded only in respect of Higher Leaving Certificate Papers.

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.

Evaluating educational scores for the Engineering Technician Courses D46C, D46H and D46M. Increased points are applied to Mathematics and a number of other subjects which have special relevance (viz Physics, Chemistry, Physics with Chemistry, Applied Mathematics, Building Construction, Technical Drawing and Engineering) in accordance with the following table:

<table>
<thead>
<tr>
<th>Leaving Certificate</th>
<th>N.U.I. Matric</th>
<th>Leaving Certificate or Matric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Higher</td>
<td>Ordinary</td>
<td>General Subjects</td>
</tr>
<tr>
<td>A</td>
<td>-</td>
<td>9</td>
</tr>
<tr>
<td>B</td>
<td>-</td>
<td>7</td>
</tr>
<tr>
<td>C</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>-</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>D</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>-</td>
<td>B</td>
<td>3</td>
</tr>
<tr>
<td>-</td>
<td>C</td>
<td>2</td>
</tr>
<tr>
<td>-</td>
<td>D</td>
<td>1</td>
</tr>
</tbody>
</table>

SPECIAL CASES
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, available on request. When returning the completed form they should indicate clearly that they wish to be considered as a special case and include all documentary evidence available, including examination results, in support of their application.

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

(b) Overseas Students
Overseas students seeking admission to the College should apply to the Dublin Institute of Technology, using the standard application form available on request. When completed this should be forwarded with documentary evidence of qualifications in English (translations should be certified by an appropriate authority) showing subjects passed, levels and grades obtained.

Because of the large number of applications received each year from qualified Irish applicants, and the limited number of places available, the College regrets that it has to 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.

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

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

No application will be accepted from overseas applicants for admission to part-time day or evening courses unless the applicant is resident in Ireland.
(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
Applicants should request the College, where they have studied for these awards, to forward in confidence to the Admissions Office a full transcript of results (including subjects studied and grades obtained) not later than July 31st. The application will not be processed until this has been received. Only candidates with very high level of attainments have prospects of gaining admission because of the limited number of places available.

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

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**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 they 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 1986/87 session were D2A; D5A; D12; D21; D44; D46C; D46H; D46M; D80 and are marked by a double asterisk (*) in the Table on page 13.
(d) AnCO: AnCO, the Industrial Training Authority, offers a number of scholarships and grants each year to those pursuing Technician courses in the Engineering and Construction fields. Information on the scholarships and grants is available from AnCO, Box 456, Baggot Court, Dublin 2.

(e) Ivan Webb Scholarships: The Construction Industry Federation and the Master Builders Association have established a scholarship fund to commemorate the late Ivan Webb, a former Council member of both bodies who was killed in the Stansted air disaster. The object of the scholarship fund is to assist students in pursuing their courses of study. The scholarships 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.

(f) The 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.

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

(h) 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.

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

Trade Courses

Trade courses are provided for the sole purpose of supplementing the practical trade training of persons actually employed at and engaged in the various operations of the trade. The College realises that it is impossible for a person to learn a trade solely by attendance at these classes and is further of the opinion that the admission to the classes of persons not actually engaged in the trades would be not only of little use to such persons but would prejudicially affect the instruction of those for whom the classes have been organised.

Accordingly the College reserves the right to restrict enrolment in the trade practical classes to those persons who are actually employed in the several processes and operations of the trade. For admission to these classes proof of actual employment in the several processes and operations of the trade will be certificates to that effect from the Masters Association, the official Trade Unions of the trade concerned or AnCO. Employers are kept informed during the session of absences or lateness on the part of their apprentices. In addition, an end of session report on attendance and progress is issued to students and employers. Apprentices and employers are asked to note particularly that details of the employment and the attendance of all apprentices enrolled in release courses will be made available to AnCO — the Industrial Training Authority — whether or not the apprentices are registered with the body.

Classes

Day classes will normally be held during the period 9.00 a.m. to 1.00 p.m. and 2.00 p.m. to 5.00 p.m. each weekday. Evening classes will normally be held from 7.00 p.m. to 10.00 p.m. except where otherwise arranged.

Formation and Continuance of Classes

The College reserves the right to change any or all of the syllabus, the day and time of meeting of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some reason a teacher is unable to attend, classes may be cancelled, without notice.

Examinations

The College conducts its own examinations for a number of the professions and technician courses. These are moderated by external examiners and lead to College awards. The College also offers courses leading to examinations and awards of external bodies for which it is an approved examination centre. Students are required to acquaint themselves with the examination and promotion regulations of the course for which they enrol.

Entry Regulations

An examination entry fee of £25.00 is payable in respect of College sessional examinations and in the case of supplemental examinations a further fee of £25.00 is payable. Where examinations lead to an NCEA Certificate or Diploma, an additional fee is payable (for details see under National Council for Educational Awards).

Students should note that those not achieving a minimum average attendance of 75% in each subject of their course, without a satisfactory explanation, will be refused permission to sit College examinations.
Promotion to a higher year or stage in any subject is contingent on reaching the required standard in the sessional examination. General Candidates will be admitted to the Examination Room only on the basis of their appropriate admission letter, which is issued when and if an application for entry to the Autumn examinations is received by the College Examinations Office. Applications for entry to the Summer examinations and Autumn examinations must be made through the College Office in accordance with the closing dates as indicated on College Notice Boards. Students are required to submit regularly such project work and course work as may be prescribed by members of the academic staff and this will be taken into account in the assessment at the end of the session.

A laboratory notebook must be maintained by each student of a laboratory class. An assessment will be made at the end of the session of each student's progress in laboratory techniques and experimental ability which will count in the sessional examination in that subject.

Candidates will be admitted to the Examination Room only on production of the Identity Card issued by the College in addition to the appropriate admission letter which is issued when and if an application to sit the examination is approved by the College. Students seeking a re-check of an examination result should submit a written request, within two weeks of the publication of provisional results, specifying the grounds on which the request is made. Students wishing to appeal against an examination result must submit a formal written application on the standard form, available from the College Examinations Office, within two weeks of the publication of provisional results. Formal appeals must be accompanied by a fee of £25.00 and be submitted to the Principal or Examinations Secretary. The College accepts rechecks and appeals on the understanding that it may not be in a position to inform the student of the result prior to the date for entry or sitting a Supplemental Examination.

Examinations Secretary. The College accepts rechecks and appeals on the understanding that it may not be in a position to inform the student of the result prior to the date for entry or sitting a Supplemental Examination.

Other Examinations

The College is a centre for a number of external examinations including the Department of Education and the City and Guilds of London Institute. Application for entry to these examinations must be made through the College Office in accordance with the closing dates as indicated on College Notice Boards. In connection with the examinations of professional and other external bodies, students are advised to note the following:

1. Admission to a course in the College may not of itself entitle students to sit for examinations of external bodies. Students are themselves responsible for ensuring that they satisfy all the requirements of the examining body concerned.
2. Students are expected to acquaint themselves with the current regulations for the examinations which they propose to take.
3. Students must make the necessary applications and provide all documents that may be required.
4. The College Authorities will give assistance and advice in the above matters.

National Council for Educational Awards

The NCEA was established by the Government in 1972 and awards qualifications in a number of areas of study in non-university institutions. At present students in the Engineering and the Geosurveying Technician's Certificate and Diploma courses receive NCEA awards in addition to College awards. Additional examination entry fees are payable in respect of these awards as follows:—

First Stage £37.00, Certificate Stage £37.00 and Diploma Stage £48.00. These fees are subject to revision.

University of Dublin

The City of Dublin Vocational Education Committee and the University of Dublin have entered into a formal agreement by which degree awards of the University are available to students of the College who successfully complete certain courses in Architecture, Engineering and Surveying. Details relating to these awards are given under the individual course entries.

General Regulations

General regulations for Colleges and classes operating under the Authority of the City of Dublin Vocational Education Committee are displayed in the Entrance Hall. All students are subject to these regulations and the regulations of Dublin Institute of Technology, together with more specific College regulations.
General Information and Regulations

All College staff are authorised to enforce immediate disciplinary measures in respect of students whom they find violating the regulations of the College or otherwise misconducting themselves. The full co-operation of each student is required in order to maintain the dignity and discipline of the College.

Students are not permitted to smoke in the College classrooms, laboratories, lecture theatres, workshops, library or gymnasium. Parking of pedal and motor cycles in the space provided in the College grounds is normally permitted. Students are not permitted to bring cars into the College parking area.

Students may use the facilities of the College, including the Gymnasium, on the understanding that they do so at their own risk. Though all reasonable care is taken, the College accepts no liability for student property lost, stolen or damaged on the College premises or grounds.

Locker accommodation is available for a considerable number of students on payment of a fee of £10.00 per session. This includes a deposit of £5.00 returnable only if the locker is vacated within seven days of the expiry of the period for which the locker has been granted, i.e., before the end of the academic session.

Office Hours Office Hours: 9.00 a.m. to 12.45 p.m. and 2.15 p.m. to 5.00 p.m.

Cafeteria The college Cafeteria is open throughout the session for lunches, teas and morning and afternoon snacks.

Facilities

First Aid Service The College plans to develop a First Aid service during the 1987/88 session in co-operation with the Order of Malta.

Banking Facilities The College plans to develop a part-time banking facility on campus in co-operation with the Bank of Ireland during the 1987/88 session.

The Library The Library plays a vital part in the academic structure and programmes of the College. It provides a comprehensive information service, and study facilities for students and staff. Current Library holdings are approaching 40,000 volumes. The Library also receives 600 current journals as well as current bibliographies, and indexes and abstracts appropriate to our disciplines.

The Library maintains close links with the City of Dublin Public Library system and has access to their total holdings. It also has close links with the Libraries of An Foras Forbairtha, the Institute for Industrial Research and Standards, the Universities, other Research Institutes and, of course, the sister Colleges of the D.I.T. Through these links, photocopied material and books on interlibrary loan may be obtained. By arrangement, facilities may also be provided for staff and senior students to use these libraries for research purposes.

The Library contains an open access stack area, a periodicals and reference area, and study space for 400 readers. Most of the Library stock is available for loan. There is a coin operated photocopier and a microform reader/printer for readers use. Introductory lectures on the use of the Library will be given to any interested group by arrangement. Library publications include a current list of periodicals, a current contents list, a library guide, cumulated theses lists and new books lists.

Hours of Opening:
- Term I & II Monday to Friday 9.30 a.m. - 9.30 p.m.
- Saturday 9.30 a.m. - 1.00 p.m.
- Third Term Monday to Friday 9.30 a.m. - 9.30 p.m.
- Saturday 9.30 a.m. - 5.00 p.m.
- Vacation Period Monday to Friday 9.30 a.m. - 5.30 p.m.

The Students' Union is the students' representative body in the College. It helps to promote and defend the interest of students in the College. Every student becomes a member of the union on enrolment. The union is democratically based and it is dependent for its effectiveness on student participation.

It is administered by an executive which is elected annually by the student body and is headed by two sabbatical fulltime officers - a President and a Deputy President. The President is responsible for the overall co-ordination of union policy in addition to the day to day running of the Union. The Deputy President has specific responsibility for welfare, sports clubs and course related matters. Each class elects its own representative to act as spokesperson to their Department and Student Union Executive. The ultimate decision making body of the Union is the general meeting which is open to all members of the student body. It holds a number of general meetings during the year.

Functions of the the Students Union
1. To represent and defend the views of its members.

The Union does this at College level by representing the students on the College Council, Library, Cafeteria Committee and other bodies.
General Information and Regulations

It represents its members views at national level through the Union of Students in Ireland.

2. To provide recreational and social facilities for its members. These include lunchtime concerts, parties, dances and talks by guest speakers.

The Union also maintains a common room where students may meet for discussions or just to relax.

Sports clubs and course related societies are administered and financially supported by the Student's Union.

There are two Committees, a Sports Council and a Cultural Council which between them co-ordinate many activities in the College including trips, special lectures, competitions and other events.

