College of Technology, Bolton Street Prospectus 1990-91

City of Dublin Vocational Education Committee
## CALENDAR — SESSION 1990/91

<table>
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<tr>
<th>Year</th>
<th>Term</th>
<th>Date</th>
<th>Event Description</th>
</tr>
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<tr>
<td>1990</td>
<td>Term 1</td>
<td>Monday 3rd</td>
<td>Commencement of Session.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tuesday 4th</td>
<td>Commencement of apprenticeship courses except where otherwise arranged.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Monday 10th</td>
<td>Interviews and enrolments for part-time and evening courses commence except where otherwise arranged.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Monday 17th</td>
<td>Wholetime classes commence except where otherwise arranged.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Monday 24th</td>
<td>Part-time and evening classes commence except where otherwise arranged.</td>
</tr>
<tr>
<td>DEC.</td>
<td></td>
<td>Friday 21st</td>
<td>Final class meetings of first term.</td>
</tr>
<tr>
<td>1991</td>
<td>Term 2</td>
<td>Monday 7th</td>
<td>All classes resume.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Friday 1st</td>
<td>Closing date for all Irish and other EC applications to wholetime courses for 1991/92 session.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tuesday 26th</td>
<td>Final class meetings of second term except where otherwise arranged.</td>
</tr>
<tr>
<td>APRIL</td>
<td></td>
<td>Monday 8th</td>
<td>All classes resume.</td>
</tr>
<tr>
<td>MAY</td>
<td></td>
<td>Monday 13th</td>
<td>Commencement of College Summer Examination programme except where otherwise arranged.</td>
</tr>
<tr>
<td>JUNE</td>
<td></td>
<td>Thursday 20th</td>
<td>All classes terminate except where otherwise arranged.</td>
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### BLOCK RELEASE DATES FOR ENGINEERING APPRENTICES

<table>
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<tr>
<th>Term</th>
<th>Dates</th>
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<tr>
<td>Term 1</td>
<td>1990: Monday 1st October — Friday 14th December</td>
</tr>
<tr>
<td>Term 2</td>
<td>1991: Monday 7th January — Friday 22nd March</td>
</tr>
<tr>
<td>Term 3</td>
<td>1991: Monday 8th April — Thursday 20th June</td>
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Classes will close on public holidays during the session (viz 29th October; 18th March; 3rd June) and on Church Holidays except where otherwise arranged.

**NOTE:** This Calendar is subject to alteration during the Session.
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<td>B103 Planning Technician Certificate</td>
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<td>B110 Property Economics Diploma/Degree</td>
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<td>B111 Construction Economics Diploma/Degree</td>
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<td>B114 Construction Technician Certificate/Diploma</td>
<td>34</td>
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<tr>
<td>B115 Geo-Surveying Technician Certificate/Diploma</td>
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<tr>
<td>B901 Urban Design (Post Graduate)</td>
<td>38</td>
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<td>B116 Auctioneering Valuation &amp; Estate Agency Certificate/Diploma</td>
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<td>B171 Building Maintenance Technician Certificate</td>
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<td>D4A Construction Economics Diploma/Degree</td>
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<td>D5 Architectural Technician Transfer Course</td>
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Vehicle
Body
Repair - Block Release

Light
Vehicle Body Repair - Day Release

Automobile Engineering Technicians

Automobile Engineering Updating Course

Fitting, Turning and Maintenance - Day Release

Fitting, Turning and Maintenance - Off the Job

Fitting, Turning and Maintenance - Block Release

Toolmaking

Welding - Day Release

Short Courses in Welding Processes

Foundry Work - Block Release

Sheetmetal Work - Day Release

Metal Fabrication - Day Release

Metal Fabrication - Off the Job

Plumbing - Day Release

Plumbing - Off the Job

Craft Technician Certificate in Plumbing

Evening Courses

E101 Brickwork

E102 Plasterwork

E104A Colour in Building Work

E104B Design in Building Work

E105 Painting and Decoration

E106 Signwork (Advanced)

E107 Vehicle Body Building

E111 Cabintmaking/Chairmaking

E1 Construction Technician Course

E120 Craft Technician Certificate Course in Building

E121 Carpentry & Joinery - Advanced

E122A Woodcutting Machinists

E122B Woodcutting Machinists

E125 Motor Cycle Mechanics

E128 Construction Plant Fitters

E130 Motor Vehicle Parts Personnel

E133A Motor Vehicle Diagnostic Techniques

E133B Motor Vehicle Compressed Air Systems

E133C Motor Vehicle Electricity/Electronics

E136 Refresher Course for Motor Mechanics

E139 Quality Control

E140 Engineering Systems Maintenance Competences

E141A Basic NC/CNC

E141B Basic CAM/CAD

E141C Basic Robotic Technology

E141D NC/CNC Machine Setting and Operation

E141E NC/CNC Part Programming

E141F NC/CNC Advanced Part Programming

E141G Computer Aider Draughting

E142 Mechanical Engineering Craft Studies with options in Machining, Maintenance, Toolmaking and Inspection

E143A Welding Metal Arc and Oxy Acetylene

E143B Gas Shielded Arc Welding
Institiúid Teicneolaíochta Bhaile Átha Cliath

AN COLÁISTE TEICNEOLAÍOCHTA SRÁID BHOLTÚIN

RÉAMHRÁ

Is cuid 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 teagaisc 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:-

Ailtíreacht, Suirbhéireacht agus Tógálaíocht
Innealtíreacht
Clódóireacht
Cardanna

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

San mbuneolaire seo, tá cur síos ar na cúrsaí éagsúla, na cállochtaí iontrála agus na cállochtaí gur féidir a bhaint amach (teastas, barrántas, comhachtas i gcumainn ghairmiúla nó céim ollscoilse). Tagann na dátaí ó gach cuid den tír, cuid acu ón nGaeilge, cuid eile ón iasacht. Tá súil ag lucht an gColáiste go nglacfaidh na mic léinn páirt gníomhacht i saol an Choláiste.

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

INTRODUCTION TO COLLEGE

Historical Note

In 1887 the first City of Dublin Technical School was established in Kevin Street and from that initiative the present system of schools and colleges developed. The College in Bolton Street was opened in 1911 to provide education in Building, Engineering and Printing, lines of specialisation which have continued down to the present day. The first whole-time day courses commenced in 1920 with the inauguration of an apprentice Scholarship Scheme. With the establishment of an Irish Government, technical education came within the aegis of the Department of Education. A Commission which was established in 1926 made recommendations for developments which led to the Vocational Education Act of 1930. The system of schools and colleges expanded in succeeding decades under the City of Dublin Vocational Education Committee, and the Bolton Street College was enlarged with additional buildings in 1958, 1963, 1981 and 1987. The development of professional and technician courses began in the 1940's and over the years these gained the recognition of professional and academic bodies in Ireland and other countries.
In 1978 the Dublin Institute of Technology was established by the Vocational Education Committee to co-ordinate the work of its six colleges. Bolton Street is the largest of the colleges; the other constituent Colleges are the College of Technology Kevin Street, the College of Commerce, the Dublin College of Catering, the College of Music and the College of Marketing and Design. Its work and awards have attained wide national and international recognition from academic and professional bodies and other appropriate employer organisations.

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

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

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

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

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

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

Recent College Developments

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

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

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

A view of the College's new Auditorium.
APPLICATION PROCEDURES FOR 1990 ENTRY

(a) DEGREE LEVEL COURSES IN CAO 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).

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<th>College Course Code</th>
<th>CAO Course Code</th>
<th>Course Description</th>
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<tbody>
<tr>
<td>B101</td>
<td>FT01</td>
<td>Architecture</td>
</tr>
<tr>
<td>B110</td>
<td>FT03</td>
<td>Property Economics</td>
</tr>
<tr>
<td>B111</td>
<td>FT02</td>
<td>Construction Economics</td>
</tr>
<tr>
<td>*B121</td>
<td>FT04</td>
<td>Building Services Engineering</td>
</tr>
<tr>
<td>*B122</td>
<td></td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>*B123</td>
<td></td>
<td>Production Engineering</td>
</tr>
<tr>
<td>*B124</td>
<td></td>
<td>Structural Engineering</td>
</tr>
</tbody>
</table>

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

Applicants for any of the degree level course in the CAO scheme were made directly to:

The Central Applications Office,
Tower House,
Eglinton Street,
Galway,
Tel: (091) 63318/63269.
Fax: (091) 62344.
Telex: 50061 CAO EI.

