1987 - 1988 : Bolton Street College of Technology Prospectus

City of Dublin Vocational Educational committee

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Recommended Citation
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    Wholetime 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

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 2

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,

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<td>Monday 28 September to Friday 11 December</td>
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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 TEICNOLEAÍOCHTA
BHAILE ÁTHA CLIATH

CITY OF DUBLIN VOCATIONAL
EDUCATION COMMITTEE

DUBLIN INSTITUTE
OF TECHNOLOGY

COLÁISTE
TEICNOLEAÍOCHTA
SRÁID BHOLTÚIN
BAILE ÁTHA CLIATH 1

COLLEGE 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, MEconSc, CEng, FIIE

City of Dublin Vocational Education Committee
Administrative Offices: Town Hall, Ballsbridge Dublin 4, Phone 680614
Chief Executive Officer: W. J. Arundel, BComm, HDip.
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CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

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

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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 Sefton, 51 Rochestown Avenue, Dun Laoghaire, Co. Dublin.
Patrick Donegan, 121 Shanard Road, Dublin 9.
Barry Early PC 161 Sutton Park, Dublin 13.
Councillor Mary Hanifin 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.
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Councillor Charles McManus 12 Walkinstown Drive, Dublin 12.
Councillor Michael O‘Halloran PC, 141 Ardlea Road, Dublin 5.
Séamus Uas Puirseil 16 Hampton Cove, Ballybrigh, Co. Atha Cliath.
Chief Executive Officer W.J. Arundel

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Councillor Andrew Callaghan
Councillor Patrick Carey
Councillor Michael O‘Halloran PC
Séamus Uas Puirseil
Michael O‘Donnell BE
Matthew Connolly
Tom Fitzpatrick
Gerry Shanahan
Wolfgang Truetzschler
Chris Wall

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Mr. Patrick Donegan
Mr. H. B. Early
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Councillor Andrew Callaghan
Mr. Richard Kearney
Mr. Aidan O‘Mara
Mr. Charles O‘Rourke
Mr. Michael O‘Donnell (College Principal)
Miss Alice Prendergast, Staff Representative
Mr. Aidan Kerins, Student Representative
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Mrs. E. Farrell, BMus MMus
Dr. J. Fisher, BA BAI HDipEd PhD
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Mr. P. R. Flood, BComm MPA FMII MIITM
Dr. B. Goldsmith, BSc MSc DPhil
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Mr. J. Hegarty, MEd DipHTLMgt MIHCI
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Mr. P. J. Henry, BComm MBA
Mr. J. S. Hickey, MSc BA
Dr. M. Hussey, BE MS PhD CPhys FInstP CEng MIEE
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Mr. R. Lawlor, BA MBA FIHCI
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Mr. C. Nutty, BA MPA FMS
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Mr. M. O’Donnell, BE BComm MEconSc CEng FIEI
Mr. J. O’Keeffe, BArch FRIA1
Miss M. O’Sullivan-Farrell, BMus DipMus LTCL
Ms. A. Prendergast, BComm HDipEd
Mrs. M. Proctor, MSc MIFSTI MIHCI
Mr. E. J. Rothery, BSc CChem FRIC FICI MIBiol
Miss B. A. Ryan, BSc MSc MICI MIBiol DipIndMicrob
Mr. K. Sullivan, DipEng MSc MIEI
Mr. P. Sullivan, BA HDipEd MA
Mr. J. K. Taffe, BSc MSc MInstP MBA HDipEd DipProd
Barrister-at-Law
Miss K. M. Tierney, MA

Education Officer: Mr. E.P. Tuffy BSc MEd.
Academic Registrar: Mr. T. Duff BSc MIProdE

Office: 14 Upper Mount Street, Dublin 2. Tel. 766584/762652.
## GUIDE TO COURSES

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<td>E144C</td>
<td>Quality Control</td>
<td>110</td>
</tr>
<tr>
<td>E154</td>
<td>Aeronautical Engineering Craft Studies</td>
<td>110</td>
</tr>
<tr>
<td>E154A</td>
<td>Aeronautical Engineering Craft Studies (Mechanical)</td>
<td>111</td>
</tr>
</tbody>
</table>

#### Whole-time Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>D80</td>
<td>Technician Certificate in Printing/Diploma in Printing Management</td>
<td>113</td>
</tr>
<tr>
<td>D81</td>
<td>Diploma in Graphic Reproduction Technology</td>
<td>114</td>
</tr>
</tbody>
</table>