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

The general financial and administrative affairs of the Dublin Institute of Technology Students Unions are managed and co-ordinated by a limited company, Dublin Institute of Technology Students Unions Ltd. Students Unions staff are employees of the Company.

DIT student services are co-ordinated by a Students Services Council which is a sub-committee of CDVEC and is representative of it, College Principals, Student Unions and other designated or nominated members.

The Student Services Council has two main sub-committees:

(i) A DIT Sports Council;
(ii) A DIT Social and Cultural Council.

Each of these sub-committees has Governing Body, College Management and Student Union nominees and have responsibility for the general development and co-ordination of relevant activities in each College and between Colleges. They are responsible for the disbursement of funds to designated clubs and societies as well as for the preparation of annual budgets and accounts.

The general financial and administrative affairs of the DIT students unions are managed and co-ordinated by a limited company specially established for that purpose and members of staff are employees of that company.

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GENERAL REGULATIONS
of the
DUBLIN INSTITUTE OF TECHNOLOGY

Students are admitted subject to the regulations of the Institute and its Colleges as amended from time to time

REGISTRATION

1. The application and enrolment dates for courses offered in the Institute shall be as published annually by the Institute.

2. Fees must be paid in full on enrolment and before admission to class by cash, bankers draft or money order or guarantee from granting body.

3. Intending students should note the Entry Requirements for admission to the various courses. Before acceptance of an application for admission to classes or courses, the applicant may be required to attend for interview and the College must be satisfied as to his/her ability to benefit from the proposed classes or course. Approval in this respect must be endorsed on the enrolment form by the designated College authority. A College may require an applicant to pass an entrance test and/or a suitability test before admitting him/her to any class or course.

4. Only in exceptional circumstances and subject to the additional payment of a late fee of £30 will applicants be admitted after the enrolment date as referred to in 1.

5. The sole proof of enrolment in any class or course in the College is the Official Receipt for the class or course fees paid. The Official Receipt must be shown to the Lecturer on first attendance at each class of the course. Lecturers are authorised to refuse admission to classes of students who do not show their Official Receipt.

6. Fees are not refundable except where a class or course does not form.

7. New students will be issued with an Identity Card. For this purpose and for the College records students must provide, at their own expense, three copies of a recent photograph (not returnable) of passport type and size. Students who were enrolled in the College in previous sessions must present the Identity Card previously issued to them for re-endorsement for the new session. Where Identity Cards have been lost or are no longer usable, the College should be informed as soon as possible and three copies of a recent photograph must again be provided as in the case of first enrolment. Students should note that an appropriate charge will be made for replacement of Identity Cards. The Identity Card is the property of the College and may be demanded by the College or its officers or agents at any time. Students are, therefore, required to carry their Identity Cards with them while in College or whenever they may be required to identify themselves as students of the College.

The general financial and administrative affairs of the DIT students unions are managed and co-ordinated by a limited company specially established for that purpose and members of staff are employees of that company.

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8. The onus is on the student to notify change of address or place of employment to the Secretary/Registrar immediately.

9. The College Principal, subject to the approval of the Vocational Education Committee and the Academic Council, may change any course and any or all of the examination regulations; the relevant students shall be given due notice of any such change.

10. The College Principal may change the day and time of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some reason a lecturer cannot attend, classes may be cancelled without notice.

11. No exchange of classes may be made after enrolment without the written consent of the Principal.

12. Overseas Students
Overseas students are required to hold the Leaving Certificate of the Department of Education or the General Certificate of Education Ordinary Level in six subjects including English and Mathematics or equivalent qualification. Applicants for professional or degree level courses are also required to have a minimum of two GCE Advanced Level subjects or equivalent.

It may be requested that applications be accompanied by a letter of recommendation from the Diplomatic Representative of the country of origin in Ireland, or, where there is no such representative, from the Ministry of Education in the country of origin. No application will be accepted from overseas applicants for admission to part-time day or evening courses unless resident in the country.

STUDENT DISCIPLINE
1. Students are expected to participate in the College activities in a manner conducive to establishing a sound educational atmosphere.

2. All students are required to observe the published regulations laid down by the College.

3. Any student engaging in, or causing disruption of, a legitimate College activity may be suspended from the College.

4. Students must at all times obey the lawful instructions of lecturers and other members of the College staff who are responsible for the maintenance of good order.

5. Misconduct in any of the Colleges comprising the Institute may lead to suspension by the College Principal of the student or students concerned.

6. Students are liable for the cost of repair or replacement of Institute or College property maliciously or negligently damaged by them.

7. Students are not allowed to smoke in College except in areas designated for smoking.

8. Students will be issued with an Identity Card on enrolment. The Identity Card is the property of the College and may be demanded by the College or its officers or agents at anytime. Students are, therefore, required to carry their Identity Cards with them while in College or whenever they may be required to identify themselves as students of the College.

9. The Vocational Education Committee reserves the right to expel from the College at any time any student whose conduct is in serious breach of the regulations.

10. Only College or Institute societies and clubs may advertise in the College. Students may only display posters and notices on the designated notice boards with the permission of the College Secretary/Registrar in the College concerned.

11. Student groups wishing to hold meetings in the College should make application in advance and receive the permission of the Secretary/Registrar before such meetings take place.

12. Alcoholic drink may not be brought into the building or grounds of the Institution without the prior permission of the College Principal.

13. Students are forbidden to park cars/bicycles/motor cycles except in such places as they are authorised to do so from time to time.

14. The College Secretary/Registrar must be consulted in advance if College Organisations or Student Unions propose to arrange parades, collections, demonstrations or any other activities of this kind, using the name of the Dublin Institute of Technology, or the name of any of the Colleges comprising the Institute. Approval is given on the understanding that relevant bye-laws and upon such conditions as are set down by the College are understood and will be observed. Notice to the appropriate public authorities where required, should be arranged well in advance. Individual students participating in the name of the College in any activity outside College remain subject to the general regulation that students' conduct shall not bring the College into disrepute.

15. An appeal by a student against a decision on disciplinary matters may be made by the student through the College concerned to the Disciplinary Appeals Board of the Institute; the Board shall comprise a membership as follows:

(i) Chairman of the Institute or a member of the Committee acting on the Government Body and nominated by the Chairman;
(ii) The Chief Executive Officer;
(iii) A College Principal of another DIT College;
(iv) A Student Representative.

No member of a disciplinary committee may be a member of the appeals board.
ATTENDANCE

1. A full attendance at classes in all subjects of the course is expected, a minimum attendance of 75% in all subjects of the course is required.

2. Students who fail to comply with this requirement without satisfactory explanation to the College Secretary/Registrar will be refused permission to sit College examinations, and endorsement of their entries for external examinations will similarly be refused.

3. The Vocational Education Committee may expel any student without refund of fees, for irregular or unpunctual attendance. Three successive absences or unsatisfactory attendance from any class may lead to suspension from the entire course, unless a satisfactory written explanation is submitted to the Principal.

4. Students must provide themselves with such books, instruments and equipment (including special clothing) as their classes may, in the opinion of the College, require. Safety precautions, and such other regulations as the work of the College may require, must be observed as prescribed.

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

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

Approved JULY 1981
ARCHITECTURE
SURVEYING
AND
BUILDING
Students undertake a number of community-based projects each year as part of their programmes. This illustration is taken from a report on a Donegal Town study.

The School provides courses at technological and technician levels for occupations within the building industry, and brings together in the process of education those who will work together professionally in later careers.

The Architect is responsible for the design and supervision of building projects.

The Construction Economist, as quantity surveyor, is concerned with the cost implications of project designs and the financial management of building operations.

The Property Economist has a similar role in the wider range of urban development and planning, or in state management.

The Building Manager is concerned with production management of the building process.

The Geo-Surveyor is concerned with the land itself, its nature, its resources, and the measurement and definition of these.

Employment opportunities in all cases exist in a range from personal professional consultancy to employment in architectural and building organisations and in State or municipal departments.

Awards:
Graduates of this course are eligible for the following awards:
Diploma in Architecture (Dublin Institute of Technology)
Bachelor of Architectural Science (University of Dublin)
They are also eligible on graduation for Associate Membership of the Royal Institute of Architects of Ireland. Following two years of post-graduate experience they may take the Institute's examination in Professional competence and thus become Members of the RIAI. Success in the third year of the Diploma in Architecture Course gives exemption from the Intermediate Examinations of the RIAI.

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

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-matter 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

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.

D3

PROPERTY ECONOMICS DIPLOMA DEGREE

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

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

Course of Study:
First Year: Construction Technology & Environmental Science, Economics, Law, Quantitative Methods & Computing, Valuations and Professional Development.
Fourth Year: Planning, Urban Economics, Valuations.

Awards: Graduates of this course are eligible for the following awards:
Diploma in Property Economics (Dublin Institute of Technology)
Bachelor of Science (Surveying) (University of Dublin).

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

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

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

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

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

Dept. in Charge: Surveying & Building Technology.

CONSTRUCTION ECONOMICS — DIPLOMA/DEGREE

D4

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

Course of Study:
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: 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.

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

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

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

In the fourth year, each student prepares a major dissertation as part of the final examination.
Awards
Graduates of this course are eligible for the following awards:
- Diploma in Construction Economics (Dublin Institute of Technology)
- Bachelor of Science (Surveying) (University of Dublin)

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

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

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

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

Dept. in Charge: Surveying & Building Technology.

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.

Dept. in Charge: Surveying & Building Technology.

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

Course of Study:
- First Year: Mathematics; Science for Technology; Land Surveying I; Accountancy; Construction Technology I; Measurement I.
- Second Year: Builders' Accounts; Land Surveying II; Estimation and Price Build-up; Construction Technology II; Measurement II; Computer Usage.
- Third Year: Construction Law; Management; Economics; Construction Technology III; Measurement and Specification III; Variations.

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

Awards
Students who successfully complete the course are eligible for the following awards:
- Construction Technician Certificate (Dublin Institute of Technology)
- Construction Technician Diploma (Dublin Institute of Technology)

Holders of the Diploma are entitled to 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.
Technological and Technician Courses

D5A GEO-SURVEYING TECHNICIAN CERTIFICATE/ DIPLOMA

This whole-time 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.

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

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

Third Year:
- 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)

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.

D6 URBAN DESIGN (POST GRADUATE)

Commencement of course is subject to additional accommodation and finance being available to the College.

Dept. in Charge: Architecture and Town Planning.

D7 DIPLOMA COURSE IN BUILDING

As a development of its courses for the building sector the College hopes to offer, from the 1988/89 session, a new four-year course leading to a Diploma in Building awarded by Dublin Institute of Technology. This course will parallel the present Construction Economics Diploma course and will have similar entry requirements. It is envisaged that it will combine the major elements of Technology and Management Studies at professional level in the building field.

Dept. in Charge: Surveying and Building Technology.

D10 PLANNING TECHNICIAN CERTIFICATE COURSE

Commencement of course is subject to additional accommodation and finance being available to the College.

Dept. in Charge: Architecture and Town Planning.
Technological and Technician Courses

D12  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 whole-time 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.

Course of Study:

First Year:

Second Year:

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

Awards:

It is envisaged that students who successfully complete the course will be eligible for the following awards:
Certificate in Auctioneering and Estate Agency (after two years)
Diploma in Auctioneering and Estate Agency (after a further year).

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

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

Entrance, Requirements:

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.

D21  BUILDINGS MAINTENANCE TECHNICIAN
     CERTIFICATE COURSE

This new two-year whole-time course has been developed to prepare students for a Technician Certificate award in Building 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.

Course of Study:

First Year:

Second Year:

Awards:

It is expected that students who successfully complete the course will be eligible for the Award of a Buildings Maintenance Technician Certificate (Dublin Institute of Technology).
Technological and Technician Courses

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.

Presentation of a student project. Study of the Dublin Dockland Re-development, to the Minister for the Environment Mr. Padraig Flynn. Also included is Mr. M O'Donnell, Principal of the College and Councillor Patrick Carey, Chairman of the College Council.