(b) TECHNICIAN AND OTHER WHOLETIME COURSES

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

<table>
<thead>
<tr>
<th>College Course Code</th>
<th>Course Description</th>
<th>Course Duration (Years)</th>
</tr>
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<tbody>
<tr>
<td>**B102</td>
<td>Architectural Technician Diploma</td>
<td>3</td>
</tr>
<tr>
<td>**B114</td>
<td>Construction Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td>**B115</td>
<td>Geo-Surveying Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td>**B116</td>
<td>Auctioneering Valuation &amp; Estate Agency Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td>B120</td>
<td>Preliminary Engineering</td>
<td>1</td>
</tr>
<tr>
<td>**B126</td>
<td>Civil Engineering Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td>**B127</td>
<td>Building Services Engineering Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td>**B128</td>
<td>Mechanical Engineering Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td>**B130</td>
<td>Printing Technician Certificate/Diploma in Printing Management</td>
<td>2/3</td>
</tr>
<tr>
<td>**B131</td>
<td>Graphic Reproduction Technology Diploma</td>
<td>1</td>
</tr>
<tr>
<td>**B171</td>
<td>Buildings Maintenance Technician Certificate</td>
<td>2</td>
</tr>
</tbody>
</table>

*ESF Grants may be available to students pursuing each of these courses.

The DIT APPLICATION Procedure is divided into two parts:

Part 1
This involved the submission of a completed Part 1 DIT application form accompanied by Section A of a BDI BANK Giro duly stamped to certify that the appropriate application fee had been lodged. This was sent to:

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

which is responsible for the initial processing of all applications for admission to wholetime courses.

Part 2
Applicants other than transferees and mature applications were sent the Part 2 of the DIT application form to the permanent home address given on their Part 1 DIT application forms during the last week of July 1990.

The date by which the Part 2 DIT application form had to be returned to the Institute was clearly shown on it when issued.
This enabled applicants who wished to change the order of and/or replace any or all of their original course preferences in the light of their 1990 school leaving examinations or new career plans. This facility was not, however, available in the case of some courses for which aptitude test/interview/portfolio assessments had already been held as indicated on the Part 2 applications form.

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

The return of the Part 2 DIT application form was specified as an essential part of the application procedure. Candidates not returning it to the DIT Admissions Office by the specified closing date could not be considered further by the Institute as their applications were deemed to have lapsed.

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

Method of Application for 1990 Admissions

(c) PART-TIME DAY AND EVENING COURSES

It is not necessary to make written application for admission to part-time and evening courses in advance of the enrolment date for courses.

Enrolment is scheduled to commence on 10th September 1990, and intending applicants should report in person to the college during the scheduled enrolment hours from 6.30 p.m. to 8.30 p.m.

SELECTION PROCEDURES — 1990

Applicants are placed in order of educational score merit in accordance with the points system shown below, allocated to the 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. Obligatory subjects are scored together with the best three or four other subjects as appropriate in determining the overall score. Generally demand exceeds the number of places available and qualifications above the minimum are required.

(i) In the case of the Architectural courses (i.e. FT01/B101 and B102) applicants were required to take a suitability test and this was used in determining which applicants

ENHANCED POINTS WEIGHTINGS

In evaluating educational scores for the Engineering Degree Courses (FT04) the following points are awarded to grades A to C on their Higher Leaving Certificate paper in Mathematics are A — 14, B — 12, C — 10. Similarly the points awarded to grades A to C on the Higher Leaving Certificate papers in Physics, Chemistry, Physics with Chemistry, Applied Mathematics and Engineering are: A — 11, B — 9, C — 7. No additional weighting is applied to Ordinary Level Leaving Certificate or Matriculation Grades.

In evaluating educational scores for the Engineering Technician Courses B126, B127 and B128 and Course B120 enhanced points are awarded to Mathematics and a number of other subjects of special relevance* (viz Physics, Chemistry, Physics with Chemistry,
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 degree level courses are required to have the G.C.E. with passes in six subjects including at least two good Advanced Level subjects or equivalent.

Overseas applicants must satisfy the College as to their proficiency in written and spoken English. Grades A, B and C in the GCE Advanced Level meet the higher level paper requirements for degree level courses. Grades D and E in the GCE Advanced Level or Grades A, B and C in the Ordinary Level GCE are regarded as equivalent to ordinary Leaving Certificate passes.

No application will be accepted from overseas applicants for admission to part-time or evening courses unless the applicant is already resident in Ireland.

**SPECIAL CATEGORIES OF APPLICANTS**

The following types of applicants are treated as special cases and are processed separately from the main stream of candidates. All such applicants should apply using the standard application form available on request. When returning this form an applicant should indicate clearly that he/she wishes to be considered as a special case and include all documentary evidence available, including examination results, in support of the 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 specified 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 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 a small quota of places reserved for those who are sponsored by official agencies linked to Ireland's development aid programme.

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**Leaving Certificate or Matric**

<table>
<thead>
<tr>
<th>Leaving Certificate</th>
<th>NUI Matric</th>
<th>Leaving Certificate or Matric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Higher</td>
<td>Ordinary</td>
<td>Maths</td>
</tr>
<tr>
<td>A</td>
<td>—</td>
<td>14</td>
</tr>
<tr>
<td>B</td>
<td>—</td>
<td>11</td>
</tr>
<tr>
<td>C</td>
<td>—</td>
<td>9</td>
</tr>
<tr>
<td>D</td>
<td>—</td>
<td>8</td>
</tr>
<tr>
<td>—</td>
<td>A</td>
<td>6</td>
</tr>
<tr>
<td>—</td>
<td>B</td>
<td>5</td>
</tr>
<tr>
<td>—</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>—</td>
<td>D</td>
<td>2</td>
</tr>
</tbody>
</table>
APPLICANTS SEEKING EXEMPTIONS FROM ONE OR MORE YEARS OF A COURSE OR DIRECT ENTRY AT A MORE ADVANCED LEVEL (e.g. DIPLOMA STAGE)

Such applicants should in the first instance make direct contact with the College and request the special application form and any other relevant information required. They should then ask their present and/or former College to forward in confidence to the Admissions Office, a full transcript of attainments which it is envisaged will justify the exemptions sought. The application will not be processed until this and any other relevant support documentation is received.

RESTRICTIONS ON ADMISSION TO TRADE/CRAFT COURSES

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

Accordingly the College reserves the right to restrict enrolment in the trade practical classes to those persons who are actually employed in the several processes and operations of the trade. For admission to these classes proof of actual employment in the several processes and operations of the trade will be certificates to that effect from the Masters Association, the official Trade Unions of the trade concerned or FAS. 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 the 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 FAS – National Manpower Authority – whether or not the apprentices are registered with the body.

APPLICATION AND SELECTION PROCEDURES FOR 1991 ENTRY

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

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

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

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

(a) up to ten courses in order of preference from the courses included under the title ‘CAO List’ in the CAO/CAS handbook (which includes all DIT Degree courses).

(b) up to three courses in order of preference from the courses included under the title ‘CAS List 1-RTC Degrees’ in the CAO/CAS handbook.

(c) up to ten courses in order of preference from the courses included under the title ‘CAS List 2-Diploma/Certificate/Others’. This includes all the DIT and other technological colleges’ Certificate, Diploma and non degree courses.

The joint CAO/CAS applications system will be administered from the CAOs premises at Tower House, Eglington Street, Galway. Copies of the CAO/CAS Handbook which provides all relevant information about the CAO/CAS joint application system and the courses which are included in it are available on request from this address as are Application Forms.
APPLICATION FEES IN 1991
Irish and other EC Applicants (ordinary fee) £18
Late applications (received between 2 February and 31 March) £26
Late applications (received after 31 March) £40
Overseas applicants (ordinary fee) £36

SCHEDULED CLOSING DATES FOR RECEIPT OF APPLICATIONS FOR 1991 ADMISSIONS:
Irish and other EC Applicants 1 February 1991
Overseas Applicants 15 December 1990

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

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

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

POSTPONEMENT OF COURSE CHOICE AND CHANGE OF MIND FACILITIES

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

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

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

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

CAO/CAS,
Tower House,
Eglinton Street,
Galway.
Tel: 091 63318/63269
Fax: 091 62344
Telex: 50061 CAO E1

COLLEGE DEGREE LEVEL COURSES IN CAO LIST

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

<table>
<thead>
<tr>
<th>College Course Code</th>
<th>CAO Course Code</th>
<th>Course Description</th>
<th>Course Duration (Years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B101</td>
<td>FTO1 ARCHGDEG</td>
<td>Architecture</td>
<td>5</td>
</tr>
<tr>
<td>B110</td>
<td>FTO3 EECNDEG</td>
<td>Property Economics</td>
<td>4</td>
</tr>
<tr>
<td>B111</td>
<td>FTO2 ECNDEG</td>
<td>Construction Economics</td>
<td>4</td>
</tr>
<tr>
<td>*B121</td>
<td></td>
<td>Building Services Eng.</td>
<td>4</td>
</tr>
<tr>
<td>*B122</td>
<td></td>
<td>Mechanical Engineering</td>
<td>4</td>
</tr>
<tr>
<td>*B123</td>
<td></td>
<td>Production Engineering</td>
<td>4</td>
</tr>
<tr>
<td>*B124</td>
<td></td>
<td>Structural Engineering</td>
<td>4</td>
</tr>
</tbody>
</table>