#### Part-time Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>D80A</td>
<td>Printing Technician Certificate</td>
<td>114</td>
</tr>
<tr>
<td>D190</td>
<td>Compositors’ Work</td>
<td>115</td>
</tr>
<tr>
<td>D191</td>
<td>Bookbinding</td>
<td>115</td>
</tr>
<tr>
<td>D192</td>
<td>Lithography</td>
<td>115</td>
</tr>
<tr>
<td>D199</td>
<td>Phototypesetting</td>
<td>116</td>
</tr>
<tr>
<td>D200</td>
<td>Screen Process Printing</td>
<td>116</td>
</tr>
<tr>
<td>D98</td>
<td>Inplant Printing</td>
<td>116</td>
</tr>
</tbody>
</table>

#### Evening Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>E83</td>
<td>Introduction to Printing Technology</td>
<td>117</td>
</tr>
<tr>
<td>E84</td>
<td>Cost Accountancy for Printers</td>
<td>117</td>
</tr>
<tr>
<td>E85</td>
<td>Cost Estimating for Printers</td>
<td>117</td>
</tr>
<tr>
<td>E86</td>
<td>Paper Technology and Marketing</td>
<td>117</td>
</tr>
<tr>
<td>E87</td>
<td>Design for Printing</td>
<td>118</td>
</tr>
<tr>
<td>E88</td>
<td>Introduction to Management (Graphic Industries)</td>
<td>118</td>
</tr>
<tr>
<td>E89</td>
<td>Packaging Technology</td>
<td>118</td>
</tr>
<tr>
<td>E96</td>
<td>Print Sales</td>
<td>119</td>
</tr>
<tr>
<td>E180</td>
<td>Book and Archive Restoration</td>
<td>119</td>
</tr>
<tr>
<td>E182</td>
<td>Print Finishing</td>
<td>119</td>
</tr>
<tr>
<td>E191</td>
<td>Bookbinding and Print Finishing (Retraining)</td>
<td>119</td>
</tr>
<tr>
<td>E192</td>
<td>Lithography and Photo-Lithography (Retraining)</td>
<td>119</td>
</tr>
<tr>
<td>E195A</td>
<td>Electronic Composition</td>
<td>120</td>
</tr>
<tr>
<td>E195B</td>
<td>Paste-up/Planning/Camera</td>
<td>120</td>
</tr>
<tr>
<td>E200</td>
<td>Screen Printing</td>
<td>120</td>
</tr>
</tbody>
</table>
Is cuí d’Institiúid Teicneolaíochta Bhaile Átha Cliath an Coláiste seo. Cuirdeadh an t-Institiúid ar bun sa bhliain 1978 chun na coláistí den triú leibhéal atá faoi chúram Choiste Gairm-oideachais Cathair Átha Cliath a chomhnascadh. San Institiúid tá breis is 1,500 foireann teagasc agus 22,000 mac léinn.

Tá an Coláiste seo faoi stiúrú ag Comhairle an Choláiste, fo-choiste den Choiste Gairm-oideachais. Tá scoileanna sa Choláiste, mar a leanas:—

Ailtfreacht, Suirbhéireacht agus Tógálaíochta
Innealtóireacht
Clódóireacht
Cardanna

Tá cúrsaí lán-aimsire agus páirt-aimsire ar fáil ar leibhéal na teicneolaíochta, teicneoireachta agus cardanna. Tá deontas Stáit agus scoláireachtaí in fochta, i gcásanna áirithe, do mhic léinn.

San mbunoeolaire seo, tá cur síos ar na cúrsaí éagsúla, na cáilíochtaí iontrála agus na cáilíochtaí gur féidir a bhaint amach (teastas, barrántas, comhaltachas i gcumainn ghairmiúla nó céim ollscoile).

Tagann na daltai ó gach cuí den tír, cuí anuonn Gaeltacht, cuí eile ón iasacht. Tá súil ag lucht an gColáiste go nglaicfadh na mic léinn páirt gníomhach i saol an Choláiste.
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 1926 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 1940's 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 whole-time 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>FT01 ARCHDEG</td>
<td>Architecture</td>
</tr>
<tr>
<td>D3</td>
<td>FT03 EECNDEG</td>
<td>Property Economics</td>
</tr>
<tr>
<td>D4</td>
<td>FT02 ECNDEG</td>
<td>Construction Economics</td>
</tr>
<tr>
<td>*D42M</td>
<td></td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>*D42P</td>
<td>*FT04 ENGDEG</td>
<td>Production Engineering</td>
</tr>
<tr>
<td>*D42S</td>
<td></td>
<td>Structural Engineering</td>
</tr>
<tr>
<td>*D42B</td>
<td></td>
<td>Building Services Engineering</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 ........................................... IR£18.00