TECHNOLOGICAL AND TECHNICIAN COURSES — PART-TIME

CONSTRUCTION TECHNICIAN DIPLOMA PART-TIME
This day release course is similar to the wholetime Diploma course and leads to the award of the Construction Technician's Diploma. Classes are scheduled on one day and two evenings per week over a period of four years. Entry to this course is open to those holding:

(a) The secondary schools Leaving Certificate in at least five subjects including Mathematics OR the Matriculation Certificate of a recognised University OR the General Certificate of Education.

(b) Appropriate employment in the Construction Industry.

Dept. in Charge: Surveying and Building Technology.

DIPLOMA/DEGREE IN CONSTRUCTION ECONOMICS PART-TIME
This day release course is similar to the wholetime Diploma course and leads to the award of a Diploma/Degree in Construction Economics. Classes are scheduled on one day and two evenings per week over a period of six years. The academic entry qualifications to the First Year of the course are similar to D4. Candidates holding relevant technician qualifications at an appropriate level may be considered for exemptions from one or more years of the course. Candidates must be in appropriate employment in the Construction Industry.

Dept. in Charge: Surveying and Building Technology.

SHORT COURSES
Short Courses in Building and Project Management may be held during the session. Enquiries relating to these will be welcome by the Department of Surveying and Building.

Dept. in Charge: Surveying and Building Technology.
ARCHITECTURE, SURVEYING & BUILDING — EVENING COURSES

E4 PROFESSIONAL COURSE IN SURVEYING AND CONSTRUCTION STUDIES
This is a three-year, two-stage evening course to enable students who hold Intermediate Level qualifications in the construction and surveying fields to progress to full professional qualifications of appropriate institutions. Students may attend classes up to five evenings per week depending on their choice of subjects.

Entry N.C.E.A. Diploma in Construction Studies, C.T.D., L.I.O.B.,
Dept. in Charge: Surveying and Building Technology.

E9 SHORT COURSES
Short courses in various aspects of Surveying and Building may be held during the session in response to demands. Enquiries should be directed to the Department of Surveying and Building.

Dept. in Charge: Surveying and Building Technology.
The School of Engineering encompasses two departments within the College – the Engineering Technology Department, and the Science, Mathematics, and General Studies Department.

The academic programmes in Engineering within the College range from Craft to full professional level. It is the College policy to provide an integrated system, horizontally in the range of technologies and vertically in their levels. In this way it is hoped that all students will find courses suitable to their needs and abilities. Opportunities for transfer or promotion to related disciplines are provided.

The Engineering School maintains close links with industry through direct contact with employers, through vacation training, project work and research activities. The links with professional institutions are strong and there is a conscious awareness of modern needs in technological education and training.

Over the past thirty years the College's wholetime Engineering professional or degree level courses have continued to develop and today four separate options are offered in Mechanical, Production, Structural, and Building Services Engineering. They share a common First year and have other common elements in subsequent years. Electrical and Electronic Engineering courses are offered in the College of Technology, Kevin Street.

The College has responded to changing requirements for technician courses to meet the emerging demands. The opportunities for technician graduates are good and such courses also offer attractive prospects for young people in search of interesting careers.

The School continues to play an important role in the College's evening activities. Programmes are kept under review and every attempt is made to assist technical personnel to keep abreast of the latest advances and new technological developments.

As the accommodation of the College is limited it is regretted that in many cases competition to gain entry into courses is very keen and only some of the applicants can be admitted.
TECHNOLOGICAL AND TECHNICIAN COURSES — WHOLETIME

D40

DIT Course Code 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
D42B, D42M, D42P or D42S.

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
D42B, D42M, D42P or D42S 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.

D42M

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

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

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

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

Third Year:
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)

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.
Production Engineering – Diploma/Degree

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

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

First Year:

Second Year:

Third Year:

Fourth Year:

A major project is also undertaken.

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

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

Career Opportunities
The qualification is appropriate to those wishing to specialise in either 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.

Structural Engineering – Diploma/Degree

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

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

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

Second Year:
Technological and Technician Courses


A major project is also undertaken.

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

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

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

D425

BUILDING SERVICES ENGINEERING — DIPLOMA/DEGREE

C.A.O. Course Code: FT04

DIT Course Code: B121

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

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

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


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

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

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

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.
Technological and Technician Courses

D46C
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 qualification.
Third Year (Diploma Stage): Students are expected to reach Credit or Distinction level in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award. Students who hold a Pass certificate and at least one year of appropriate post-Certificate experience may also be considered. The Diploma stage is specialised and is focussed on Structural Design.

Course of Study:
First Year:
Second Year:
Structural Design and Detailing, Mathematics, Engineering Materials, Surveying, Construction Services and Supplies, Planning and Administration, Complementary Studies, Laboratory Work.
Third Year:
Theory of Structures, Structural Design, Municipal and Road Engineering, Mathematics and Data processing, 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
(b) They are required to submit reports on their project and laboratory work.

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

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

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

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

Dept. in Charge: Engineering Technology.

D46H
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.
Technological and Technician Courses

Course of Study:


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

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

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

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

Graduates have 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.

D46M
MECHANICAL ENGINEERING TECHNICIAN — CERTIFICATE AND DIPLOMA

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

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

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

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

Course of Study:

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

Third Year: Common subjects: Mathematics; Electrotechnology and Controls, Complementary Studies.


Examination and Other Requirements:
(a) Students take a College examination at the end of each session, which is moderated by the National Council for Educational Awards.
(b) They are required to submit a report on their industrial training each year and also reports on their Project and laboratory work.
Awards
Graduates of this course are eligible for the following awards:
(a) Technician Certificate/Diploma in Mechanical Engineering (Dublin Institute of Technology)
(b) National Certificate/Diploma in Engineering (Process or Manufacturing) (National Council for Educational Awards).

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

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

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

Dept. in Charge: Engineering Technology.
Technological and Technician Courses

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.

D45

AIRCRAFT TECHNICIANS' COURSE
This is a two year sandwich course to train aircraft apprentices and those already employed in the Aeronautical Engineering industry as Aircraft Technicians in preparation for I.C.A.O. Maintenance Engineers' Licences issued by the Department of Communications. Students attend the College from September to June and spend the remainder of the year in the Aircraft Industry.

Entrance Requirements:
(a) Department of Education Intermediate Certificate in suitable subjects or Day Group Certificate in suitable subjects; and
(b) Employment in an Aeronautical Engineering environment.

Course of Study:

Examination and Other Requirements:
Students are required to pass examinations as follows:
(a) At the end of the first year — the Department of Education Junior Trade Certificates and Elementary Technological Examinations in Mechanical Engineering and City and Guilds of London Institute Aeronautical Engineering Craft Studies Part I.

(b) At the end of the second year — the Department of Education Senior Trades and City and Guilds of London Institute Aeronautical Engineering Craft Studies Part II, and Aeronautical Engineering Craft Studies Part II, and Aeronautical Engineering Technicians' Certificate Part I.

Dept. in Charge: Aeronautical Engineering.

TECHNOLOGICAL AND TECHNICIAN COURSES — PART-TIME

BUILDING SERVICES ENGINEERING
This course prepares students, with an Environmental Engineering Technician Diploma or equivalent qualification, for the new Part II Examination of the Chartered Institute of Building Services Engineers (C.I.B.S.E.). It is a two-year course and all applicants are expected to have a good background in Building Services Engineering practice. Details of the syllabus and sample examination papers are available from the C.I.B.S.E. at Delta House, 222 Balham High Road, London SW12 9BS.

Dept. in Charge: Engineering Technology.

D41

GRADUATE COURSE IN ENGINEERING
A four-year part-time day and evening course in preparation for the examinations of the Professional Engineering bodies. This course of study is as set out for course E41 which is the parallel evening course.

Dept. in Charge: Engineering Technology.

D43C

CIVIL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE
This part-time day and evening course prepares students for a Technician Certificate/Diploma in Civil Engineering. Students are expected to be already suitably employed in a Civil Engineering or Construction firm before commencing the course. It parallels course D44C and follows the same core syllabus.

Entrance Requirements:
Leaving Certificate or equivalent with passes in Mathematics, a Science subject (preferably Physics), English, and two other subjects or a Senior Trade Certificate with suitable endorsement.

Course of Study:
Stage I — First and Second Year Subjects: Mathematics, Engineering Science, Mechanics, Drawing, Surveying, Construction Technology and Complementary Studies.

Course of Study: Stage I

Entrance Requirements:

Recognition by Professional Bodies

Examinations and Other Requirements

At the end of each year students take a College Examination which is moderated by the National Council for Educational Awards.

MECHANICAL ENGINEERING TECHNICIAN
CERTIFICATE AND DIPLOMA COURSE

This part-time day and evening course prepares students for a Technician Certificate/Diploma in Mechanical Engineering. Students are expected to be already suitably employed in Mechanical Engineering before commencing the course. It parallels course D46M and follows the same core syllabus.

Entrance Requirements:

Leaving Certificate or equivalent with passes in Mathematics, a Science subject (preferably Physics), English, and two other subjects or a Senior Trade Certificate with suitable endorsement.


Stage II — Third and Fourth Year — Certificate Stage: At this stage three options are offered: Mechanical, Welding and Fluid Power Engineering. Common Subjects: Mathematics, Thermal and Fluid Plant, Electro-technology and Industrial Instrumentation, Complementary Studies.

Recognition by Professional Bodies

At the end of each year students take a College examination which is moderated by the National Council for Educational Awards.

BUILDINGS SERVICES ENGINEERING TECHNICIANS
CERTIFICATE AND DIPLOMA COURSE

This part-time day and evening course prepares students for a Technician Certificate/Diploma in Environmental/Building Services Engineering. Students are expected to be already suitably employed in Building Services Engineering before commencing the course. It parallels Course D46H and follows a similar syllabus.

Entrance Requirements:

Leaving Certificate or equivalent with passes in Mathematics, a Science subject (preferably Physics) and two other subjects or a Senior Trade Certificate with suitable endorsement.

Course of Study: Stage I — First and Second Years
Technological and Technician Courses

Stage I - Third and Fourth Years - Certificate Stage
At this stage two options are available, Building Services and Refrigeration Technology.

Common Subjects: Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies.


Stage III - Fifth and Sixth Years - Diploma Stage

Dept. in Charge: Engineering Technology.

D47
MECHANICAL ENGINEERING TECHNICIAN COURSE
This part-time day and evening course is intended to prepare suitable students for the City & Guilds of London examinations for Mechanical Engineering Technicians (255). The course is for technicians and draughtsmen engaged in the following types of employment:


Entrance Requirements:
Elementary Stage Technological Certificate of the Department of Education examinations in Mechanical Engineering, Leaving Certificate or endorsement in Senior Craft Certificate.

First Year: Course of Study:

Second Year: Science and Mathematics, Drawing and Materials, Production Technology and General Studies.

Third Year: Production Technology, Mathematics and Statistics, Metrology and Management Studies.

Examinations and Other Requirements: At the end of the first year students take the Part I examination of the City & Guilds of London Institute No. 255, Part II at the end of the second year, and Part III at the end of the third year.

Dept. in Charge: Engineering Technology.

D59
SHORT COURSE PROGRAMME
A series of 2.5 day short courses on modern developments in Engineering Technology may be organised at different stages during the session. These may include:
(a) Low Cost Automation;
(b) Fluid Power;
(c) Maintenance Management Techniques;
(d) Modern Production Methods;
(e) New Developments in Welding Technology;
(f) Fuel Technology;
(g) Fire Safety;
(h) Structural Design Codes;
(i) New Materials;
(k) Water Pollution Control;
(l) Energy Conservation;
(m) Engineering Costing and Estimating.

Mr John Lang, President of the Institution of Engineers of Ireland with Samuel Yodaiken, final year Mechanical Engineering student at the College after winning the 1986 Unidare Prize competition open to all engineering undergraduate students in Irish Engineering schools.
E31 BUILDING SERVICES ENGINEERING
This course prepares students, with an Environmental Engineering Technician Diploma or equivalent qualification, for the Part II Examination of the Chartered Institute of Building Services Engineers (C.I.B.S.E.).