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

COLLEGE CERTIFICATE/DIPLOMA AND OTHER COURSES IN CAS LIST 2

<table>
<thead>
<tr>
<th>College Course Code</th>
<th>CAS Course Code</th>
<th>Course Description</th>
<th>Course Duration (Years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>*B102</td>
<td>DT01</td>
<td>Architectural Technician Diploma</td>
<td>3</td>
</tr>
<tr>
<td>*B114</td>
<td>DT02</td>
<td>Construction Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td>*B115</td>
<td>DT03</td>
<td>Geo-Surveying Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td>*B116</td>
<td>DT04</td>
<td>Auctioning/Valuation &amp; Estate Agency Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td>B120</td>
<td>DT45</td>
<td>Preliminary Engineering Certificate/Diploma</td>
<td>1</td>
</tr>
<tr>
<td>*D126</td>
<td>DT41</td>
<td>Civil Engineering Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td>*B127</td>
<td>DT42</td>
<td>Building Services Engineering Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td>*B128</td>
<td>DT44</td>
<td>Mechanical Engineering Technician Certificate/Diploma</td>
<td>2/3</td>
</tr>
<tr>
<td>*B130</td>
<td>DT13</td>
<td>Printing Technician Certificate/Diploma in Printing Management</td>
<td>2/3</td>
</tr>
<tr>
<td>*B171</td>
<td>DT05</td>
<td>Buildings Maintenance Technician Certificate</td>
<td>2</td>
</tr>
</tbody>
</table>

**ESF Grants may be available for students pursuing these courses.
ASSESSMENT OF APPLICANTS AND OFFERS OF PLACES IN 1991

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

The Points system(s) to be used in assessing candidates in 1991 remain(s) to be finalised at the time of going to press for this publication. A few indicators may be given however at this stage: the candidates results for the best six subjects in the Leaving Certificate (or other approved senior school examination) are likely to be counted for ranking purposes for all courses; the DIT Colleges will no longer accept the NUI Matriculation as an appropriate entry examination standard for their courses.

Further details of the Points system and selection procedures will be issued to Schools, Career Guidance Counsellors and the Press when they are finalised.

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

FEES, GRANTS AND SCHOLARSHIPS

Fees are payable before commencing attendance at classes and are not refundable except where a class or course does not form. An enrolment is not transferable from one student to another. The sole proof of enrolment in any class or course in the College is the official receipt for the class or course fee paid. The official receipt must be presented on first attendance at each class. Fees quoted for wholetime courses (marked +) include a College examination entry fee.

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).

All Course and Examination Fees quoted are subject to revision.

FEES PER ACADEMIC YEAR

(a) Irish and European Community Students

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Course Codes</th>
<th>Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wholetime Diploma</td>
<td>B101; B121; B122; B123; B124; B125</td>
<td>£942</td>
</tr>
<tr>
<td>Degree</td>
<td>B110; B111</td>
<td>£754</td>
</tr>
<tr>
<td>Wholetime Technician</td>
<td>B114; B115; B116; B120; B126; B128; B130; B150; B160; B171</td>
<td>£472</td>
</tr>
<tr>
<td>Certificate</td>
<td>B150</td>
<td>£497</td>
</tr>
<tr>
<td>Part-time</td>
<td>D28; D41; D43C; D43M; D43V; D47; D120; D134; D152</td>
<td>£185</td>
</tr>
<tr>
<td>Evening Courses</td>
<td>E71; E72; E141F; E141G; Other Evening Courses</td>
<td>£200</td>
</tr>
<tr>
<td>Post-graduate</td>
<td>D4A</td>
<td>£497</td>
</tr>
<tr>
<td>and Other</td>
<td>D6</td>
<td>£950</td>
</tr>
<tr>
<td>Courses</td>
<td>E6; E7</td>
<td>£500</td>
</tr>
</tbody>
</table>

(b) Overseas Students from Non-European Community Countries

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Wholetime</td>
<td>£2,100</td>
</tr>
</tbody>
</table>

*Includes College examination fees — NCEA examination fees are extra where applicable.
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 and who do not benefit from ESF Training Grants 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 over 16 years while they are pursuing certain two or three year courses provided their attendance record and general performance is satisfactory. These grants cover tuition fees and also provide for payment of a monthly allowance. The courses which are expected to be included in the scheme in the 1990/91 session are marked by a double asterisk (**) in the Table on page 5.

(d) Ivan Webb Scholarships: The Construction Industry Federation and the Master Builders Association have established a scholarship fund to commemorate the late Ivan Webb, a former Council member of both bodies, who was killed in the Stansted air disaster. The object of the scholarship fund is to assist students in pursuing their course of study. The scholarships apply to full-time and part-time Construction Technician Courses in the College and are awarded on the following basis: One scholarship valued at £500 to the student attaining the highest place in the results of the year's work and examinations in the first year of the full-time course. Two scholarships valued at £250 each to the two students attaining the highest places of the year's work and examinations in the second year of the part-time course.

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

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

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

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

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

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

Before acceptance of an application for admission to some courses applicants may be required to attend for an assessment or interview. The College may also require an applicant to sit an aptitude or other test. Enquiries about Admission and Enrolment should be directed to the College Registrations Office.

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 present the following documentation:

(a) CAO or DIT offer notice showing bank stamp.

(b) Three copies of a recent passport type photograph signed on the back.

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 and a late registration fee of £35 may be charged in addition to the normal fee at the discretion of the College.

All students are required to have a current College Identity Card. Students who were enrolled in the College in a previous session must surrender their outdated Identity Card before a new one is 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. A charge of £3 will be made for the replacement of a College Identity Card during the session and new photographs will be required. Change of address or place of employment should be reported to the Registration Department immediately.

Change of classes of courses may be made only through the College Registration Office with the consent and approval of the Head of Department.

EXAMINATIONS AND AWARDS

The College conducts its own examinations for a number of its professional and technician courses. These are moderated by external examiners and lead to College/DIT 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 £28.00 is payable in respect of College Sessional examinations and in the case of college supplemental examinations a further fee of £28.00 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, may be refused permission to sit College examinations.

Closing Dates

The closing dates each year for receipt of College examination entry forms and fees are 31st January for the Summer or Sessional examinations and 31st July for the Autumn examinations. 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 £28.00. No applications will be considered if received later than 1st March for Summer examinations or 15th August for Autumn examinations.

Promotion Requirements

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 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) for assessment before graduation or promotion to the next year of the course, must re-enter for the next 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 assessments at the end of the session.

A laboratory notebook must be maintained by each student for laboratory classes. An assessment will be made at the end of the session of each student’s progress in laboratory and experimental work which may form part of the sessional examination in that subject.
Candidates will be admitted to the Examination Room only on production of the Identity Card issued by the College in addition to the appropriate admission letter which is issued when and if an application to sit the examination is approved by the College.

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

Students seeking a re-check of a college examination result should submit a written request, within one week of the posting of provisional results, specifying the grounds on which the request is made. A charge of £5.00 per subject is payable.

Students wishing to appeal against a college 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 £23.00 and be submitted to the Principal or Examinations Secretary. The College accepts requests for re-checks and appeals on the understanding that it may not be in a position to inform the student of the outcome prior to the date for entry or for sitting a Supplemental Examination.

The NCEA was established by the Government in 1972 and awards appropriate qualifications to students who successfully complete courses of study which it has approved. Students pursuing a number of college 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 £40.00, Certificate stage £40.00 and Diploma Stage £52.00. 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. They are required to make application for them to the University by completing appropriate documentation and paying the specified commencement fees. Details relating to the awards are given under the individual course entries.

The college is a centre for a number of external examinations including those of 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 relation to 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 these 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 supply all appropriate documentation that may be required.
4. The College staff will give advice and assistance in the above matters where requested.

GENERAL REGULATIONS AND INFORMATION

1. 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 which are reproduced as an appendix in this prospectus together with more specific College regulations.

2. 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.

3. In compliance with governmental regulations students are not permitted to smoke in the College except in an area designated for this purpose in the College restaurant.

4. 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.

5. Students may use the facilities of the College, including the Gymnasium, on the understanding that they do so at their own risk. Though reasonable care is taken the College does not accept liability for property lost, stolen or damaged on the College premises or grounds. All members of the College community and visitors are advised to exercise great care and vigilance in relation to their property.

6. Locker accommodation is available for a 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 allocated and any in any event before the end of the academic session.
COLLEGE OPENING HOURS & FACILITIES

The College is normally open from 8am to 10pm Monday - Thursday, 8am - 5.30 pm on Fridays and 8 am - 1 pm on Saturdays during the academic session. These hours may be extended during examination or other periods. It is normally closed on Bank holidays and closes at 5.30 pm when classes are not in session.

Office Open
Hours: 9.00 a.m. to 12.45 p.m. 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 academic staff will not be available for interviews or consultations except by prior appointment.