Late Application Fee ....................................... IR£40.00

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.
# General Information and Regulations

## Course Description and Duration

<table>
<thead>
<tr>
<th>College Course Code</th>
<th>Course Description</th>
<th>Course Duration (Years)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>D2A</strong></td>
<td>Construction Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td><strong>D5A</strong></td>
<td>Geo-Surveying Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td><strong>D12</strong></td>
<td>Architectural Technician Diploma</td>
<td>3</td>
</tr>
<tr>
<td><strong>D21</strong></td>
<td>Auctioneering &amp; Estate Agency Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td><strong>D40</strong></td>
<td>Buildings Maintenance Technician Certificate</td>
<td>2</td>
</tr>
<tr>
<td><strong>D44</strong></td>
<td>Preliminary Engineering</td>
<td>1</td>
</tr>
<tr>
<td><strong>D46C</strong></td>
<td>Motor Industry Management</td>
<td>2/3</td>
</tr>
<tr>
<td><strong>D46H</strong></td>
<td>Civil Engineering Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td><strong>D46M</strong></td>
<td>Building Services Engineering Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td><strong>D80</strong></td>
<td>Mechanical Engineering Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td><strong>D81</strong></td>
<td>Printing Technician Certificate/Diploma in Printing Management</td>
<td>2/3</td>
</tr>
<tr>
<td></td>
<td>Graphic Reproduction Technology Diploma</td>
<td>1</td>
</tr>
</tbody>
</table>

## Method of Application

The DIT applications Procedure is divided into two parts:—

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

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

to reach there not later than 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______£5*
- 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 transferee, 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.
General Information and Regulations

The date by which the Part 2 DIT application form 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 Insititute 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.

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 in writing in early September and invited to register for the course immediately. Students attending for registration and enrolment are required to have the following:

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

Wholetime Courses

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></td>
<td>Higher</td>
<td>Ordinary</td>
</tr>
<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.
General Information and Regulations

(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.

<table>
<thead>
<tr>
<th>Fees</th>
<th>Irish and other EEC Students</th>
<th>Per Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Wholetime Diploma/ Degree Courses</td>
<td>D1; D42M; D42P; D42S; D42B</td>
<td>£800</td>
</tr>
<tr>
<td>2. do do.</td>
<td>D3; D4</td>
<td>£640</td>
</tr>
<tr>
<td>3. Wholetime Technician and Other Courses</td>
<td>D2A; D8; D12; D40; D44; D45; D80; D81</td>
<td>£400</td>
</tr>
<tr>
<td>4. do do</td>
<td>D5A; D46C; D46H; D46M; (1st &amp; 2nd years)</td>
<td>£437</td>
</tr>
<tr>
<td>5. do do</td>
<td>D5A; D46G; D48H; D48M (3rd years)</td>
<td>£448</td>
</tr>
<tr>
<td>6. Part-time day and evening courses</td>
<td>D28; D31; D41; D43C; D43M; D43V; D47; D55; D80A; D96; D120; D134; D136; D143D; D152; D154A; D199; D200</td>
<td>£160</td>
</tr>
<tr>
<td>7. do do</td>
<td>D4A</td>
<td>£375</td>
</tr>
</tbody>
</table>

| Fees | Overseas Students from Non-EEC Countries | £1717 |

18
Notes

(a) Students who are enrolled in Colleges through Irish Government Agencies may be admitted on paying the same fees as Irish students.

(b) Fees are payable before commencing attendance at classes and are not refundable except where a class or course does not form. An enrolment is not transferable from one student to another.

(c) In cases of hardship it may be possible to obtain remission of fees. Applications in this context should be made directly in confidence to the Principal stating the circumstances and if possible should be accompanied by a letter of support from someone familiar with the applicant (e.g. Clergyman).

(d) 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 presented on first attendance at each class.

(e) Fees quoted for wholetime courses (marked t) include an examination entry fee.

All Course and Examination Fees quoted are subject to revision.

Grants and Scholarships

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

(b) VEC Scholarships: Students who register for courses leading to Certificate or Diploma awards are eligible to apply to the Vocational Education Committee of the area where their parents or guardians normally reside for a VEC Scholarship. Information on eligibility conditions and application forms are available from the appropriate Vocational Education Committee.

(c) ESF Training Grants: ESF (European Social Fund) training grants may be available to Irish students aged between 16 and 25 years while they are pursuing certain two year courses provided their attendance record and general performance is satisfactory. These grants cover tuition fees and also provide for payment of a monthly allowance. The courses which were included in the scheme in the 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 TechnicianCourses 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 whole-time 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 trade...
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 lates 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 week-day. 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.
General Information and Regulations

Applications for entry to examinations received after these closing dates will be considered only in exceptional circumstances and at the discretion of the College Examinations Executive Board. Such applications are subject to a late entry fee of £25.00. The closing dates each year for receipt of College examination entry forms and fees are 31st January for the Summer examinations and 31st July for the Autumn examinations. No application for entry to College examinations will be considered if received later than 1st March for Summer examinations or 15th August for Autumn examinations.