It is a two year course and all applicants are expected to have a good background in Building Services Engineering practice. Details of the syllabus and sample examination papers are available from the C.I.B.S.E. at Delta House, 222 Balham High Road, London SW12 9BS.

Dept. in Charge: Engineering Technology.

E41 GRADUATE COURSES IN ENGINEERING
A 4-year course to prepare students for the examinations of Professional Engineering bodies including:

(1) Institution of Engineers of Ireland.
(2) The Engineering Council (U.K.) and associated professional bodies such as:
   (a) The Institution of Mechanical Engineers;
   (b) The Institution of Production Engineers;
   (c) The Institution of Structural Engineers;

Courses are offered for both Part I and Part II stages provided there are sufficient applicants of a suitable educational standard.

Part I: Some or all of the following subjects may be offered: Mathematics, Mechanics, Thermodynamics, Electrotechnics, Properties of Materials, Presentation of Engineering Information, and Electronics.

Part II: Depending on demand, the following subjects may be offered: The Engineer in Society, Mechanics and Properties of Materials, Fluid Mechanics, Structural Analysis, Structural Design, Thermodynamics, Organisation of Large Constructions, Engineering Geology and possibly other subjects. Students are required to complete a laboratory programme as part of this stage.

Full details of the syllabus and examination regulations are available from the Institution of Engineers of Ireland, 22 Clyde Road, Dublin 4, or the Engineering Council.

Entrance Requirements: Before entry, applicants must meet the requirements of the appropriate Institution for Student Membership. They are urged to make early application to the Institution because it may take several months to process and it is not possible to sit the examination until this has been completed.

E42 MECHANICAL ENGINEERING TECHNOLOGICAL CERTIFICATE COURSE
This course is intended to prepare students for the Technological Certificate examinations of the Department of Education in Mechanical Engineering as follows:

At the end of the First year — Elementary Stage. Subjects: Mathematics, Mechanics, Heat, Drawing.


At the end of the Third year — Advanced Stage. Subjects: Mathematics, Mechanics, Heat Engines, Drawing.

Entrance Requirements: The entrance requirements are Department of Education Intermediate Certificate or Day Group Certificate with passes in Mathematics, English and a Science subject. Students with Leaving Certificate which includes a pass in Mathematics and a Science subject may enter the course at the second year stage.

Dept. in Charge: Engineering Technology.

E43C CIVIL ENGINEERING TECHNICIANS' CERTIFICATE COURSE
This is a four-year evening course to prepare students in suitable employment for a Civil Engineering Technicians' Certificate. It parallels Course D43C and Course D46C and follows a similar syllabus.

Entrance Requirements: The entrance requirement is Leaving Certificate in five subjects including Mathematics or equivalent qualification.
Technological and Technician Courses

Subjects

Stage I — First & Second Years

Stage II — Third & Fourth Years — Certificate Stage
Structural Design and Detailing, Engineering Materials, Surveying, Mathematics and Computation, Planning and Administration, Construction Services, Complementary Studies.

Dept. in Charge: Engineering Technology.

E43V

BUILDING SERVICES ENGINEERING TECHNICIAN CERTIFICATE COURSE
This is a four-year evening course to prepare students in suitable employment for an Environmental/Building Services Engineering Technician's Certificate. It parallels Course D46H and Course D43V, and follows a similar syllabus.

Entrance Requirements:
Leaving Certificate in five subjects including Mathematics or Senior Trade Certificate with endorsement or equivalent qualification.

Course of Study:
Stage I — First & Second Years

Stage II — Third & Fourth Years — Certificate Stage
At this stage two options are available, Building Services and Refrigeration Technology.

Common Subjects: Mathematics, Thermal and Fluid Plant, Electro-technology and Industrial Instrumentation, Complementary Studies.


Dept. in Charge: Engineering Technology.

E43M

MECHANICAL ENGINEERING TECHNICIANS' CERTIFICATE COURSE
This is a four-year evening course to prepare students in suitable employment for a Mechanical Engineering Certificate. It parallels Course D46M and D43M and follows a similar syllabus but more specialised options are available in both Fluid Power and Welding.

Entrance Requirements:
The entrance requirement is Leaving Certificate in five subjects including Mathematics and English, or the Senior Trade Certificate with endorsement, or equivalent qualification.

Subjects:

Stage I — First & Second Years

Stage II — Third & Fourth Years — Certificate Stage
At this stage three options are offered, Mechanical, Welding, and Fluid Power Engineering.

Common Subjects: Mathematics, Thermal and Fluid Plant, Electro-technology and Industrial Instrumentation, Complementary Studies.


Dept. in Charge: Engineering Technology.

E47

MECHANICAL ENGINEERING TECHNICIANS COURSE
This is a three-year evening course to prepare students for the Part I, Part II and Part III examinations of the City & Guilds of London Institute for Mechanical Engineering Technicians Course (255).

Students should have a suitable craft background and hold the Senior Craft Certificate with endorsement, Elementary Technological Certificate in Mechanical Engineering, GCE, Leaving Certificate or equivalent.

The course of study is as set out for Course D47 which is the parallel course operating by day.

Dept. in Charge: Engineering Technology.
E50  COMPUTER PROGRAMMING COURSE
This is a two-year course in which students are prepared for the City & Guilds Examination No. 417 (Applications Programming Certificate). Languages used: Basic and Cobol.

Entrance Requirements:
(a) Leaving certificate or equivalent.
(b) Commercial or industrial experience related to Computing.

The number of places is limited and applicants must present themselves at the College for interview between 7.00 p.m. and 8.30 p.m. during the week commencing 14th September.

Only those with written evidence of (a) and (b) will be considered for the course. Preference will be given to operators of medium to large installations.

Dept. in Charge: Science, Mathematics & General Studies.

E54  STRUCTURAL DESIGN COURSE
This is a one-year advanced course intended for those who wish to prepare for the Part III Design examination of the Institution of Structural Engineers. Depending on demand, there may be options in Steel or Concrete Design.

Entrance Requirements:
A degree in Civil or Structural Engineering or a pass in the IEI/Engineering Council examinations or equivalent, together with at least one year of suitable post-graduate experience in a structural design office.

Dept. in Charge: Engineering Technology.

E57  INDUSTRIAL MANAGEMENT CERTIFICATE AND DIPLOMA COURSES
The two-year evening Certificate course is intended for engineering technicians and trainee production and industrial managers who wish to take the certificate examinations of the Institution of Industrial Managers. The Diploma stage is intended primarily for those responsible for discharging management functions.

Entrance Requirements:
Students entering the Certificate course should have reached the Leaving Certificate standard of general education and be suitably employed as managers or supervisors in industry. Applicants holding an appropriate degree or professional qualification and substantial management experience may be admitted directly into the Third Year or Diploma Stage.
Technological and Technician Courses

Entrance:
The course is available to those who are employed in the heating industry.

Requirements:
The Leaving Certificate or equivalent qualifications. Exemptions from stages of the course may be available to suitably qualified candidates.

Dept. in Charge: Automobile Engineering.

E44
MOTOR INDUSTRY MANAGEMENT STUDIES
This three year course prepares students for membership examinations of the Institute of the Motor Industry.


Entrance:
Leaving Certificate or equivalent qualification. Exemption to stages of the course may be available to suitably qualified candidates.

Dept. in Charge: Automobile Engineering.

E49
AUTOMOBILE ENGINEERING COURSE
Department of Education Elementary, Intermediate and Advanced Technological Certificates in Motor Car Engineering.

Duration of Course:
5 years of 30 weeks each year, 4 evenings (12 hours) each week.

Subjects:
Motor Car Engineering, Engineering Science and Mathematics, Automobile Electricity, Engineering Laboratory, General Studies including English, Drawing and Sketching, Garage Organisation & Management.

Entrance:
Day Vocational Group Certificate or Intermediate Certificate with Honour in certain specified subjects.

Dept. in Charge: Automobile Engineering.

E46
FLIGHT OPERATIONS OFFICER (DISPATCHER COURSE)
This course provides instruction for Flight Operations Officers in all operational aspects related to the preparation for commercial flights and the monitoring of all flights from a safety and efficiency viewpoint from the ground. It includes flight planning, aircraft loading, flight watch and operational considerations such as weight and runway limitations for the aircraft performance, weather, and ATC procedures.

The Course follows the guidelines of I.C.A.O. Standardised Course 201.
Technological and Technician Courses

**Technological and Technician Courses**

Duration: One year, two evenings a week.

Entrance Requirements: A general knowledge of aviation appropriate to personnel employed in airlines or associated operations.

Dept. in Charge: Aeronautical Engineering.

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**E53 JET ENGINE OVERHAUL PROCEDURES**

This course provides instruction in Jet Engine design and overhaul procedures.

Entrance Requirements: Employment in the Industry

Duration of Course: 1 year, 1 evening per week

Dept. in Charge: Aeronautical Engineering

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**E51 PRODUCTION PLANNING COURSE (I.A.T.A.)**

This course provides instruction for personnel employed in the Planning Department of the Aeronautical Industry. The course covers Aircraft Organisation and Practice, and Aircraft Operational and Maintenance Planning.

Entrance Requirements: Personnel employed in Planning Department in the Industry, or holders of the City & Guilds of London Institute Certificate Course 258, Part II.

Duration of Course: 1 year, 2 evenings per week.

Dept. in Charge: Aeronautical Engineering

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**MAINTENANCE ENGINEERS' LICENCES OF THE DEPARTMENT OF TOURISM & TRANSPORT**

E52A. 'A' LICENCE — B.A.C. 1-11
E52B. 'A' LICENCE — B. 707 B. 720
E52C. 'A' LICENCE — B. 737
E52D. 'A' LICENCE — B. 747
E52E. 'A' LICENCE — B. 727 CONVERSION
E52F. 'C' LICENCE — P & W JT3 SERIES
E52G. 'C' LICENCE — P & W JT8D
E52H. 'C' LICENCE — P & W JT9D
E52J. 'C' LICENCE — ROYCE SPEY
E52M. 'X' LICENCE — INSTRUMENTS
E52N. 'X' LICENCE — ELECTRICAL
E52P. 'X' LICENCE — RADIO
E52Q. 'X' LICENCE — RADIO (RADAR ENDOREMENT)
E52K. SHORTS 360 AIRCRAFT AND PT6 ENGINE
E52R. 'X' LICENCES — AVIONICS

The above courses provide instruction for Aircraft Maintenance Engineers, wishing to take the appropriate licence examinations of the Department of Tourism & Transport. The courses are of one year's duration requiring attendance on two evenings per week.

Entrance Requirements: Basic Aeronautical Engineering Certificate in appropriate category.

Dept. in Charge: Aeronautical Engineering

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**E55 BASIC AERONAUTICAL ENGINEERING CERTIFICATE OF THE DEPARTMENT OF TOURISM & TRANSPORT.**

E55A. AIRFRAMES UNPRESSURISED (B.A.E.C. 1)
E55B. AIRFRAMES PRESSURISED (B.A.E.C. 2)
E55C. PISTON ENGINES (B.A.E.C. 3)
E55D. TURBO-PROP & TURBO-JET ENGINES (B.A.E.C. 4)
E55E. HELICOPTERS (LESS ENGINES) (B.A.E.C. 5)
E55F. ELECTRICAL (B.A.E.C. 6)
E55G. RADIO (B.A.E.C. 7)
E55H. INSTRUMENTS (B.A.E.C. 8)

The above courses are of one year's duration requiring attendance for two evenings (6 hours) weekly per session. The courses are designed to prepare students for the Basic Aeronautical Engineering Certificate examinations of the Department of Tourism & Transport.

Entrance Requirements: Not less than two years employment in the Aeronautical Engineering Industry.