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

Class Schedules
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 any 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.

Restaurant Facilities
The College Restaurant is open throughout the session for lunches and teas as well as morning and afternoon snacks.

First Aid Service
A First Aid service is provided during the session in cooperation with the Order of Malta.

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

Banking Facilities
The College has a part-time banking facility on campus in cooperation with Bank of Ireland.

The College Library
The College Library has seats for more than 400 readers, and is open for about 60 hours per week over six days a week during term time. Most of the collection is on open access to readers. The Library while a single unit, has four main areas viz the lending collection; the reference section; the journals area and the reserve collection. The latter comprises of key texts, reports, theses, examination papers and special materials, all of which are for use on site only. All students of the College may use the Library, and may borrow books once they have become members of it.

Collections of slides, videos and sound tapes are available for use in the Library. Library equipment available includes photocopiers, microfiche readers and information services, a microfiche printer, a microfilm printer, VCRs and monitors, tape slide viewers and a CD-ROM drive. A book security system is also in operation.

The Library book and journal collections support the courses taught in the College and relevant indexes, abstracts and services facilitate study and research in the relevant areas. Close links are maintained with the City of Dublin Public Library System, local Universities and, of course, our sister Colleges in the DIT. Through these links and other co-operative arrangements photocopied materials and interlibrary loans may be obtained. Access for staff and senior citizens to other libraries for the purposes of research can also be arranged through the Librarian. Introductory talks on the use of the Library and its resources will be provided for any interested group by appointment.

Hours of Opening
Term Time - Monday - Thursday 9.30 am - 9.30 pm
Friday 9.30 am - 5.30 pm
Saturday * 9.30 am - 1.00 pm
* During exam periods open to 5.00 on Saturday.
Vacation periods Monday - Friday 9.30 am - 5.30 pm.

College Computing Facilities
The Computing facilities of the College involve both centralised and local resources. The centralised facilities are currently based on a VAX cluster of an 8600 and 8350 which are housed in the DIT Computing Centre at 14 Upper Mount Street. These are networked with the facilities of the individual DIT Colleges over leased Bord Telecom lines. The College of Technology in Bolton Street, has a Dec System 5400 multi-user system and extensive microcomputing facilities including North Star, Wang and NCR networks as well as significant numbers of IBM, Compaq, Wyse and Prompt standalone units. The College also has a ten unit Apple Desk Top Publishing system, an Advanced Manufacturing Laboratory and other specialised computer based equipment.
STUDENTS UNION

The Student Union is the student’s representative body in the College. It promotes the Social and Organisational side of student life and sees after the interest of students in the College. Every student becomes a member of the union on enrolment. The union is democratically based and it is dependent for its effectiveness on student participation. It is affiliated to the Union of Students in Ireland.

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 who are responsible for the overall co-ordination of union policy in addition to the day to day running of the Union. The Deputy President has specific responsibility for welfare, sports clubs and course related matters. Each class elects its own representative who acts 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.

Full time Officers for 1990/1991 session
President: Gary Croke
Deputy President: Rodni Maguire

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, Restaurant Committee and other bodies.

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’s activities centre around the social area and 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.

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

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

The Students 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-ordinates of relevant activities in each College and between Colleges. They are responsible for the disbursement of funds to designate 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 having members of staff who are employees of that company.

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

There are some 40 clubs and societies in the College and all are anxious to recruit new members. Most of them are very active and cater for a wide range of interests.

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

Societies
Anti-Apartheid
Architectural Students Association (ASA)
Auctioneers and Valuers
Ballad Appreciation
Business
Cál'aideas
Construction Technician
Country Brew
Christian
Engineering Technician
Film
Geo Surveying
Green Society
Motor Industry Management
Printing
Property Economics
Quantity Surveyors
Students Against Destruction of Dublin (SADD)
Student Engineers (SSE)
Third World
ARCHITECTURE, SURVEYING AND BUILDING

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 estate 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.

TECHNOLOGICAL AND TECHNICIAN COURSES — WHOLETIME

B101

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

The minimum educational qualification required for entry is 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 post graduate experience they may take the Institute’s examination in Professional Competence and thus become Members of the RIAI. Success in the third year of the Diploma in Architecture Course gives exemption from the Intermediate Examinations of the RIAI.

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

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

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

Dept. in Charge
Architecture & Town Planning

B102
ARCHITECTURAL TECHNICIAN DIPLOMA

CAS Course Code DT01

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

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.

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 postgraduate experience.

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

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

Dept. in Charge
Architecture & Town Planning

B110
PROPERTY ECONOMICS — DIPLOMA/DEGREE

CAO Course Code FT03

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

**Entrance Requirements**

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

**First Year**

Course of Study

**Second Year**

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

**Third Year**

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

**Fourth Year**

Valuations, Urban Economics, Planning, Taxation. In the fourth year each student prepares a major dissertation as part of the Final Examination.

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

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

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

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

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

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

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

**B111 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 qualification required for entry is the Irish Leaving Certificate with passes in six subjects, at least two of which must be at Grade C or higher in the higher level course or equivalent qualifications. The six subjects must include Mathematics and English.

**First Year**

Course of Study

**Second Year**


**Third Year**


**Fourth Year**

Building Economics, Construction Administration & Management, Measurement.

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

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

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

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

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

Dept. in Charge Surveying & Building Technology.

B114

CONSTRUCTION TECHNICIAN CERTIFICATE/DIPLOMA

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
Builders Accounts, Building Materials & Environmental Science, Mathematics, Construction Technology I, Site Surveying I, Quantity Surveying I.

Second Year

Third Year

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

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

Holders of the Diploma are entitled to Membership Part I of the Chartered Institute of Building following two years experience in building practice.

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

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

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

Dept. in Charge Surveying & Building Technology.
GEO-SURVEYING TECHNICIAN CERTIFICATE/DIPLOMA

This wholtime course prepares students for a Technician Certificate award in Geo-Surveying after two years and a Technician Diploma award on completion of an additional year.

There is a good balance between the theoretical and practical aspects of Geo-Surveying thereby ensuring a sound understanding of the applications of its technology. Project work is a significant feature of the course and is an important element in the overall assessment.

Entrance Requirements

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

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

Course of Study

First Year

Second Year (Certificate Stage)

Third Year (Diploma Stage)

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

Awards

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

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

Career Opportunities

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

The work can be very varied due to the variety of survey sites requiring different techniques and equipment but generally the work involves the preparation of a plan for a development or the setting out of a design on the ground for construction. The Geo-Surveyor should have a preference for an outdoor life and an ability to co-operate and work in a team with other specialists. Sophisticated optical and electronic instruments are commonly used in conjunction with computers and micro-processors in Geo-Surveying and some specialise in these.

Dept in Charge Surveying and Building Technology
Commencement of course is subject to additional accommodation and finance being available to the College.

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

**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.

**B116**
**AUCTIONEERING VALUATION AND ESTATE AGENCY CERTIFICATE/DIPLOMA COURSE**
This course has been developed to prepare students for a Certificate Award in Auctioneering, Valuation and Estate Agency after two years of wholetime study. Those who achieve a good standard in the Certificate may proceed to a Diploma award after a period of suitable employment. They are required to undertake a prescribed course of study and course assignments as well as a dissertation on an appropriate topic.

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

**Course of Study**
- First Year: Valuations, Quantitative Methods, Economics, Law, Complementary Studies, Building Construction, Financial Management.
- Third Year: Enter into suitable employment at the end of the Second Year after which they return to the College to undertake a prescribed course of study, carry out assignments and complete a dissertation on an appropriate topic as well as the end of session examinations.

**Awards**
Students who successfully complete the course are eligible for the following awards:
(a) Certificate in Auctioneering and Estate Agency (after two years) and Diploma in Auctioneering Valuation and Estate Agency (after a further year) (Dublin Institute of Technology)
(b) National Certificate in Business Studies, (Auctioneering, Valuations and Estate Agency) (after two years) and National Diploma in Business Studies, (Auctioneering, Valuations and Estate Agency) (after further year) (National Council for Educational Awards)

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

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

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

**Dept in Charge**
Surveying & Building Technology

**B171**
**BUILDINGS MAINTENANCE TECHNICIAN CERTIFICATE COURSE**
This two-year wholetime course has been developed to prepare students for a Technician Certificate award in Buildings Maintenance. The programme extends over the full academic session from September to June. The course has a good balance between theoretical and practical aspects and participants are given an appreciation of a range of construction skills. Students are encouraged to spend the summer vacation gaining practical work experience in the areas of Buildings Maintenance and Inspection Building Supplies, Technical Sales and related activities.

**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.
TECHNOLOGICAL AND TECHNICIAN COURSES
PART-TIME

CONSTRUCTION TECHNICIAN DIPLOMA PART-TIME

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

(a) The secondary schools Leaving Certificate in at least five subjects including Mathematics or the Matriculation Certificate of a recognised University or the General Certificate of Education.
(b) Appropriate employment in the Construction Industry.