Students should note carefully the Examination Rules and Regulations which are printed on the Examination Entry forms and the Examination Timetables.

Promotion Regulations

Promotion to a higher year or stage in any subject is contingent on reaching the required standard in the sessional examination in the lower grade. A candidate unsuccessful in a sessional examination may be permitted to sit a Supplemental examination, in relation to the same session, where such is offered in accordance with the regulations established for the course. Candidates who do not complete an examination in all subjects of the year or stage, or who are required to submit additional work, e.g. project or thesis, to the Examination Board for assessment before graduation or promotion to the next year of the course, must re-enter for that examination before 31st January and pay the appropriate fees.

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.

General Examination Information

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.

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.

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.

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 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.
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. Monday to Friday, and in the evenings at special periods of the year at times which will be posted on the Notice Board. Except during enrolment periods, members of the staff will not be available for interviews or consultations except by prior appointment.

The Accounts Office will deal with enrolments and examination entries at the following times:
- 9.00 a.m. - 12.00 noon
- 2.00 p.m. - 4.00 p.m.

**Cafeteria Facilities**

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

**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 College 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 Forbartha, 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 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.
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.
General Regulations

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
The Minister for Education Mrs. Mary O'Rourke TD opening the DIT Central Computer Centre. Also shown are Mr. M. O'Donnell, Director DIT, Councillor Liam Fitzgerald TD, Chairman CDVEC and Mr. Liam Arundel Chief Executive Officer CDVEC.
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.
ARCHITECTURE — DIPLOMA/DEGREE

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

Entrance Requirements:

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

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

Course of Study:

First Year:

Second Year:

Third Year:

Fourth Year:

Fifth Year:
Studio Work; Economics and Cost Control, Urban Design, Professional Practice II, Structural Engineering IV, Conservation Studies, Building Construction V.

Awards:

Graduates of this course are eligible for the following awards:
Diploma in Architecture (Dublin Institute of Technology)
Bachelor of Architectural Science (University of Dublin)
They are also eligible on graduation for Associate Membership of the Royal Institute of Architects of Ireland. Following two years of postgraduate 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

**D8**

**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.
Technological and Technician Courses

First Year

Course of Study

Second Year:

Third Year:

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

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

Career Opportunities:
The majority of graduate Architectural Technicians are employed in private professional architectural offices. Other areas of employment are the architectural and technical sections of Government Departments, Semi-State bodies, Local Authorities, and the building industry generally, with Contractors and Manufacturers.

A number choose to work overseas for a few years to gain useful and wider experience.

Dept. in Charge: Architecture & Town Planning.

D3

PROPERTY ECONOMICS
DIPLOMA DEGREE

This is a four year whole-time 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.


During this year students undertake a major integrated project.

Fourth Year: Planning, Urban Economics, Valuations.

In the Fourth Year each student prepares a major dissertation as part of the Final Examination.

Awards:
Graduates of this course are eligible for the following awards:
Diploma in 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

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

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

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
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 Economics Graduates have obtained employment in quantity surveyors offices and in the construction industry with contractors and developers.

Dept. in Charge: Surveying & Building Technology.

D2A
D.I.T. Course
Code B114
CONSTRUCTION TECHNICIAN CERTIFICATE/ DIPLOMA
This is a wholetime course leading to a Construction Technician Certificate award after two years and a Diploma award on completion of an additional year. It is designed to meet the needs of the construction industry for technical staff having a sound understanding of the principles of construction and construction materials, together with a good appreciation of management skills and the economics of the industry.
### Entrance Requirements

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

**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.**
GEO-SURVEYING TECHNICIAN CERTIFICATE/ DIPLOMA

This wholetime course prepares students for a Technician Certificate award in Geo-Surveying after two years and a Technician Diploma award on completion of an additional year. There is a good balance between the theoretical and practical aspects of Geo-Surveying thereby ensuring a sound understanding of the applications of its technology. Project work is a significant feature of the course and it is an important element in the overall assessment.

Enterance 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
D.I.T. Course
Code B901

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
D.I.T. Course
Code B112

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
D.I.T. Course
Code B103

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
D.I.T. Course Code 116

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

Dept. in Charge: Surveying & Building Technology.

BUILDINGS MAINTENANCE TECHNICIAN
CERTIFICATE COURSE

This 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.