Dept. in Charge: Aeronautical Engineering

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**E56A. PRIVATE AIRCRAFT PILOTS LICENCE**

**E56B. PRIVATE PILOTS LICENCE INSTRUMENT RATING**

These courses provide instruction in Meteorology, Navigation, Air Legislation, Theory of Flight and Aircraft Limitations for personnel wishing to take the Department of Tourism & Transport Private Pilots Licence and the Private Pilots Licence Instrument Rating.

Duration of Courses: 1 year, one evening per week for each course.

Dept. in Charge: Aeronautical Engineering.
The Principal Mr. O'Donnell congratulating Derek Williams an ESB apprentice on winning the Arnold W. Gilson Memorial Medal for his success in the Engineering Production Part 3 Technician Examinations of the City & Guilds of London Institute. Mr. Williams also received a Silver Medal from the City & Guilds for taking first place in this examination.

Mrs. McInerney presenting the Thomas McInerney Perpetual Trophy Award, donated by Aer Lingus, to Eamon P. Kieran, the first winner. The award was initiated to commemorate the memory of the late Tom McInerney, former Head of the Aeronautical Engineering Department. Also shown are Mr. Michael Forde, present Head of the Department and John Duggan, Head of Technical Training, Aer Lingus.
SCHOOL OF TRADES

The College offers day release, block release and evening courses for apprentices, craftsmen and technicians actually engaged in appropriate industries. The students are released from their employment, where appropriate, on full pay to attend classes.

The craft courses are designed to cover the requirements of the Junior and Senior Trade Certificate examinations of the Department of Education and corresponding examinations of the City & Guilds of London Institute. The subjects covered on these courses include the relevant trade theory and practice, together with Drawing, Engineering Science, Mathematics, Social Science, English and General Studies.

Although most of the apprentices are released directly from industry, an increasing number of first year apprentices are receiving formal “off-the-job” training in industrial or AnCO training centres in the practical skills of their trade and are released to attend classes in the other course subjects. In subsequent years their training and education requirements are provided by the College.

Post apprenticeship courses are provided where a demand for these courses exists, and opportunities are available for students who are successful in the Senior Trade Certificate Examination to proceed to higher level courses. These include a number of craft-based technician courses.

Evening courses in trade subjects, mainly at the more advanced levels, are organised on the basis of attendance on two evenings weekly, and provision is made for students to take the appropriate trade examinations.

All trade and trade related courses offered by the College are grouped within a number of Schools.

The School of Engineering Trades provides courses for the Automobile, Aeronautical and General Engineering Trades.

The School of Construction Trades provides courses for the trades of Carpentry & Joinery, Brickwork and Plasterwork, Constructional Steel, Welding, Foundry Work, Plumbing, Wood Machining and Furniture manufacture and Sheet Metal work.

The School of Printing provides courses of education and training for all sections of the printing industry, including Lithographers, Compositors and Book-binders. It also provides special classes in print techniques for other College and DIT courses.
DAY COURSES

Enquirers seeking further information about trade and trade-related courses should contact Departments as follows:

Department of Building Trades 'A' - Courses D101 - D112 inclusive.
Department of Building Trades 'B' - Courses D120 - D122B inclusive.
Department of Metal Fabrication & Plumbing - Courses D143A - D152 inclusive.
Department of Automobile Engineering - Courses D124A - D136 inclusive.
Department of Engineering Trades - Courses D140 - D142 inclusive.
Department of Aeronautical Engineering - Courses D154A - D155 inclusive.

D101. BRICKWORK - DAY RELEASE
This course requires attendance on one day and one evening per week for the First and Second Year and one day only per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute Craft Certificate Examinations.

Entrance Requirements:
Apprenticeship to the trade.

D101A. BRICKWORK - OFF-THE-JOB COURSE
This course meets the requirements of apprentices who are attending full-time for one year at an AnCO Training Centre. Students attend the College on one day and one evening per week during this one year course. The course is designed to allow students to take the Junior Trade Certificate Examination of the Department of Education.

Entrance Requirements:
Enrolment as an apprentice in an approved Training Centre.

D102. PLASTERWORK - DAY RELEASE
This course requires attendance on one day and one evening per week for the First and Second Year and one day only per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute Craft Certificate Examination.

Entrance Requirements:
Apprenticeship to the trade.

D102A. PLASTERWORK - OFF-THE-JOB COURSE
This course meets the requirements of apprentices who are attending full-time for one year at an AnCO Training Centre. Students attend the College on one day and one evening per week during this one year course. The course is designed to allow students to take the Junior Trade Certificate examination of the Department of Education.

Entrance Requirements:
Enrolment as an apprentice in an approved Training Centre.

D105. PAINTING AND DECORATING - DAY RELEASE
This course requires attendance on one day and one evening per week for the First and Second Year and one day per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute Craft Certificate Examinations.

Entrance Requirements:
Apprenticeship to the trade.

D105A. PAINTING AND DECORATING - OFF-THE-JOB COURSE
This course meets the requirements of apprentices who are attending full-time for one year at an AnCO Training Centre. Students attend the College on one day and one evening per week during this one year course. The course is designed to allow students to take the Junior Trade Certificate Examination of the Department of Education.

Entrance Requirements:
Enrolment as an apprentice in an approved Training Centre.

D107. VEHICLE BUILDING - DAY RELEASE
This course requires attendance on one day and one evening per week for the First and Second Year and one day per week thereafter. The course is designed to allow students to take the City & Guilds of London Institute Examinations in Vehicle Body Craft Studies Part I and Part II.

Entrance Requirements:
Apprenticeship to the trade.

D111. CABINETMAKING/CHAIRMAKING - DAY RELEASE
This course requires attendance on one day and one evening per week for the First and Second Year and one day per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education.

Entrance Requirements:
Apprenticeship to the trade.
Craft Courses

D111A. CABINETMAKING/CHAIRMAKING – OFF-THE-JOB COURSE
This course meets the requirements of apprentices who are attending full-time for one year at an AnCO Training Centre. Students attend the College on one day and one evening per week during this one year course. The course is designed to prepare students to take the Junior Trade Certificate Examination of the Department of Education.

Entrance Requirements:
Enrolment as an apprentice in an approved Training Centre.

D112. UPHOLSTERY
This course requires attendance on one day and one evening per week for the First and Second Years and one day per week thereafter.

Entrance Requirements:
Apprenticeship to the trade.

D120 CRAFT TECHNICIAN COURSE IN BUILDING
This course may be offered on a day-release and evening attendance basis in the 1986/87 session. See course E120 for further details.

D121A CARPENTRY AND JOINERY – DAY RELEASE
This course requires attendance on one day per week for four years. The course is designed to prepare students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education with endorsements and the City & Guilds of London Institute. The Junior examination is taken after two years and the Senior examination after four years. Students who complete the course satisfactorily can proceed to more advanced courses leading to City & Guilds of London Institute Examinations.

Entrance Requirements:
Apprenticeship to the trade.

D121B CARPENTRY AND JOINERY – OFF THE JOB
This course is designed to meet the requirements of apprentices who are attending a Training Centre on a fulltime basis during their first year. They are released to attend the College on one day per week during this period and the course prepares them to take the Junior Trade Certificate Examination of the Department of Education.

Entrance Requirements:
Enrolment as a Carpentry and Joinery apprentice in an approved Training Centre.

D122A WOODCUTTING MACHINIST – DAY RELEASE
This course requires attendance on one day per week for four years. The course is designed to prepare students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education with endorsements and the City & Guilds of London Institute. The Junior examination is taken after two years and the Senior examination after four years. Students who complete the course satisfactorily can proceed to more advanced courses leading to City & Guilds of London Institute Examinations.

Entrance Requirements:
Apprenticeship to the trade.

D122B WOODCUTTING MACHINIST - OFF THE JOB
This course is designed to meet the requirements of apprentices who are attending a Training Centre on a fulltime basis during their first year. They are released to attend the College on one day per week during this period and the course prepares them to take the Junior Trade Certificate Examination of the Department of Education.

Entrance Requirements:
Enrolment as a Woodcutting Machinist apprentice in an approved Training Centre.

D143A WELDING – DAY RELEASE
This course requires attendance on one day and one evening per week for the First, Second and Third Year and one day per week thereafter. The course is designed to prepare students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education with endorsements. Generally, students take the Junior Stage examination after two years and the Senior Stage examination after four years. Students who complete the course satisfactorily may proceed to the craft-based Technician Course in Metal Fabrication and Welding.

Entrance Requirements:
Employment as a welding apprentice.

D143D SHORT COURSES IN WELDING PROCESSES—UPDATING OF SKILLS
Short courses in various aspects of Welding may be held during the session in response to demands from industry. Enquiries should be directed to the Department of Metal Fabrication.

Entrance Requirements:
Employment in the Engineering and Allied Trades.
Craft Courses

D145. FOUNDARY MOULDER/COREMAKER – BLOCK RELEASE

This course is conducted at intervals to meet the needs of the Foundry Industry. Students are nominated by their employers or are sponsored by AnCO – The Industrial Training Authority. The course is based on the syllabus for foundry craft studies of the City & Guilds of London Institute and normally entails attending four Block Release courses, each of 11 weeks duration spread over a 4 year cycle.

The course involves both practical and theoretical training in Safe Working Practice, Materials, Methods, Equipment and Related Studies.

In cases where students are employed in foundries outside the Dublin area, a one year off-the-job course may be provided entailing full-time attendance for one year and Block Release attendance for a further two years.

Entrance Requirements: Intermediate or Day Vocational Group Certificate and be employed as an apprentice in the Foundry Industry.

D149A. SHEET METALWORK – DAY RELEASE

This course requires attendance on one day and one evening per week for the First, Second and Third Year and one day per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education with endorsements and the city & Guilds of London Institute. Generally, students take the Junior Stage examination after two years and the Senior Stage after four years. Students who complete the course satisfactorily can proceed to the craft-based Technician Certificate Course in Metal Fabrication and Welding.

Entrance Requirements: Employment as a Sheet Metalwork apprentice.

D149B. SHEET METALWORK – OFF-THE-JOB

This course meets the requirements of first year apprentices undergoing off-the-job training in a training centre. The apprentices attend the College on 1½ days plus one evening per week for classes in Trade Technology, Mathematics, Science, Drawing and General Studies. On completion of the course, students are expected to sit the Junior Trade Certificate Examination (Written and Practical) of the Department of Education with Endorsements.

Entrance Requirements: Employment in the Sheet Metal Industry as an apprentice.

D150A. METAL FABRICATION – DAY RELEASE

This course requires attendance on one day and one evening per week for the First, Second and Third Year and one day per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education with endorsements and the city & Guilds of London Institute. Generally, students take the Junior Stage examination after two years and the Senior Stage examination after four years. Students completing the course in a satisfactory manner can proceed to the craft-based Technician Certificate Course in Metal Fabrication and Welding.

Entrance Requirements: Employment as a Metal Fabrication apprentice.

D150B. METAL FABRICATION – OFF-THE-JOB

This course meets the requirements of first year apprentices undergoing off-the-job training in a training centre. The apprentices attend the College on 1½ days plus one evening per week for classes in Trade Technology, Mathematics, Science, Drawing and General
Craft Courses

Studies. On completion of the course, students are expected to sit the Junior Trade Certificate Examination (Written and Practical) of the Department of Education with endorsements.

D151A. PLUMBING – DAY RELEASE

This course requires attendance on one day per week for four years. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education with endorsements. The Junior examination is taken after two years and the Senior examination after four years. Students who complete the course satisfactorily can proceed to more advanced courses leading to the craft-based Technician Certificate Course in Plumbing.

Entrance Requirements: Employment in the Metal Fabrication Industry as an apprentice.

D151B. PLUMBING – OFF-THE-JOB

This course meets the requirement of first year apprentices undergoing off-the-job training in a Training Centre. The apprentices attend the College on one day per week for classes in Trade Technology, Mathematics, Science, Drawing and General Studies. On completion of the course, students are expected to sit the Junior Trade Certificate Examination (Written and Practical) of the Department of Education with endorsements.

Entrance Requirements: Employment in the Plumbing & Heating Industry as an apprentice.