Dept. in Charge Surveying and Building Technology.

DIPLOMA/DEGREE IN CONSTRUCTION ECONOMICS
PART-TIME

This day release course is similar to the wholetime Diploma course and leads to the award of a Diploma/Degree in Construction Economics. Classes are scheduled on one day and two evening per week over a period of six years. The academic entry qualifications to the First Year of the course are similar to B111. 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 & Building Technology.

ARCHITECTURAL TECHNICIAN TRANSFER COURSE

This is a course for Technician members of the Royal Institute of the Architects of Ireland who wish to transfer from Architectural Technician Class of the RIAI to the study of Architecture via the RIAI examination system. Success in the course will give exemption from the Intermediate Examinations of the Institute.

The course extends over one year (26 weeks) and is intended to operate only every third year. Selection of students is made by the Royal Institute of the Architects of Ireland to whom application should be made in the first instance. It may be repeated in the 1990/91 session if the demand justifies it.
Subjects of the course are Theory of Architecture; History of Architecture; Urban Studies; and Architectural Design.

Entry Qualifications
Technician Membership of the RIAI and selection by the RIAI.

Dept. in Charge Architecture & Town Planning.

D9 SHORT COURSES
Short Courses in Building, Project Management, Computer Applications and for First-Time House Purchasers may be held during the session. Enquiries relating to these will be welcomed by the Department of Surveying and Building Technology.

Dept. in Charge Surveying and Building Technology.

ARCHITECTURE, SURVEYING & BUILDING — EVENING COURSES

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

Entry Qualifications

Dept. in Charge Surveying and Building Technology.

E5 GRADUATE DIPLOMA IN ARBITRATION LAW
The objectives of this one year part-time course are to provide participants with a better knowledge of the law and arbitration including the Arbitration Acts of 1954 and 1980. It has been developed at the request of and in co-operation with the Irish Branch of the Chartered Institute of Arbitrators.

Entrance Requirements
Relevant professional qualification (e.g. Law, Engineering, Architecture, Surveying, Accountancy, Insurance etc.) with exemptions from modules (a) and (b) for practising lawyers and those with a recognised law degree. Exceptionally, applications will be accepted from unqualified students who have appropriate training or experience. Selection will be subject to interview.

Course of Study
The course comprises three modules (a) Legal Principles, Civil Procedure & Evidence (b) Contract & Tort and (c) Arbitration Law & Procedure, Alternative Methods of Dispute Resolution.

Examinations & Awards
On successful completion of examinations students will be awarded the Dublin Institute of Technology Graduate Diploma in Arbitration Law. It is intended to seek exemption for holders of this Diploma from Parts I and II of the examinations of the Chartered Institute of Arbitrators.

Dept. in Charge Surveying & Building Technology

E6 GRADUATE DIPLOMA IN INTERNATIONAL ARBITRATION LAW
The objectives of this one year part-time course are to provide a better knowledge of the practice of international arbitration,
GRADUATE DIPLOMA IN LAND USE ECONOMICS

The objective of this part-time post-graduate course, which extends over one academic year and one term of the succeeding year, is to meet the educational requirements for practice as a Planning and Development Surveyor.

Entrance Requirements

(1) (a) a recognised professional qualification in the fields of Planning, Architecture, Surveying, Engineering, Law, Accountancy or
(b) an Honours Degree in an appropriate discipline viz. Surveying, Economics, Law, Geography, Business Studies.
(2) Employment in or evidence of appropriate post-certification work experience in the Built Environment field.

Course of Study

The course consists of two parts:


Part II consists of one integrated subject area containing a number of elements under the general title 'Planning and Development Policies, Practice and Procedures'.

Examinations & Awards

Part I examinations in the subjects listed above will be held at the end of Year 1. Part II examinations will be held and a major planning and development case study is required to be submitted at the end of the first term in Year II.

On successful completion of the course, students are expected to qualify for the award of a Dublin Institute of Technology Graduate Diploma in International Arbitration Law.

Dept. in Charge Surveying & 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.
ENGINEERING
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**

**B120**

**PRELIMINARY ENGINEERING**

**CAS Course code DT45**

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

**Entrance Requirements**

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

**Course of Study**

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

**Examinations and Other Requirements**

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

**Admission into Professional Engineering Courses**

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

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

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

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

Course of Study

Entrance Requirements

First Year

Second Year

Third Year
Mathematics and Computing, Environmental Engineering, Control Engineering, Electrotechnology, Lighting and Acoustics, Fluids and Thermodynamics, Building Services Design, Management Studies, Workshop and Laboratory Work. A major project is also undertaken.

Fourth Year

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

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

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

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

Dept. in Charge Engineering Technology

MECHANICAL ENGINEERING -- DIPLOMA/DEGREE

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

Entrance Requirements

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

Course of Study

First Year

Second Year

Third Year

Fourth Year

Awards

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

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

Career Opportunities

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

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

Dept. in Charge Engineering Technology

B123 PRODUCTION ENGINEERING — DIPLOMA/DEGREE

CAO Course Code: FT04

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

Entrance Requirements

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

Course of Study

First Year

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.

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

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

Dept. in Charge Engineering Technology

B124
CAO Course Code FT04

STRUCTURAL ENGINEERING DIPLOMA/DEGREE

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

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
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 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 and a Science subject (preferably Physics), English and two other subjects or equivalent qualifications.

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

Course of Study

First Year

Second Year (Certificate Stage)
Structural Design and Detailing, Mathematics, Concrete, Geology and Soil Mechanics, Surveying, Construction Services and Supplies, Planning and Administration, Complementary Studies Laboratory Work.

Third Year (Diploma Stage)

Examination and Other Requirements

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

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

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

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

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

DEPARTMENT IN CHARGE ENGINEERING TECHNOLOGY

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

**Entrance Requirements**

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

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

**Course of Study**

*First Year*  

*Second Year*  

*Third Year*  

**Examination and Other Requirements**

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

**Awards**

Graduates of this course are eligible for the following awards:  
(a) Technician Certificate/Diploma in 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**

This qualification is appropriate to those wishing to enter engineering as a technician specialising in Environmental/Building Services Engineering. Environmental/Building Services Engineers are involved in 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.
Students who hold a Pass Certificate and at least one year of appropriate post-Certificate experience may also be considered. The Diploma stage is specialised. At present two options are offered — Manufacturing Technology or Process Plant.

**Course of Study**

**First Year**

**Second Year**

**Third Year**

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

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

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

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

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

*Dept. in Charge Engineering Technology.*
B150

TECHNICIAN CERTIFICATE IN TRANSPORT ENGINEERING/
DIPLOMA IN MOTOR INDUSTRY MANAGEMENT

CAS Course Code DT46

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

Entrance Requirements

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

Course of Study

First Year

Second Year

Third Year

Examination and Other Requirements

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

Awards

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

Graduates holding the Diploma are eligible for full exemptions from the Certificate of Management examination requirement of the Institute of Motor Industry and for subject exemptions from the examinations of the Institute of Road Transport Engineers.

Career Opportunities

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

Dept in Charge Automobile Engineering

B160

AIRCRAFT TECHNICIANS’ COURSE

This two year sandwich course aims to train aircraft apprentices and those already employed in the Aeronautical Engineering Industry as Aircraft Technicians in preparation for ICAO Maintenance Engineers’ Licence issued by the Department of Tourism & Transport. 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 or Day Group Certificate in suitable subjects; and
(b) Employment in an Aeronautical Engineering environment.

Course of Study


Examination and Other Requirements

Students are required to pass examinations as follows:
(a) At the end of the year — the Department of Education Junior Trade Certificates and Elementary Technological Examinations in Mechanical Engineering; and City and Guilds of London Institute Aeronautical Engineering Competences.
(b) At the end of the second year — The Department of Education Senior Trades, and City and Guilds of London Institute Aeronautical Engineering, Occupational Competences Part II and Aeronautical Engineering Technician’s Certificate Part I.

Dept in Charge Aeronautical Engineering.
TECHNOLOGICAL AND TECHNICIANS COURSES
PART-TIME

D41

GRADUATE COURSES 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 this course. It parallels course B126 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.


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 one year's suitable experience together with a Pass Certificate. (Municipal Option): Mathematics, Road Engineering, Management Studies, Planning and Building Regulations, Hydraulics and Sanitary Services, Design and a Project. (Structural Option): Mathematics, Management Studies, Theory of Structures, Structural Design (Concrete), Structural Design (Steel), Municipal Engineering and a Project.

Examinations and Other Requirements
At the end of each session students take a College examination which is moderated by the National Council for Educational Awards and the Dublin Institute of Technology.

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

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 B128 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 Years (Certificate Stage): At this stage three options are offered: Mechanical, Welding and Fluid Power. Common Subjects: Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, and Complementary Studies.