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

D2B
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.

D4A
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.

D9
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.
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.


Dept. in Charge: Surveying and Building Technology.

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
DIT Course Code B122
C.A.O. Course Code: FT04

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


**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.

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

Second Year:

Third Year:

Fourth Year:
Mathematics and Computing, Control Engineering, Manufacturing Technology, Mechanics, Materials Science, Production Management and Laboratory Work.

A major project is also undertaken.

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

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.
Technological and Technician Courses

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 postgraduate 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.

D42S
C.A.O. Course Code: FT04
DIT Course Code B124

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

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

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

Technological and Technician Courses

Third Year:

Fourth Year:
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.

D42B

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
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:

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

DIT Course Code B127

BUILDING SERVICES ENGINEERING TECHNICIAN – CERTIFICATE AND DIPLOMA

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

Entrance Requirements:

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

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

**Course of Study:**

**First Year:** Mathematics, Mechanics, Engineering Science, Drawing, Instrumentation and Materials, Building Construction and Services, and Complementary Studies.

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


**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.
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

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.
DIT Course Code B150

**TECHNICIAN CERTIFICATE IN TRANSPORT ENGINEERING — DIPLOMA IN MOTOR INDUSTRY MANAGEMENT**

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

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

**Course of Study:**

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


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

**Awards**
Graduates of the course are eligible for the following awards:

- Technician Certificate in Transport Engineering (Dublin Institute of Technology)
- Diploma in Motor Industry Management (Dublin Institute of Technology)
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
DIT Course Code B160

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.


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

D31 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 D46C 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.

Technological and Technician Courses

Stage III — Fifth and Sixth Years — Diploma Stage — This stage offers options in Municipal Engineering and Structural Engineering. Candidates are expected to be employed and gaining suitable experience in the appropriate field and are required to have passed the Certificate Stage with Credit, or have at least one year's suitable experience together with a Pass Certificate. Subjects: Mathematics, Road Engineering, Management Studies, Planning and Building Regulations, Hydraulics and Sanitary Services, Design and a Project (Municipal option) and Mathematics, Management Studies, Theory of Structures, Structural Design (Concrete), Structural Design (Steel), Municipal Engineering, and a project (Structural Option).

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.

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.

Dept. in Charge: Engineering Technology.

D43M

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.

Course of Study:

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, Electrotechnology and Industrial Instrumentation, Complementary Studies.
Technological and Technician Courses


Stage III — Fifth and Sixth Years — Diploma Stage: At this stage an Instrumentation Option is offered on a part-time basis at present and candidates are expected to be employed in this field.


Candidates are required to have passed the Certificate Stage with Credit or to have at least one year’s suitable experience together with a Pass Certificate.

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.

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.

Dept. in Charge: Engineering Technology.

D43V

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 II — 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.
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;
(j) Water Pollution Control;
(l) Energy Conservation;
(m) Engineering Costing and Estimating.

Dept. in Charge: Engineering Technology.
ENGINEERING — EVENING COURSES

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.
The requirement for student membership of the Institution of Engineers of Ireland is Leaving Certificate with Honours or GCE Advanced Level in Mathematics and a suitable Science subject together with four Ordinary Level subjects including English.

Certain Technician qualifications also meet the educational requirements for student membership and may give exemption from all or some subjects in Part 1. Details are available from the appropriate Institution.

Dept. in Charge: Engineering Technology.

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's 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.

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, Electrotechnology and Industrial Instrumentation, 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 Technicians' 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.

E47

MECHANICAL ENGINEERING TECHNICIAN 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.
Technological and Technician Courses

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

Course of Study: First Year:

Second Year:
Production and Operational Management, Industrial Finance, Personnel and Industrial Relations.

Third Year (Diploma Stage):
This involves a further one year period of study of Industrial Management Policy and Practice during which knowledge acquired during the Certificate course is applied to solve practical problems by an integrated approach using case studies, etc.

Examination and Other Requirements:
Students must pass a College examination at the end of each year. The examination is moderated by the Institution of Industrial Managers. Those who successfully complete the Certificate course qualify for Associate Membership of the Institution of Industrial Managers. Successful students may continue their studies on to the one year Diploma course, which leads to the Membership grade (MIIM)

Those who enrol are required to apply to become student members of the Institution prior to embarking on the Course.

Dept. in Charge: Engineering Technology.

E58

REFRIGERATION ENGINEERING TECHNICIANS COURSE
This is a two-year course for Technicians employed in the refrigeration engineering industry. Suitable students are prepared for the 257 City & Guilds of London Institute examinations in Science and Technology of Refrigeration. The subjects of instruction are:— Science, Refrigeration Processes and Machinery, and Drawing.