D152. CRAFT TECHNICIAN CERTIFICATE COURSE IN PLUMBING

This course may be offered on a day release and evening attendance basis in the 1987/88 session. See course E152 for further details.

D124A. HEAVY VEHICLE MECHANICS – OFF-THE-JOB

Objective: Department of Education Junior Trade Certificate including endorsement subjects, and the City & Guilds of London Institute Craft Certificate 381 Part I.

Duration of Course: One year of 36 weeks.

Attendance: One week (35 hours) in every three weeks for first year.


Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

D124B. HEAVY VEHICLE MECHANICS – BLOCK RELEASE

Objective: Department of Education Junior and Senior Trade Certificates plus endorsement subjects.

Duration of Course: Block release for 11 weeks each year (35 hours per week) over four years.


Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

D124C. HEAVY VEHICLE MECHANICS – DAY RELEASE

Objective: Department of Education Junior and Senior Trade Certificate with endorsement subjects and the City & Guilds of London Craft Certificate.

Duration of Course: Four years of 38 weeks each year.

Attendance: One day (7 hours) and two evenings (6 hours) each week.


Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

D125. MOTOR CYCLE MECHANICS

Objective: The City & Guilds of London Institute Craft Certificate 389.

Duration of Course: Two years of 38 weeks each year.

Attendance: One day (7 hours) and two evenings (6 hours) each week.


Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.
Craft Courses

D127A. LIGHT VEHICLE MECHANICS — OFF-THE-JOB
Objective: Department of Education Junior Trade Certificate with endorsement subjects.
Duration of Course: One year over 36 weeks.
Attendance: One week (35 hours) every 3 weeks for first year. One day (7 hours) and two evenings (6 hours) each successive year.
Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

D127B. LIGHT VEHICLE MECHANICS — BLOCK RELEASE
Objective: Department of Education Junior and Senior Trade Certificates plus endorsement subjects.
Duration of Course: Block Release for 11 weeks during each year of apprenticeship with attendance at College for 35 hours each week.
Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

D127C. LIGHT VEHICLE MECHANICS — DAY RELEASE
Objective: Department of Education Junior and Senior Trade Certificates plus endorsement subjects and the City and Guilds of London Craft Certificate.
Duration of Course: 4 years of 38 weeks each year.
Attendance: 1 day (7 hours) and 2 evenings (6 hours) each week.
Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

D127D. LIGHT VEHICLE MECHANICS — OFF-THE-JOB (ONE AND A HALF DAY RELEASE)
Objective: Department of Education Junior Trade Certificate with endorsement subjects.
Duration of Course: One year over 38 weeks.
Attendance: One and a Half Days (10 hours) and One Evening (3 hours) each week.
Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

D127E. LIGHT VEHICLE MECHANICS — TWO DAY RELEASE
Objective: Department of Education Senior Trade Certificate with endorsement subjects.
Duration of Course: Two years of 38 weeks.
Attendance: Two days (14 hours) each week.
Entrance Qualifications: Department of Education Junior Trade Certificate.

D128A. CONSTRUCTION PLANT FITTERS COURSE — OFF-THE-JOB
Objective: The City & Guilds of London Institute 620, Part I.
Duration of Course: One year over 36 weeks.
Attendance: One week (35 hours) every 3 weeks.
Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

D128B. CONSTRUCTION PLANT FITTERS COURSE — BLOCK RELEASE
Objective: The City and Guilds of London Institute 620, Parts I and II.
Duration of Course: Block Release Course of 11 weeks during each year of apprenticeship with attendance at College for 35 hours each week.
Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.
### Craft Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Duration</th>
<th>Objective</th>
<th>Subjects</th>
<th>Entrance Qualifications</th>
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<td>D136.</td>
<td>AUTOMOBILE ENGINEERING REFRESHER COURSE</td>
<td>Short courses of 20 hours duration</td>
<td>Continuing Education Programme to prepare for the City &amp; Guilds of London Institute 381, Part III, Modular.</td>
<td>Short courses of 20 hours duration on modern developments and techniques in the industry.</td>
<td>Department of Education Senior Trade Certificate.</td>
</tr>
</tbody>
</table>
Craft Courses

D140A. FITTING AND TURNING – OFF-THE-JOB
These courses are organised for fitting and turning apprentices attending "off-the-job" courses in Training Centres.

Objective: Department of Education Junior Trade Certificate with endorsements.

Duration of Course: One year of day release (1½ days and 1 evening each week, or one week in three over the session).


Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate or equivalent.

D141. FITTING AND TURNING – BLOCK RELEASE

Objective: Department of Education Junior and Senior Trade Certificates with endorsements.

Duration of Course: Four years of block release (11 weeks each year).


Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate or equivalent.

D142. TOOLMAKING
This course caters for toolmaking apprentices.

Objective: Department of Education Junior and Senior Trade Certificates with endorsements.

Duration of Course: First Year release from Training Centres for Junior Stage Examination followed by a further two years of day release from industry (1 day and 1 evening each week) for Senior Stage Examinations.


Entrance Qualifications: Day Vocational Group or Intermediate Certificate.

CITY & GUILDS AERONAUTICAL ENGINEERING CRAFT STUDIES PART III

D154A. (Mechanical)
This one-year course is designed to prepare students for Part III of the City & Guilds of London Institute examinations in Aeronautical Engineering Craft Studies (Course 208). Classes are held on one day and three evenings per week from October to May.

Entrance Requirements: Part II, City & Guilds Aero Engineering Craft Studies.

D155. GENERAL AIRCRAFT MECHANICS COURSE
This is a block or equivalent day release course to prepare Aircraft apprentices for the Department of Tourism & Transport Aeronautical Engineering Certificates, Parts 2, 3 and 4 and City & Guilds Aeronautical Craft Studies.

Duration of Course: Block release or equivalent day release for 3 years.
CRAFT & RELATED COURSES — EVENING

Enquirers seeking further information about trade and trade-related courses should contact Departments as follows:

<table>
<thead>
<tr>
<th>Department</th>
<th>Courses</th>
</tr>
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<tbody>
<tr>
<td>Department of Construction Trades 'A'</td>
<td>E101, E102, E104, E105, E106, E107, E111.</td>
</tr>
<tr>
<td>Department of Construction Trades 'B'</td>
<td>E1, E120, E121A&amp;B, E122A&amp;B</td>
</tr>
<tr>
<td>Department of Metal Fabrication &amp; Plumbing</td>
<td>E143A, E143B, E143C, E143D, E145A, E145C, E146, E146A&amp;B, E150, E151, E154</td>
</tr>
<tr>
<td>Department of Engineering Trades</td>
<td>E141A, E141B, E141C, E142, E144A, E144B, E144C.</td>
</tr>
<tr>
<td>Department of Aeronautical Engineering</td>
<td>E154, E154A.</td>
</tr>
</tbody>
</table>

E1 CONSTRUCTION TECHNICIAN COURSE

This is a three-year evening course in Building Construction and associated subjects in preparation for the Department of Education technological examinations.

Course Duration: 3 years — 3 evenings per week.

Objectives: Elementary level examination at the end of the first year, Intermediate level examination at the end of the second year, Advanced level examination at the end of the third year.

Entry Requirements: Employment in the Construction Industry and possession of a Group or Intermediate Certificate with a Grade C in Mathematics and Mechanical Drawing, or better.

Exemption from First Year of the course may be granted to an applicant who has achieved an acceptable level in Drawing and Building Subjects. Success in the Elementary Stage examination is a requirement for entry into the Second Year of the course.

Success in the Intermediate Stage examination is a requirement for entry into the Final Year of the course.

Subjects: 1st Year:
Building Construction, Mathematics and Geometry.

2nd Year:

3rd Year:
Building Construction, Builders Quantities, Plane and Solid Geometry.

CRAFT-BASED TECHNICIAN CERTIFICATE COURSE IN BUILDING

This is a three-year part-time course. The course has been designed to enable students on completion of their craft studies to further their career prospects in the Building Industry.

Entry Requirements: Prospective students must have completed at least three years as an apprentice in a recognised building trade and hold a Department of Education Senior Trade Certificate or equivalent trade qualifications.

Course of Study: Stage I:

Stage II:

Stage III:

Award: Craft Based Technician Certificate in Building (Dublin Institute of Technology).

BRICKWORK

This course is designed to assist students to prepare for the Senior Trade Certificate Examinations of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

Duration: One year, one evening per week.

Subjects: Trade Theory & Drawing.

Entry Requirements: Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.

PLASTERING

This course is designed to assist students to prepare for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

Duration: One year, one evening per week.
**Technological and Technician Courses**

**E106. SIGNWORK — ADVANCED**
This course is intended to give painting and decorating craftspersons an opportunity to improve their knowledge and skill in the preparation of signwork.

*Duration:* One year – 30 weeks at 3 hours per week.

*Course Content:* Design, shape and form in signwork, Production of signs, Glass Gilding and Etching, Ornamental Gilding, Silk Screening.

*Entry Requirements:* Senior Trade Certificate of the Department of Education in Painting and Decorating or an equivalent qualification.

**E107. VEHICLE BODY BUILDING**
This course is designed to assist students to prepare for appropriate Advanced Certificate Examinations of the City & Guilds of London Institute.

*Duration:* One year, one evening per week.

*Subjects:* Trade Theory & Drawing.

*Entry Requirements:* Prospective students must have completed 3 years of apprenticeship and have passed the City & Guilds of London Institute Certificate Examination Part I Vehicle Body Building & Repair.

**E111. CABINETMAKING/CHAIRMAKING**
This course is designed to assist students to prepare for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

*Duration:* One year, one evening per week.

*Subjects:* Trade Theory & Drawing.

*Entry Requirements:* Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.

**E121A. CARPENTRY AND JOINERY — ADVANCED**
This course is designed to assist senior apprentices and craftsmen in preparing for the Senior Trade Certificate Examination of the department of Education and the Advanced Certificate of the City & Guilds of London Institute.
### Technological and Technician Courses

#### Duration:
One year, two evenings per week.

#### Subjects:
Trade Theory, Trade Practice & Drawing.

#### Entry Requirements:
Prospective students must have passed the Junior Trade Certificate Examination in Carpentry and Joinery.

E121B. CARPENTRY AND JOINERY

This course is designed to give those employed in the Wood Cutting Machines sector of the Construction Industry an appreciation of the practical elements of Carpentry and Joinery.

E122A. WOODCUTTING MACHINISTS

This course is designed to give students an appreciation of the practical use of woodcutting machines. Prospective students must be employed in a timber related trade. The course duration is one evening per week over one year.

E122B. WOOD CUTTING MACHINISTS

This course is designed to update the skills of Woodcutting Machinists in modern machining techniques including the use of a Computer based Numerically Controlled Router.

E143A. SHORT COURSE IN WELDING — METAL ARC and OXY-ACETYLENE

This course is designed to meet the needs of craftsmen employed in the engineering or allied industries. The course covers both gas and electric-arc welding. Each course is of ten weeks duration, meeting on two evenings each week from 7.00 p.m. to 10.00 p.m.

#### Entrance Requirements:
Employment as a craftsman in the engineering or allied trades.

E143B. SHORT COURSE IN WELDING — GAS SHIELDED ARC - MIG and TIG

This is a special evening course designed to enable senior apprentice and craftsmen employed in engineering and allied trades to become proficient in the Metal Inert-Gas and Tungsten Inert-Gas welding processes.

**Course Duration:** One year. (2 evenings per week)

#### Entrance Requirements:
Employment in one of the engineering or allied trades.

E143C. WELDING — ADVANCED

This course is designed to assist craftsmen to prepare for the requirements of the I.S. 200 Irish Welding Certificate test. The course is of 26 weeks duration, meeting on two evenings per week from 7.00 p.m. to 10.00 p.m.

#### Duration:
One year (2 evenings per week) This course may also be offered by day.

#### Entrance Requirements:
Employment as a craftsman in the engineering or allied trades and have completed basic welding courses to an acceptable standard.