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. Subjects: Mathematics, Mechanics, Complementary Studies, Electrotechnology and Electronics, Control Engineering, Industrial Instrumentation, Design, and Project Work.
Candidates are required to have passed the Certificate Stage with Credit (Merit) or to have at least one year's suitable experience together with a Pass Certificate.

At the end of each session students take a College examination which is moderated by the National Council for Educational Awards and the Dublin Institute of Technology.

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

BUILDING SERVICES ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This part-time day and evening course prepares students for a Technician Certificate/Diploma in Building Services Engineering. Students are expected to be already suitably employed in Building Services Engineering before commencing the course. It parallels Course B127 and follows the same core 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 Subjects: Mathematics, Mechanics, Engineering Science, Drawing, Instrumentation, Building Construction and Services and Complementary Studies.

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): Mathematics, Management Studies, Electrotechnology and Controls, Lighting and Acoustics, Environmental Engineering, Air Conditioning and Refrigeration, Heating and Combustion and a Project.

DEPT. IN CHARGE: ENGINEERING TECHNOLOGY.

D47

MECHANICAL ENGINEERING TECHNICIAN COURSE

This part-time day and evening course is intended to prepare 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 in Mechanical Engineering or Leaving Certificate or endorsement in Senior Craft Certificate.

Course of Study

First Year


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 1 examination of the City & Guilds of London Institute No. 255, Part II at the end of the second year, and Part III at the end of the third year.

DEPT. IN CHARGE: ENGINEERING TECHNOLOGY.

D59

SHORT COURSE PROGRAMME

A series of 2-5 day short courses on modern developments in Engineering Technology may be organised at different stages during the session. These may include:

(a) Low Cost Automation;
(b) Fluid Power;
(c) Maintenance Management Techniques;
(d) Modern Production Methods;
(e) New Developments in Welding Technology;
(f) Fuel Technology;
(g) Fire Safety;
(h) Structural Design Codes;
(i) New Materials;
(k) Water Pollution Control;
(l) Energy Conservation;
(m) Engineering Costings and Estimating.

DEPT. IN CHARGE: ENGINEERING TECHNOLOGY.
ENGINEERING — EVENING COURSES

GRADUATE COURSES IN ENGINEERING

A course to prepare students for the Part II examinations of Professional Engineering Bodies including:—

(i) Institution of Engineers of Ireland.

(ii) The Engineering Council (UK) and its associated Professional Bodies such as:—

(a) The Institution of Mechanical Engineers;
(b) The Institution of Production Engineers;
(c) The Institution of Structural Engineers;
(d) Chartered Institute of Building Services Engineers.

Courses are offered for the Part II stage provided there are sufficient applicants of a suitable educational standard.

Depending on demand, the following Part II subjects may be offered: The Engineer in Society, Mechanics of Solids, Materials, Structural Analysis, Structural Design, Thermodynamics, Fuel and Energy, Construction Management, Geotechnical Engineering and possibly other subjects. Students are required to complete a Laboratory Programme as part of this course.

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, Examination Dept., Second Floor Savoy Hill House, London WC2R OBU, Tel: 01-379 7459.

Entrance Requirements

Before entry, applicants must meet the requirements of the appropriate Institution for student membership. They are urged to make early applications to the Institutions because it may take several months to process and it is not possible to sit the examinations until this has been completed.

The requirement for students 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 I. Details are available from the Department of Engineering Technology.

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 First year (Elementary Stage) Subjects:
Mathematics, Mechanics, Heat, Drawing.

At the end of the Second year (Intermediate Stage) Subjects:
Mathematics, Mechanics, Heat and Heat Engines, Drawing.

At the end of Third Year (Advanced Stage) Subjects:

Entrance Requirements

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

Dept. in Charge Engineering Technology.
E43C

CIVIL ENGINEERING TECHNICIANS' CERTIFICATE COURSE

This is a four-year evening course to prepare students in suitable employment for a Civil Engineering Technicians' Certificate. It parallels Course D43C and Course B126 and follows the same syllabus.

Entrance Requirements

The entrance requirement is Leaving Certificate in five subjects including Mathematics or equivalent qualification.

Course of Study


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 a Building Services Engineering Technician Certificate. It parallels Course B127 and Course D43V, and follows the same syllabus.

Entrance Requirements

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

Course of Study


Stage II — Third & Fourth Year (Certificate Stage) Subjects: 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.


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 Mechanical Engineering Technician Certificate. It parallels Course B128 and D43M and follows the same syllabus but 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.

Course of Study


Stage II — Third & 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.


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 course for Mechanical Engineering Technicians (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 part-time day course.

**Dept. in Charge Engineering Technology.**

**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 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 COURSE**
This is a two year evening Certificate course 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 of Diploma Stage.

**Course of Study**

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

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

**Examinations 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 the one year Diploma course, which leads to the Membership grade (MIIM).

Those who enrol are required to apply for student membership of the Institution prior to embarking on the course.

**Dept. in Charge Engineering Technology.**

**E58 REFRIGERATION ENGINEERING TECHNICIAN COURSE**
This is a two year course for technicians employed in the refrigeration engineering industry. Suitable students are prepared for the City & Guilds of London Institute examinations in Science and Technology of Refrigeration (257). The subjects of instruction are: Science, Refrigeration Processes and Machinery, and Drawing.

**Dept. in Charge Engineering Technology.**

**E60 DOMESTIC HEATING AND ENVIRONMENTAL ENGINEERING COURSE**
This two 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. Members may gain entry, with some exemptions, to the part-time Building Services Engineering courses (D43V or E43V).

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

**Duration of Course**
Three evenings per week over two years.

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


**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 the candidates who successfully complete the course. The Diploma entitles candidates to use 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.

**Subjects**


**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.

**Subjects**


**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.

**Subjects**


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**Entrance Requirements**

Leaving Certificate or equivalent qualification. Exemptions 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 and Management.

**Entrance Requirements**

Day Vocational Group Certificate or Intermediate Certificate with Honours in certain specified subjects.

**Dept. in Charge Automobile Engineering.**

**E46**

**FLIGHT OPERATION OFFICER (DISPATCHER COURSE)**

This course provides instruction for flight operations officers in all operational aspects related to the preparation for commercial flights and the monitoring of all flights from a safety and efficiency viewpoint from the ground. It includes flight planning, aircraft loading, flight watch and operational considerations such as weight and runway limitations for the aircraft performance, weather, and ATC procedures.

The course follows the guidelines of ICAO standardised course 201.

**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 Departments of the Aeronautical Industry. The course
covers Aircraft Organisation and Practice, and Aircraft Operational and Maintenance Planning.

Entrance Requirements
Personnel employed in Planning Departments in the Industry and holders of Part II Examinations of the City & Guilds of London Institute Certificate Course (258).

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 AC LICENCE
- E52B F27 MARK 050 AND P & W 125 ENGINE
- E52C 'A' LICENCE – B737
- E52D 'A' LICENCE – B747
- E52E 'A' LICENCE – B727
- 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
- E52S B 737 CONVERSION AND CFM 56 ENGINE.
- E52T B737 – 200/300 DIFFERENCES COURSE.
- E52U B737 – 400/500 DIFFERENCES COURSE.

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

Entrance Requirements
Basic Aeronautical Engineering Certificate in appropriate Category.

Dept. in Charge Aeronautical Engineering.

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.

BASIC AERONAUTICAL ENGINEERING CERTIFICATES OF THE DEPARTMENT OF TOURISM AND TRANSPORT

- E55 AIRFRAMES PRESSURISED (B.A.E.C.2)
- E55B PISTON ENGINES (B.A.E.C.3)
- E55C TURBO – PROP & TURBO – JET ENGINES (B.A.E.C.4)
- E55D HELICOPTERS (LESS ENGINES) (B.A.E.C.5)
- E55E ELECTRICAL (B.A.E.C.6)
- E55F RADIO (B.A.E.C.7)
- E55G INSTRUMENTS (B.A.E.C.8)

The above courses are one year 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.

PRIVATE AIRCRAFT PILOT'S LICENCE

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 Course
1 year, one evening per week for each course.

Dept. in Charge Aeronautical Engineering.
E71 INTRODUCTORY COMPUTER PROGRAMMING

This is a one year evening course in COBOL to prepare students for the City and Guilds Examination 424 (Preliminary Certificate in Applications Programming).

Entrance Requirements
(a) Leaving Certificate or equivalent and
(b) Commercial or Industrial experience related to Computing.

Course of Study

Application Procedure
Applicants must present themselves at the College for interview between 6.30 p.m. and 8.00 p.m. during the week commencing September 10th. Only those with written evidence of (a) and (b) above will be considered for the limited number of places available.

Other Information
The course involves attendance on two evenings a week throughout the session.

Dept. in Charge Science, Mathematics and General Studies.