Dept. in Charge: Engineering Technology.

E60

DOMESTIC HEATING AND ENVIRONMENTAL COURSE
This three-year evening course prepares students for the examination of the Institute of Domestic Heating Engineers. Successful candidates will be eligible for entry to the Institute. Membership may gain entry, with some exemptions, to the part-time Building Services Engineering courses (D43V or E43V).
Technological and Technician Courses

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

Requirements: Three evenings per week over three years.

Duration of Course:

Course of Study: First Year:
Drawing, Physics, Mathematics, Heat Transfer.

Second Year:

Third Year:

About the Institute
The Institute of Domestic Heating Engineers was originally established in Britain. In 1982 the Irish branch of I.D.H.E. gained autonomy and is now recognised as I.D.H.E. International.

The Institute awards its own diploma to candidates who successfully complete the three year course. The diploma entitles candidates to application for use of the Institute’s titles.

Dept. in Charge: Engineering Technology.

E63 FIRE ENGINEERING COURSE
This is a two-year course which prepares students for the Graduateship examinations of the Institute of Fire Engineers.

Entrance Requirements: Leaving Certificate or equivalent standard and employment as a Fire Officer.


Dept. in Charge: Engineering Technology.

E39 ROAD TRANSPORT STUDIES
This three-year course prepares students for the membership examinations of the Institute of Road Transport Engineers and Certificate of Professional Competence of the Department of the Environment.

Entrance 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 Requirements: 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  
Objective: 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.


Dept. in Charge: Automobile Engineering.

E46  
FLIGHT OPERATIONS OFFICER (DISPATCHER COURSE)  
Purpose: 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

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.

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.

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 — ROLLS ROYCE SPEY
E52M. 'X' LICENCE — INSTRUMENTS
E52N. 'X' LICENCE — ELECTRICAL
E52P. 'X' LICENCE — RADIO
E52Q. 'X' LICENCE — RADIO (RADAR ENDORSEMENT)
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 years' duration requiring attendance on two evenings per week.

Entrance Requirements: Basic Aeronautical Engineering Certificate in appropriate category.

Dept. in Charge: Aeronautical Engineering.
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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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 Kierans, 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

Craft and
Craft Based Technician Courses
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 Metalwork.

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.
The Minister for Labour, Alderman Bertie Ahern TD, with some of the chairpersons and speakers before opening a conference on 'Future Directions for Apprenticeships and Training' held in the College.
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 - D122 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.
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

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

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.

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. FOUNDRY 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 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 as a Metal Fabrication apprentice.
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.

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

D151A. PLUMBING — DAY RELEASE

This course requires attendance on one day per week over 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 Plumbing & Heating 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 and 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.
Objective: HEAVY VEHICLE MECHANICS – BLOCK RELEASE
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.
Objective: HEAVY VEHICLE MECHANICS – DAY RELEASE
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.
Objective: MOTOR CYCLE MECHANICS
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Objective</th>
<th>Duration of Course</th>
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<th>Subjects</th>
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<tbody>
<tr>
<td>D127C</td>
<td>LIGHT VEHICLE MECHANICS – DAY RELEASE</td>
<td>Department of Education Junior and Senior Trade Certificates plus endorsement subjects and the City and Guilds of London Craft Certificate.</td>
<td>4 years of 38 weeks each year.</td>
<td>1 day (7 hours) and 2 evenings (6 hours) each week.</td>
<td>Motor Vehicle Technology, Motor Vehicle Electricity, Engineering Science, Mathematics, Technicial Drawing, Workshop Practice, Garage Practice, General Studies.</td>
<td>Day Vocational Group Certificate or Intermediate Certificate.</td>
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### Craft Courses

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<th>Course Code</th>
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<th>Subjects</th>
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</table>
Craft Courses

**D128C.**  CONSTRUCTION PLANT FITTERS COURSE – DAY RELEASE

Objective: The City & Guilds of London Institute 620, Parts I and II.
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.

**D130.**  MOTOR VEHICLE PARTS PERSONNEL

Objective: The City & Guilds of London Institute Vehicle Parts Personnel Certificate 384, Part I.
Duration of Course: 2 years part-time day and evening course (9 hours per week).
Subjects: Parts Merchandising, Commercial Practice and Office Procedures, Stores Administration, Motor Vehicle Knowledge, General Studies including English and Computer Studies.
Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

**D131A.**  LIGHT VEHICLE BODY REPAIR – OFF-THE-JOB

Objective: The City & Guilds of London 385 Certificate
Duration of Course: Six months part time day (7 hours) and two evenings (6 hours) each week.
Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

**D131B.**  LIGHT VEHICLE BODY REPAIR – BLOCK RELEASE

Objective: The City & Guilds of London 385 Certificates Parts I and II
Duration of Course: Block release for 11 weeks during each year of apprenticeship
Entrance Qualifications: Day Vocational Certificate or Intermediate Certificate.
D131C. LIGHT VEHICLE BODY REPAIR — DAY RELEASE

Objective: The City & Guilds of London Institute 385, Parts I and II Certificates.