E143D. WELDING PROCESSES (UPDATING OF SKILLS)

Short courses in various aspects of Welding may be held during the session in response to demands from industry. Enquiries should be directed to the Department of Metal Fabrication.

#### Entrance Requirements:
Employment in the Engineering or Allied Trades.

E145A CASTING TECHNOLOGY - MODERN DEVELOPMENTS

**Objective:**
To provide Technician Engineers and Supervisors in the foundry industry with the skills applicable to new processes and production methods within the industry.

**Duration of Course:**
Two evenings per week for 8 weeks or other suitable arrangements.

**Entrance Requirements:**
Employment in the Foundry Industry.

E145B. METAL CASTING APPRECIATION

**Objective:**
To provide Metalwork Teachers with an appreciation of Metal Casting and metallurgy as applicable to the Intermediate Certificate & Leaving Certificate courses in Metalwork Engineering.

**Duration of Course:**
One evening per week for 3 Terms of 8 weeks each or other suitable arrangements.

**Entrance Requirements:**
Employment as Metalwork Teachers in the V.E.C. System.
E145C. **ART METAL CASTING**

**Objective:** To introduce Artists & Sculptors and others involved in making statuary and Objets d'Art, to good design practice and the principles involved in casting in Brass, Bronze and Aluminium.

**Duration of Course:** One evening per week for 8 weeks or other suitable arrangements.

**Entrance Requirements:** Appropriate to those involved in Artistic Work.

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E148. **CRAFT TECHNICIAN CERTIFICATE COURSE IN METAL FABRICATION & WELDING**

This three-year evening course of study has been designed to enable senior apprentices and craftspersons to qualify as Craft Technicians and be capable of filling supervisory positions in the Metal Fabrication and Welding Industry.

**Course of Study:**
- **Stage I:** Drawing, Materials & Process Technology, Mathematics and Engineering Science.
- **Stage II:** Drawing, Process Technology and Testing, Mathematics, Engineering Science and Computer Studies.
- **Stage III:** Plant Maintenance and Ancillary Services, Inspection Testing and Quality Control, Principles of Management, Mathematical Computer-Aided Manufacture, Engineering Science.

**Entrance Requirements:** Prospective students must have completed at least three years of an appropriate craft apprenticeship and have successfully completed the Senior Stage of the Department of Education Craft Certificate Examinations, written and practical, with at least one endorsement subject where such is offered.

**Examination and Other Requirements:** At the end of each Stage, students will be required to sit a College Examination in each subject, and pass it, before proceeding to the next Stage. A College Craft Technician Certificate will be awarded to students who have passed the College Examinations in all subjects.

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E149B. **SHEET METAL WORK — UPDATING OF SKILLS**

This course is designed for the Sheetmetal work crafts person who require to update their practical skills.

**Duration of Course:** Ten weeks, meeting on two evenings per week, Monday and Tuesday 7.00 p.m. to 9.30 p.m.

**Course Content:** The use of numerical controlled Press Break and Modern Welding Processes as applied to the Sheet Metal Industry.

**Entrance Requirements:** Employment in the Sheet Metal Industry.

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E150. **METAL FABRICATION**

This course is designed to assist Senior Apprentices and Craftsmen to prepare for the Senior Trade Certificate Examination of the Department of Education.

**Duration:** One year, one evening per week.

**Subjects:** Trade Theory & Drawing.

**Entry Requirements:** Prospective apprentices must have completed 3 years of apprenticeship and have passed the Junior Trade Certificate.

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E151A. **PLUMBING**

This course is designed to assist Senior Apprentices and Craftsmen to prepare for the Senior Trade Certificate Examination of the Department of Education.

**Duration:** One year, one evening per week.

**Subjects:** Trade Theory & Drawing.

**Entry Requirements:** Prospective apprentices must have completed 3 years of apprenticeship and have passed the Junior Trade Certificate.

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E152. **CRAFT TECHNICIAN CERTIFICATE COURSE IN PLUMBING**

This three-year course of study has been designed to prepare young craftsmen as craft technicians in the Plumbing Industry. Attendance is on three evenings per week (or alternatively on one day and one evening per week).

**Course of Study:**
- **Stage I:** Hot and Cold Water Systems, Gas Installations, Sanitation and Drainage, Mathematics, Science, Drawing and Design.
Craft and Related Courses

Stage II: Mathematics, Science, Mechanics of Fluids, Heating Technology, Drawing and Design


Entry Requirements: Prospective students must have completed at least three years of an appropriate craft apprenticeship and have successfully completed the Senior Stage of the Department of Education Craft Certificate Examination (Written and Practical) with endorsement where such is offered.

At the end of each stage, students will be required to be successful in a College examination in each subject before proceeding to the next stage. A College Craft Technician Certificate will be awarded to students who pass the final (Stage III) examination in all subjects.

E125. MOTOR CYCLE MECHANICS
Objective: The City & Guilds of London Institute Craft Certificate 389.
Course Duration: 2 years of 30 weeks each year, 3 evenings (9 hours) each week.
Entrance Requirements: Employment as a motor cycle mechanic.

E128. CONSTRUCTION PLANT FITTERS
Objective: The City & Guilds of London Institute Full Craft Certificate 620, Part III.
Course Duration: 1 year of 30 weeks, 2 evenings (6 hours) each week.
Entrance Qualifications: The City & Guilds of London Institute 620, Certificate Part II.

E129. ELECTRICAL VEHICLE MAINTENANCE
Objective: Continuing Education Programme.
Course Duration: 1 year of 30 weeks, 2 evenings (6 hours) each week.
Entrance Qualifications: Department of Education Senior Trade Certificate or equivalent.

E130. MOTOR VEHICLE PARTS PERSONNEL
Objective: The City & Guilds of London Institute 384, Vehicle Parts Personnel, Part I.
Course Duration: 2 years, 30 weeks per year, 2 evenings per week (6 hours).
Subjects: Parts Merchandising, Commercial Practice and Office Procedures, Stores Administration, Motor Vehicle Knowledge, Computer Studies.
Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

E131. MOTOR VEHICLE BODY REPAIR
Objective: The City & Guilds of London Institute 385 Parts I and II Certificates
Course Duration: Four years, 30 weeks each year.
Attendance: Three evenings (9 hours) each week.
Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

E133A. MOTOR VEHICLE CRAFT STUDIES – DIAGNOSTIC TECHNIQUES
Objective: The City & Guilds of London Institute 381 Part III.
Course Duration: Four years, 30 weeks each year.
Attendance: Three evenings (9 hours) each week.
Subjects: Diagnostic Techniques (engine), Diagnostic Techniques (transmission), Automatic Gearboxes.
Entrance Qualifications: City & Guilds of London Institute 381 Part II or equivalent.

E133B. MOTOR VEHICLE CRAFT STUDIES – COMPRESSED AIR SYSTEMS; C.I. ENGINES; FUEL INJECTION EQUIPMENT
Objective: The City & Guilds of London Institute 381 Part III.
Course Duration: One year of 30 weeks.
Craft and Related Courses

**Attendance:**
Three evenings (9 hours) each week.

**Subjects:**
Compressed Air Brakes, Compression Ignition Engines, Fuel Injection Equipment, C.I. Engines.

**Entrance Qualifications:**
City & Guilds of London Institute 381 Part II or equivalent.

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**E133C. MOTOR VEHICLE CRAFT STUDIES — ELECTRICITY/ELECTRONICS**

**Objective:**
The City & Guilds of London Institute 381 Part III.

**Course Duration:**
One year of 30 weeks.

**Attendance:**
Three evenings (9 hours) each week.

**Subjects:**
Motor Vehicle Electricity and Motor Vehicle Electronics.

**Entrance Qualifications:**
City & Guilds of London Institute 381 Part II or equivalent.

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**E134. FORK TRUCK MAINTENANCE**

**Objectives:**
Continuing Education Programme.

**Course Duration:**
6 weeks of 5 hours each week (30 hours).

**Subjects:**
Electro-Hydraulic Equipment i.e. Engine Overhaul and Maintenance.

**Entrance Qualifications:**
Department of Education Senior Trade Certificate.

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**E136. AUTOMOBILE ENGINEERING REFRESHER COURSE**

**Objective:**
Continuing Education Programme.
The City & Guilds of London Institute 381, Part III, Modular.

**Course Duration:**
Short courses of 3 weeks duration, over two evenings per week, on modern developments and techniques in the industry.

**Entrance Qualifications:**
Department of Education Senior Trade Certificate.

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**E141. COMPUTER-AIDED ENGINEERING**

**E141A. NC/CNC Machine Setting and Operation**

**Objective:**
This is a one-year course to prepare mechanical engineering craftspersons for the City & Guilds 2303 Level III Certificate.

**Course Duration:**
One year (1 evening per week).

**Entrance Qualifications:**
City & Guilds of London Institute 205 Part II or equivalent.

**E141B. NC/CNC — Part Programming**

**Objective:**
The City & Guilds of London Institute 2303 Level III Certificate.

**Course Duration:**
One year (1 evening per week).

**Entrance Qualifications:**
City & Guilds of London Institute 2303 Certificate (E141A).

**E141C. NC/CNC — Advanced Part Programming**

**Objective:**
The City & Guilds of London Institute 2304 Level IV Certificate.

**Course Duration:**
One year (1 evening per week).

**Entrance Qualifications:**
City & Guilds of London Institute 2303 Level III Certificate (E141 A & B).

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**E142. MECHANICAL ENGINEERING CRAFT STUDIES**

**Objective:**
The City & Guilds of London Institute Mechanical Engineering Craft Studies Course No. 205, Part II and Part III. Students take the appropriate Part II examination at the end of the first year of the Course and Part III at the end of the second year.

**Course Duration:**
Two years (2 evenings per week).

**Subject Options:**
Two options may be offered at Part II as follows:

- E142A Machinery
- E142B Maintenance.

Four options may be offered at Part III as follows:

- E142C Factory Services
- E142D Machining
- E142E Toolmaking
- E142F Inspection (see course E144).
Craft and Related Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Entrance Requirements</th>
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<tbody>
<tr>
<td>E144A</td>
<td>Inspection and Quality Control</td>
<td>This City &amp; Guilds scheme consists of two part-time courses for those who wish to gain a knowledge of the techniques and applications of Inspection and Quality Control. It has been designed for craft, technician and supervisory personnel and is intended to provide them with further opportunities to progress in their career.</td>
<td>City &amp; Guilds of London Institute 205, Part II or equivalent.</td>
</tr>
<tr>
<td>E144B</td>
<td>Inspection</td>
<td>The City &amp; Guilds of London Institute Mechanical Engineering Craft Studies Course No. 205, Part III.</td>
<td>City &amp; Guilds of London Institute 205, Part II or equivalent or suitable background.</td>
</tr>
<tr>
<td>E144C</td>
<td>Quality Control</td>
<td>The City &amp; Guilds of London Institute Parts I and II, 743 Quality Control Certificate. (L.S. 300)</td>
<td>Craft, Technician and Supervisory personnel with suitable backgrounds.</td>
</tr>
<tr>
<td>E154</td>
<td>Aeronautical Engineering Craft Studies</td>
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</tr>
<tr>
<td>Stage I</td>
<td>This is a one-year evening course requiring attendance for two evenings (6 hours) weekly per session. The course is designed to prepare students for Part I of the City &amp; Guilds of London Institute Examinations in Aeronautical Engineering Craft Studies (Course 208).</td>
<td>Day Vocational Group Certificate or Intermediate Certificate and employed in the Aeronautical Engineering Industry.</td>
<td></td>
</tr>
<tr>
<td>Stage II</td>
<td>This course is designed to prepare students for Part II of the City &amp; Guilds of London Institute Examinations in Aeronautical Engineering Craft Studies (Course No. 208). Mechanical Engineering Classes are held on two evenings per week for one year.</td>
<td>Part I City &amp; Guilds Aero Engineering Craft Studies.</td>
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<tr>
<td>Stage III</td>
<td>This one-year course is designed to prepare students for Part III of the City &amp; Guilds of London Institute Examinations in Aeronautical Engineering Craft Studies (Course No. 208). Classes are held on three evenings per week from October to May.</td>
<td>Part II City &amp; Guilds Aero Engineering Craft Studies.</td>
<td></td>
</tr>
</tbody>
</table>
Printing & Book Production

The School of Printing offers courses at craft apprenticeship, management, technician and Diploma levels. It also provides retraining programmes to meet the challenge of rapidly changing Technology which is impacting on the sectors of industry which it serves.