E72 COMPUTER PROGRAMMING

This is a one year evening course in COBOL to prepare students for the City and Guilds Examination 425 (Applications Programming Certificate)

Entrance Requirements
City and Guilds Preliminary Certificate in Applications Programming in COBOL or equivalent.

Course of Study
Fundamentals of Data Processing, Computing and Computer Hardware, File Organisation and Processing, Introduction to Software, Computerised Database Systems, Transaction Processing, Program Writing and Documentation, Developing and Testing Programs, Completion of an Approved Programming Project, Amendment to an Existing Program, Program Development Aids, the Overall Development Task.

Application Procedure
Applicants must present themselves at the College between 6.30 p.m. and 8.00 p.m. during the week commencing September 10th. Proof of qualification for entry must be furnished by applicants.

Other Information
The course involves attendance on two evenings a week throughout the session.

Dept. in Charge Science, Mathematics and General Studies.
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 FAS training centres in the practical skills of their trade and are released to attend classes in the other course subject. In subsequent years their training and education requirements are provided by the College.

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 Trade.

The School of Construction Trades provides courses for the trades of Carpentry and Joinery, Brickwork and Plasterwork, Metal Fabrication, Welding, Foundry Work, Plumbing, Wood Machining, Furniture Manufacture and Sheet Metalwork.

The School of Printing provides courses, 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 Colleges and DIT courses.
CRAFT AND TRADE RELATED COURSES — DAY

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

Department of Building Trades ‘A’
Department of Building Trades ‘B’
Department of Automobile Engineering
Department of Engineering Trades
Department of Metal Fabrication & Plumbing
Department of Aeronautical Engineering

- Courses D101—D112 inclusive.
- Courses D120—D122B inclusive.
- Courses D124A—D136 inclusive.
- Courses D140—D142 inclusive.
- Courses D143A—D152 inclusive.
- Courses D154A—D155 inclusive.

D101A
BRICKWORK — DAY RELEASE

This course requires attendance on one day and one night a week for the First and Second Year and one day per week thereafter. The course is designed to allow students to take 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.

D101B
BRICKWORK — OFF-THE-JOB COURSE

This course meets the requirements of apprentices who are attending full-time for one year at a FAS 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.

D102A
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 prepare 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.

D105A
PAINTING AND DECORATING — DAY RELEASE

This course meets the requirements of apprentices who are attending full-time for one year at a FAS 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 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.

D105B
PAINTING AND DECORATING — OFF-THE-JOB COURSE

This course meets the requirements of apprentices who are attending full-time for one year at a FAS 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.

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 prepare students to take the City & Guilds of London Institute Examinations in Vehicle Body Craft Studies Part I and Part II.

Entrance Requirements
Apprenticeship to trade.

D111A
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 prepare students to take
the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education.

**Entrance Requirements**
Apprenticeship to the trade.

**D11B**
**CABINETMAKING/CHAIRMaking — OFF-THE-JOB COURSE**
This course meets the requirements of the apprentices who are attending full-time for one year at a FAS 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.

**D12**
**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 1990/91 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 full-time basis during their first year. They are released to attend the College on one day per week during this period and the course prepares them to take the Junior Trade Certificate Examination of the Department of Education.

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

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

**Entrance Requirements**
Apprenticeship to the Trade.

**D122B**
**WOODCUTTING MACHINIST — OFF-THE-JOB**
This course is designed to meet the requirements of apprentices who are attending a Training Centre on a full-time 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.

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A painting apprentice displays his skill.
D124A
HEAVY VEHICLE MECHANICS — OFF-THE-JOB
Department of Education Junior Trade Certificate including endorsement subjects and the City & Guilds of London Institute Craft Certificate 381 Part I.

Objective
Duration of Course
One year of 36 weeks.
Attendance
One week (35 hours) in every three weeks for first year.
Subjects
Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D127A
LIGHT VEHICLE MECHANICS — OFF-THE-JOB
Department of Education Junior Trade Certificate with endorsement subjects.

Objective
Duration of Course
One year over 36 weeks.
Attendance
One week (35 hours) every 3 weeks for first year. One day (7 hours) and two evenings (6 hours) each successive year.
Subjects:
Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D124B
HEAVY VEHICLE MECHANICS — BLOCK RELEASE
Department of Education Junior and Senior Trade Certificates plus endorsement subjects.

Objective
Duration of Course
Block release for 11 weeks each year (32½ hours per week) over four years.
Attendance
One day (7 hours) and two evenings (6 hours) each week.
Subjects
Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D127B
LIGHT VEHICLE MECHANICS — BLOCK RELEASE
Department of Education Junior and Senior Trade Certificates plus endorsement subjects.

Objective
Duration of Course
Block Release for 11 weeks during each year of apprenticeship with attendance at College for 36 hours each week.
Attendance
One day (7 hours) and two evenings (6 hours) each week.
Subjects
Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D125
MOTOR CYCLE MECHANICS
The City & Guilds of London Institute Craft Certificate 389.

Objective
Duration of Course
Two years of 38 weeks each year.
Attendance
One day (7 hours) and two evenings (6 hours) each week.
Subjects
Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.
D127C
Objective
Department of Education Junior and Senior Trade Certificates plus endorsement subjects and the City and Guilds of London Craft Certificate.
Duration of Course
4 years of 38 weeks each year.
Attendance
1 day (7 hours) and 2 evenings (6 hours) each week.
Subjects
Enterance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D127D
Objective
Department of Education Junior Trade Certificate with endorsement subjects.
Duration of Course
One year over 38 weeks.
Attendance
One and a Half Days (10 hours) and one Evening (3 hours) each week.
Subjects
Enterance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D127E
Objective
Department of Education Senior Trade Certificate with endorsement subjects.
Duration of Course
Two years of 38 weeks.
Attendance
Two days (14 hours) each week.
Subjects
Enterance Qualifications
Department of Education Junior Trade Certificate.

D128A
Objective
The City & Guilds of London Institute 620, Part I.
Duration of Course
One year over 36 weeks.
Subjects

Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D131B
Objective
LIGHT VEHICLE BODY REPAIR — BLOCK RELEASE
The City & Guilds of London Institute 385 Certificate Parts I and II

Duration of Course
Block release for 11 weeks during each year of apprenticeship.

Subjects

Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D131C
Objective
LIGHT VEHICLE BODY REPAIR — DAY RELEASE
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.

Subjects

Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D134
Objective
AUTO-ENGINEERING TECHNICIANS
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 (7 hours) and 2 evenings (6 hours) each week for 38 weeks.

Subjects

Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D140A
Objective
FITTING, TURNING & MAINTENANCE SYSTEMS — DAY RELEASE
Department of Education Junior & Senior Trade Certificates with endorsements and City & Guilds Certificate in Engineering Systems Maintenance competences.

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

Subjects

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

D136
Objective
AUTOMOBILE ENGINEERING
Department of Education Junior & Senior Trade Certificates with endorsements.

NOTE: The City & Guilds Certificate in Engineering Systems maintenance Competences classes are available in the evenings.
A First Prize winner in Engineering Trades at one of the College award ceremonies.

D140B  FITTING/TURNING & MAINTENANCE SYSTEMS — OFF-THE-JOB

This course is designed for Fitter/Turner and Maintenance Fitter Apprentices attending off-the-job courses in Training Centres.

Objective
Department of Education Junior Trade Certificate with endorsements, and City & Guilds Certificates in Engineering Systems Maintenance Competences.

Duration of Course
One year release (1½ days and 1 or 2 evenings each week, or one week in three over the session). Release in years 2 & 3 from industry is on a Day or Block Release basis.

Subjects

Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D142  TOOLMAKING

This course caters for Toolmaking apprentices.

Objective
Department of Education Junior and Senior Trade Certificates with endorsements, and modules of City and Guilds Computer-Aided Engineering Course.

Duration of Course
First year release from Training Centres for Department of Education Junior Stage Examinations with endorsements and City & Guilds Computer-Aided Engineering Stage I — followed by two years of day release from industry (1 day and 1 or 2 evenings each week) for Department of Education Senior Stage Examinations with endorsements, and City & Guilds Computer-Aided Engineering Stage II with an option for Stage III.

Subjects

Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.

D143A  WELDING — DAY RELEASE

This course requires attendance on one day and one evening per week over four years. The course is designed to prepare students to take the Junior and Senior Trade Certificate 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.

D143B  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.**

**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 FAS. 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.

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

**D149**

**SHEET METALWORK — DAY RELEASE**

This course requires attendance on one day and one evening 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 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.

**Employment as a Sheet Metalwork apprentice.**

**D150A**

**METAL FABRICATION — DAY RELEASE**

This course requires attendance on one day and one evening 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 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.