Duration of Course: 4 years part-time day and evening course, 1 day (7 hours) and 2 evenings (6 hours) each week, 38 weeks each year.


Entrance Qualifications: Day Vocational Group Certificate or Intermediate Certificate.

D134. AUTO-ENGINEERING TECHNICIANS

Objective: Department of Education Advanced Motor Car Engineering Technological Certificate and the City & Guilds of London Institute Motor Vehicle Technicians Full Technological Certificate 390, Parts II and III.

Duration of Course: 1 year part-time day (7 hours) and 2 evenings (6 hours) each week for 38 weeks.


Entrance Qualifications: Department of Education Senior Trade Certificate with endorsement subjects and Department of Education Intermediate Motor Car Engineering Technological Certificate (2 subjects) or the City & Guilds of London Institute 390, Part I.

D136. AUTOMOBILE ENGINEERING REFRESHER COURSE

Objective: Continuing Education Programme to prepare for the City & Guilds of London Institute 381, Part III, Modular.

Duration of Course: Short courses of 20 hours duration on modern developments and techniques in the industry.

Entrance Qualifications: Department of Education Senior Trade Certificate.

D140. FITTING AND TURNING — DAY RELEASE

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

Duration of Course: Four years of day release (1 day and 1 evening per week).


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


**Department of Construction Trades ‘B’** — E1, E120, E121A&B, E122A&B


**Department of Engineering Trades** — E141A, E141B, E141C, E142, E144A, E144B, E144C.

**Department of Aeronautical Engineering** — E154, E154A.

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**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.
E120

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).

E101

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.

E102

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

Subjects: Trade Theory & Drawing.

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

E104. CONSTRUCTION CRAFTS SUPPLEMENTARY STUDIES

E104A. Colour in Building Work
This course is designed to give craftspersons an opportunity to study colour, texture and pattern in building work.

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

Course Content: The effects of colour, light, pattern and texture on building form and character.

Entry Requirements: Senior Trade Certificate of the Department of Education in an appropriate construction trade or an equivalent qualification.

Examination Objective: City and Guilds of London Institute Certificate 600-1-09.

E104B. Design in Building Work
This course is intended to give craftspersons an opportunity to study structure, function and visual effects in buildings.

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

Course Content: Design evaluation of structure, function and visual effects in buildings.

Entry Requirements: Senior Trade Certificate of the Department of Education in an appropriate construction trade or an equivalent qualification.

Examination Objective: City and Guilds of London Institute Certificate 600-1-15.

E105. PAINTING & DECORATING
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.
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.

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.

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.

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-ACETHYLENE
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 apprentices 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**
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**
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.
Craft and Related Courses

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.

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, Mathematics, 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.

E149A. SHEET METAL WORK

This course is designed to assist Senior 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 students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.
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

**Stage III:** Organisation and Management Techniques, Estimating and Quantities, Heating Technology, Welding Technology, Design Project.

**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.

**Subjects:** Motor Cycle Technology, Electricity, Engineering Science, Mathematics, Technical Drawing, Workshop Practice, General Studies.

**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.

**Subjects:** Power Units and Associated Systems, Vehicle Systems and Vehicle Recovery.

**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.

**Subjects:** Electric Traction Motors, Switching — Electronic and Rotary, Electric Vehicle Technology.

**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.
Exit 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.
Exit 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.
Exit 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

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<td>Entrance Qualifications:</td>
<td>City &amp; Guilds of London Institute 381 Part II or equivalent.</td>
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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.

#### 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.

#### 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.
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: Senior Trade Certificate, Department of Education.

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

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**

**Entrance Qualifications:**

**First Year:** Department of Education Junior Trade Certificate or equivalent and current attendance on block or day release courses.

**Second Year:** City & Guilds of London Institute 205, Part II or equivalent.

**E144A**

**INSPECTION AND QUALITY CONTROL**

This City & 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 careers.

**Course Duration:** One Year (two evenings per week).

**Entrance Qualifications:**

City & Guilds of London Institute 205, Part II or equivalent or suitable background.

**E144B**

**Objective:**

The City & Guilds of London Institute Mechanical Engineering Craft Studies Course No. 205, Part III.