The School has a range of modern workshops and up to date facilities relating to Composing, Phototypesgraphy, Lithography, Bookbinding and Print Finishing. It maintains close links with the industry and many of its graduates hold key positions in different firms and organisations.

D80.
DIT Course
Code B130

TECHNICIAN CERTIFICATE IN PRINTING/DIPLOMA IN PRINTING MANAGEMENT*

This course is designed to prepare young people for administrative positions in printing and related industries. This course leads to a DIT Certificate award in Printing on its successful completion after two years 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 Certificate with one year of relevant work experience or an acceptable equivalent qualification.

Course of Study:

The following subjects will be included in the Diploma (third year) programme: - Management Accountancy, Marketing, Estimating, Production Planning and Control, Personnel Management, Work Study, Quality Control, and Business Law.

Awards:
Graduates of the two year course are eligible for the following award: - Technician Certificate in Printing (Dublin Institute of Technology)

Students may take appropriate examinations of the British Printing Industry Federation related to some of the above subjects while attending the course and these may be additional desirable qualifications for some positions.

It is expected that those who successfully complete the third year will be eligible for a DIT Diploma in Printing Management award when the course is validated.

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

It is expected that the Diploma graduates will find a variety of management positions within the graphic communication industries.

Dept. in Charge: Printing.

*A new Diploma stage of this course is being offered in the 1987/88 session subject to its approval by the Department of Education, and the necessary resources to mount it being available.
Technician Courses

D80A.

PRINTING TECHNICIAN CERTIFICATE (PART-TIME)

This part-time course is intended to prepare young people for administrative positions in printing and related industries.

The course involves attendance on one day and two evenings per week over four years. Entrance requirements and course of study are similar to Course D80.

D81.

DIPLOMA IN GRAPHIC REPRODUCTION TECHNOLOGY

Code B131

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 courses process a wide range of items for print production. They are trained in photocomposition, camera and studio work, paste-up and planning, offset printing, screen printing and print finishing, and are expected to use these skills to produce finished products from their own designs.

The objectives were formulated in consultation with interested people in the graphic arts industries, and are a realistic assessment of the requirements of print designers.

Entrance Requirements:

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

Intending students will be expected to present a portfolio of recent work. Please note that there is no direct entry for school leavers to this course.

Course of Study:
Print Planning; Photocomposition; Camera Work; Paste-up and Planning; Litho Printing; Screen Printing; Estimating and Administration.

Award:
Graduates of the course are eligible for the award of a Diploma in Graphic Reproduction Technology (Dublin Institute of Technology).

Career Opportunities:
Graduates should have good prospects of employment with advertising agencies, design studios, printing firms and publishing companies. They will also be capable of setting up and running their own studios or firms.

Dept. in Charge: Printing.

CRAFT & RELATED COURSES

These courses are for apprentices and young journeymen in the Printing and Bookbinding Trades. Every facility is given to students who wish to enter for the Trade Certificate Examinations of the Department of Education. These examinations are conducted in the College at the end of the session. The courses are based on the examination syllabuses of the Department. Generally, students take the Junior Stage of the Trade Certificate Examinations of the Department of Education after one year's instruction, the Intermediate Stage after two years' instruction, and the Senior Stage after three years.

D190.

COMPOSITORS' WORK
(Block-release Course)

First year attendance: twenty three weeks.
Second year attendance: eight weeks.
Third year attendance: eight weeks.

Students are prepared for the Trade Certificate Examinations of the Department of Education.

Entrance Requirements:
Apprenticeship to the trade.

D191.

BOOKBINDING
(Block-release Course)

First year attendance: twenty three weeks.
Second year attendance: eight weeks.
Third year attendance: eight weeks.

Students are prepared for the Trade Certificate Examinations of the Department of Education.

Entrance Requirements:
Apprenticeship to the trade.

D192.

LITHOGRAPHY
(Block-release Course)

First year attendance: twenty three weeks.
Second year attendance: eight weeks.
Third year attendance: eight weeks.

Students are prepared for the Trade Certificate Examinations of the Department of Education.

Entrance Requirements:
Apprenticeship to the trade.
INTRODUCTION TO PRINTING TECHNOLOGY

A course requiring attendance for 2 evenings each week designed to provide those engaged in the Clerical and Administrative side of Printing with a general knowledge of the technology involved in modern printing and of the materials and appliances used. Students who complete the course may enter the General Technical Knowledge examination of the British Printing Industries Federation. It is necessary to have passed the General Technical Knowledge examination to be accepted as a candidate for the following:

(a) Estimating examination of the British Printing Industries Federation.
(b) Printing Office Procedure examination of the British Printing Industries Federation.

COST ACCOUNTANCY FOR PRINTERS

A course requiring attendance for two evenings each week designed to prepare students for the examination of the British Printing Industries Federation.

Entrance Requirements: Employment in the Industry.

Examination: Reprographic Technique Certificate examination 517 of the City & Guilds of London Institute.

ESTIMATING FOR PRINTERS

A course requiring attendance for two evenings each week designed to prepare students for the examination of the British Printing Industries Federation.

Entrance Requirements: Leaving Certificate and General Technical Knowledge Certificate of the British Printing Industries Federation or equivalent.

PAPER TECHNOLOGY AND MARKETING

A 2-year course for employees of Paper Mills and Paper Merchants and Printers' employees engaged in the handling of paper transactions. Students are prepared for the examination of the National Association of Paper Merchants.

Entrance Requirements: Department of Education Leaving Certificate or equivalent.
E87. DESIGN FOR PRINTING
This is a two-year course to prepare students for the City & Guilds of London Institute examination in Design for Printing. Classes are held on two evenings per week.

Entrance Qualifications: Department of Education Leaving Certificate or Department of Education Senior Certificate in a graphic arts subject or other equivalent qualification.

E88. INTRODUCTION TO MANAGEMENT (GRAPHIC INDUSTRIES)
Duration of Course: A one-year course requiring attendance at the College for two evenings per week (6 hours).

Entrance Qualifications: Department of Education Senior Trade Certificate in one of the following:
Composing; Letterpress Machine Printing; Lithography and Photo-Lithography; Bookbinding and Print Finishing. Mature students with experience in the industry but who do not possess any of the foregoing qualifications may, in exceptional cases, be admitted to the course.

Subjects: Aspects of departmental management; human relations and communications in industry; production organisation; production processes.

Objectives of Course: City & Guilds of London Institute Certificate in Introduction to Management (Graphic Industries).

E89. PACKAGING TECHNOLOGY
The course is intended for management and administrative personnel engaged in packaging and related industries. Students are prepared for the examinations of the Institute of Packaging.


Entrance Qualifications: Employment in Packaging Administration. Enrolled students are required to apply for student membership of the Institute of Packaging before commencement of the course.

Attendance: Two evenings per week, three hours each evening.

E96. PRINT SALES
An evening course for sales personnel in the Graphic Arts Industry and for those aspiring to make Graphic Arts sales their career.

Objective: B.P.I.F. examination in Printing Salesmanship.

Course Duration: One year, one evening (2 hours) per week.

Entrance Requirements: G.T.K. examination of the B.P.I.F., or Senior Trade Certificate in Printing or equivalent.

E180. BOOK AND ARCHIVE RESTORATION
The purpose of the course is to train students in the repair and presentation of books, documents, etc. It is of particular value to the staffs of hand bindaries, local record offices and those libraries concerned with the care of manuscripts and archives. Attendance is required on one evening per week. Students will be required to provide some of the materials used.

E182. PRINT FINISHING
This course covers techniques and materials used in the production of books, magazines, and a wide range of miscellaneous work handled in the print finishing department. Stress will be laid on hand and machine operations, e.g., wire stitching, sewing and folding, machine and hand feeding, gathering, gluing, mounting etc.

E191. BOOKBINDING AND PRINT FINISHING, RETRAINING
This is an evening course for post apprenticeship students with instruction in the latest techniques, and covers the whole range of materials and technology used in print finishing processes.

E192. LITHOGRAPHY AND PHOTO-LITHOGRAPHY RETRAINING
This is an evening course for post apprenticeship students with instruction in the latest techniques of lithographic plate making and press operation. Craftsmen having completed apprenticeship to other printing processes undergo retraining in lithographic printing.
E195A.

**ELECTRONIC COMPOSITION**

This is a two-year evening course of practical training for suitably qualified personnel, on a wide range of phototypesetting and strike-on composition equipment.

Equipment includes: Pacesetter Mk IV, Linoscreen Visual Display Unit, Linocomp Direct Input phototypesetter with electronic tape reader, Varicomp 1100 keyboard, Linotype Paul NJ200 keyboard, IBM 72 Composer, IBM Electronic Composer, Linofilm Keyboard and Photo Unit.

E195B.

**PASTE-UP/PLANNING/CAMERA**

This evening course for suitably qualified personnel, covers all aspects of newspaper paste-up including equipment, text and headline origination, grids and formats, methods of adhesion, corrections, illustration, advertisements, borders, colour spots, page assembly, proofing, planning and camera operation.

E200.

**SCREEN PRINTING**

This is a one-year course designed to update the skills of people already employed in Screen Printing.

One evening, 3 hours per week.

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**EXAMINING BODIES**

**External Examinations:**

The courses relate to the Examinations of the following bodies:

1. **Department of Education**

   (a) Technological Certificate Examination in:
   
   (i) Building
   (ii) Mechanical Engineering
   (iii) Motor Car Engineering
   (iv) Mathematics

   (b) Trade Certificate Examinations in:
   
   (i) Bricklaying and Masonry
   (ii) Cabinetmaking
   (iii) Carpentry and Joinery
   (iv) Compositors' Work
   (v) Lithography
   (vi) Bookbinding
   (vii) Motor Car Engineering
   (viii) Painting and Decorating
   (ix) Plasterers' Work
   (x) Plumbing
   (xi) Fitters' & Turners Work
   (xii) Toolmaking
   (xiii) Metal Fabrication
   (xiv) Sheet Metalwork
   (xv) Welding

2. **Professional Institutions**

   (i) Construction Surveyors' Institute
   (ii) The Engineering Council
   (iii) Institution of Engineers of Ireland
   (iv) Institution of Mechanical Engineers
   (v) Institution of Production Engineers
   (vi) Institution of Structural Engineers
   (vii) Chartered Institute of Building Services
   (viii) Institution of Industrial Managers
   (ix) Chartered Institute of Building
   (x) Royal Institution of Chartered Surveyors
   (xi) Royal Institute of the Architects of Ireland
   (xii) Institution of Road Transport Engineers

3. **Other Bodies**

   (i) British Federation of Master Printers
   (ii) City & Guilds of London Institute
   (iii) Department of Tourism & Transport (Licences in Aeronautical Engineering)
   (iv) Institute of Domestic Heating Engineers
   (v) Institute of the Motor Industry
   (vi) National Association of Paper Merchants
Academic Staff

Peter Murphy FTC C&G
Dermot Russell FTC C&G
James G. Stewart FTC C&G
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2 College of Technology, Kevin Street, Dublin 8. Telephone 757541
3 Dublin College of Catering, and Hotel Management, Cathal Brugha Street, Dublin 1. Telephone 747886
4 College of Commerce, Rathmines, Dublin 6. Telephone 970666
5 College of Marketing & Design, Mountjoy Square, Dublin 1. Telephone 742721
6 College of Music, Chatham Row, Dublin 2. Telephone 778903
7 Dublin Institute of Technology, Admissions Office, 14 Upper Mount Street, Dublin 2. Telephone 766584