**Quality Control**

The City & Guilds of London Institute Parts I and II, 743 Quality Control Certificate (I.S. 300)

**Course Duration:** One Year (one evening per week).

**Entrance Qualifications:**

Craft, Technician and Supervisory personnel with suitable backgrounds.

**E154**

**AERONAUTICAL ENGINEERING CRAFT STUDIES**

**Stage 1**

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 & Guilds of London Institute Examinations in Aeronautical Engineering Craft Studies (Course 208).

**Entrance Requirements:**

Day Vocational Group Certificate or Intermediate Certificate and be employed in the Aeronautical Engineering Industry.
Craft and Related Courses

Stage II
(Mechanical)
This course is designed to prepare students for Part II of the City & Guilds of London Institute Examination in Aeronautical Engineering Craft Studies (Course No. 208). Mechanical Engineering Classes are held on two evenings per week for one year.

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

Stage III
(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 No. 208). Classes are held on three evenings per week from October to May.

Entrance Requirements: Part II City & Guilds Aero Engineering Craft Studies.
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, Phototypography, 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.
TECHNICIAN CERTIFICATE IN PRINTING/DIPLOMA IN PRINTING MANAGEMENT*

This course is designed to prepare young people for administrative positions in printing and related industries. The course leads to a DIT Certificate award in Printing on its successful completion after two years of study and to a Diploma Award in Printing Management after a further years' 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 are included in the Certificate programme:—

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.
Printer 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
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.

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.
Craft and Related Courses

D199. PHOTOTYPESETTING
This is a part-time course for suitably qualified personnel using a wide range of modern phototypesetting and direct-impression composition equipment.

D200. SCREEN PROCESS PRINTING
The course provides training and education for apprentices to Screen Process Printing. Attendance is on one day per week. The curriculum includes the production of positives for stencil making, production of handcut and photographic stencils, screen preparation and printing, applied science, design and applied printing.

D98. INPLANT PRINTING
A course for Inplant Printing operatives.

Subjects: Offset Printing and Platemaking; Planning, paste-up and camera work; and print finishing.

Entrance Requirements: Employment in the Industry.

Attendance: Two half-days and two evenings per week over two years.

Examination: Reprographic Technique Certificate examination 517 of the City & Guilds of London Institute.
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 Qualifications: Royal Society of Arts Certificate in Accounting and Office Procedure, or equivalent.

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.


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 Qualifications: Department of Education Leaving Certificate or equivalent.
Technician Courses

**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.

**Subjects:**
- Design for Printing

**Objectives of Course:**
- Preparation for the City & Guilds of London Institute examination in Design for Printing.
- Classes are held on two evenings per week.

**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 Photolithography; 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.

**Subjects:**

**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.

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**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.

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**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, glueing, mounting etc.

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**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.

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**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.
Technician Courses

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 up-date the skills of people already employed in Screen Printing.

One evening, 3 hours per week.
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
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James McKenna TEng (CEI) AMIPrOdE
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Department of Aeronautical Engineering
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Department of Metal Fabrication and Plumbing
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Seanus Murran TEng FIP MIP HE

Whole-time Staff
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James T. Gibson BScMech
Gregory Tryaror BE CEng MIEI MCIBSE
AMASHAE

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Assistant Head: J.P. Brian Kennedy BA FTC (C&G) MIOP LCG

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Noel Bright ACC (C&G)

Kenneth Devitt ACC (C&G) APipEd CPipTech
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Vincent O'Leary ACC (C&G)
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Gareth Stokes Des Print (C&G)
Anthony Thursby ACC (C&G)

External Examiners
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Mr. John Henderson FIOP CPhys MinstP FRSA
Mr. James Kirwan
Mr. Don Whitten Cert. in Bus. Management
Mr. J. Blake FTC Design (C&G)
Mr. Mike Brinkworth FTC in Design (C&G)
FRSA CertEd Lon.

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Rev. Dermot McKenna SJ
Rev. Desmond McMahon, CSSp
Sr. Angela Garrahy

School of Trades
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Rev. Gabriel Kinahan OFM

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LIBRARIAN
Peter Cahalane BA DipLibStud

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Secretary/Registrar
Michael J. Marnane BComm DPA MACRA

Accounts Office
Francis Hayden

Examinations Office
Tony Dunne BComm Grad IPM

Registrations/Admissions Office
Brian O'Dowd

Building Maintenance Supervisor
Thomas McGovern
The Social Area which will be a feature of the new College extension.
Location of College shown

1. College of Technology, Bolton Street, Dublin 1. Telephone 727177

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


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 786584