**Employment as a Metal Fabrication apprentice.**

**D152**

**CRAFT TECHNICIAN CERTIFICATE COURSE IN PLUMBING**

This course may be offered on a day release and evening attendance basis in the 1990/91 session. See course E152 for further details.
CRAFT & TRADE RELATED COURSES — EVENING

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

Department of Construction Trades ‘A’ — E101, E102, E104, E104B, E105, E106, E107, E111

Department of Construction Trades ‘B’ — E1, E120, E121, E122A, E122B

Department of Automobile Engineering — E125, E128, E130, E131, E133A, E133B, E133C, E136

Department of Engineering Trades — E139, E140, E141A, B, C, D, E, F & G, E142

Department of Metal Fabrication & Plumbing — E143A, E143B, E143C, E143D

Department of Aeronautical Engineering — E154, E154A, E154B, E154C

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

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At the presentation of Certificates and Awards in the School of Construction Trades, left to right: John Gahan, brickwork; Patrick Monaghan, plumbing; Michael O'Donnell, Principal College of Technology; John Paul, President, Martin Builders Association and Sean O'Farrell, sheetmetal work.
PAINTING AND DECORATING
This course is designed to assist students to prepare for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificate 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 craftsmen 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.

VEHICLE BODY BUILDING
This course is designed to assist students to prepare for appropriate Advanced Certificate Examination 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.

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.

Subject
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 Building Construction, Builders Quantities, Land Surveying and Setting-out, Plane and Solid Geometry.
3rd Year Building Construction, Builders Quantities, Plane and Solid Geometry.

CRAFT 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:
Building Construction II, Building Quantities and Account Procedures, Surveying & Levelling, Structural Engineering and Site Management.

Stage III:
Craft Based Technician Certificate in Building (Dublin Institute of Technology)

**Objective**
The City & Guilds of London Institute 384. Vehicle Parts Personnel, Part I.

**Course Duration**
2 years, 30 weeks per year, 2 evenings per week (6 hours).

**Subjects**
Parts Merchandising, Commercial Practice and Office Procedures, Stores Administration, Motor Vehicle Knowledge, Computer Studies.

**Entrance Qualifications**
Day Vocational Group Certificate or Intermediate Certificate.

**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.

**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.

**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.

**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.

**MOTOR CYCLE MECHANICS**
The City & Guilds of London Institute Craft Certificate 389.

**Objective**
The City & Guilds of London Institute 389. I

**Course Duration**
2 years of 30 weeks each year, 3 evenings (9 hours) each week.

**Subjects**

**Entrance Requirements**
Employment as a motor cycle mechanic.

**CONSTRUCTION PLANT FITTERS**
The City & Guilds of London Institute Full Craft Certificate 620, Part III.

**Objective**
The City & Guilds of London Institute 620, Certificate 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 III.

**MOTOR VEHICLE PARTS PERSONNEL**
Objective
The City & Guilds of London Institute 384. Vehicle Parts Personnel, Part I.

**Course Duration**
2 years, 30 weeks per year, 2 evenings per week (6 hours).

**Subjects**
Parts Merchandising, Commercial Practice and Office Procedures, Stores Administration, Motor Vehicle Knowledge, Computer Studies.

**Entrance Qualifications**
Day Vocational Group Certificate or Intermediate Certificate.

**MOTOR VEHICLE CRAFT STUDIES — DIAGNOSTIC TECHNIQUES**
Objective
The City & Guilds of London Institute 381 Part III.

**Course Duration**
Four years, 30 weeks each year.

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

**Subjects**
Diagnostic Techniques (engine), Diagnostic Techniques (transmission), Automatic Gearboxes.

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

**MOTOR VEHICLE CRAFT STUDIES — COMPR ESS 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.

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

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

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

**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.

**AUTOMOBILE ENGINEERING UPDATING COURSE**
Objective
Continuing Education Programme.

The City & Guilds of London Institute 381, Part III, Modular.
<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Objective</th>
<th>Entrance Qualifications</th>
<th>Module Description</th>
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<tbody>
<tr>
<td>E139 QUALITY CONTROL</td>
<td></td>
<td>This course provides a background for those who have responsibility for setting specifications for performance in manufacture or service industry and techniques for measuring their achievement.</td>
<td>Department of Education Senior Trade Certificate.</td>
<td>This is a one-year course to prepare mechanical engineering craftspeople for the City &amp; Guilds 2303 Level III Certificate.</td>
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<tr>
<td>E140 ENGINEERING SYSTEMS MAINTENANCE COMPETENCES</td>
<td>One year</td>
<td>The City &amp; Guilds of London Institute Parts I &amp; II, 743 Quality Control Certificate.</td>
<td>Craft, Technician and Supervisory personnel with suitable background.</td>
<td>The City &amp; Guilds of London Institute Parts I &amp; II, 743 Quality Control Certificate.</td>
</tr>
<tr>
<td>E141 COMPUTER-AIDED ENGINEERING</td>
<td>One evening per week for each element</td>
<td>A series of short courses for those requiring an understanding of new engineering technologies and their implications — City and Guilds 2302 scheme.</td>
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<tr>
<td>E141A Basic NC/CNC</td>
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<tr>
<td>E141B Basic CAD/CAM.</td>
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<td>E141C Basic Robotics</td>
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<td></td>
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<tr>
<td>E141D NC/CNC Machine Setting and Operation</td>
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<td></td>
<td>This is a one-year course to prepare mechanical engineering craftspeople for the City &amp; Guilds 2303 Level III Certificate.</td>
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<tr>
<td>E141E NC/CNC — Part Programming</td>
<td>One year (one evening per week)</td>
<td>The City &amp; Guilds of London Institute 2303 Level III Certificate.</td>
<td>City and Guilds of London Institute 2303 Certificate (E141A).</td>
<td></td>
</tr>
<tr>
<td>E141F NC/CNC — Advanced Part Programming</td>
<td>One year (one evening per week)</td>
<td>The City &amp; Guilds of London Institute 2304 Level IV Certificate.</td>
<td>City &amp; Guilds of London Institute 2303 Level III Certificate (E141A &amp; B).</td>
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<tr>
<td>E141G COMPUTER AIDED DRAUGHTING</td>
<td>One year (one evening per week)</td>
<td>City &amp; Guilds of London Institute 2304 Level III Certificate.</td>
<td>Familiarity with conventional draughting skills.</td>
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<tr>
<td>E142 MECHANICAL ENGINEERING CRAFT STUDIES</td>
<td>Two years (2 evenings per week)</td>
<td>The City &amp; Guilds of London Institute Mechanical Engineering Craft Studies Certificate 205, Part II and Part III. Students take the appropriate Part II examinations at the end of the first year of the Course and Part III at the end of the second year.</td>
<td>Two different options may be offered at Part II as follows: E142A Machining E142B Maintenance</td>
<td></td>
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<tr>
<td>E142C Factory Services (Maintenance)</td>
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<td></td>
<td>Four different options may be offered at Part III as follows: E142C Factory Services (Maintenance)</td>
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<tr>
<td>E142D Machining</td>
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<td>E142D Machining</td>
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<td>E142E Toolmaking</td>
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<td>E142E Toolmaking</td>
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<td>E142F Inspection</td>
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<td>E142F Inspection</td>
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<tr>
<td>E142 Entrance Qualifications</td>
<td>First Year: Department of Education Junior Trade Certificate or equivalent and current attendance on block or day release courses.</td>
<td>First Year: Department of Education Junior Trade Certificate or equivalent and current attendance on block or day release courses.</td>
<td></td>
<td>Second Year: City &amp; Guilds of London Institute 205, Part II or equivalent.</td>
</tr>
</tbody>
</table>
E143A  COURSE IN WELDING — METAL ARC AND OXY-ACETYLENE
This course is designed to meet the needs of craftsmen employed in the engineering or allied industries. The course covers both gas and electric-arc welding. Each course is of 22 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  GAS SHIELDED ARC WELDING
This is a special evening course designed to enable senior apprentices and craftsmen employed in engineering and allied trades to prepare for the IS200 Welding Certificate in low carbon steel and also for the BS 4872 Part II Certificate in aluminium (MIG and TIG process).

Duration One year. (One evening per week from 7.00 p.m. to 10.00 p.m.)

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

E143C  WELDING — ADVANCED (PIPE)
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).

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

E143D  WELDING ADVANCED (PLATE)
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.

E145A  CASTING TECHNOLOGY — MODERN DEVELOPMENTS
Objective To provide Technician Engineers and Supervisors in the foundry industry with the skills applicable to new processes and production methods within the industry.

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

Entrance Requirements Employment in the Foundry Industry.

E145B  METAL CASTING APPRECIATION
Objective To provide Metalwork Teachers with an appreciation of Metal Casting and metallurgy applicable to the Intermediate Certificate and Leaving Certificate courses in Metalwork Engineering.

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

Entrance Requirements Employment as Metalwork Teachers in the V.E.C. System.

E145C  ART METAL CASTING
Objective To introduce Artists & Sculptors and others involved in making statuary and Objets d'Art, to good design practice and the principles involved in casting in Brass, Bronze and Aluminium.

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

Entrance Requirements Appropriate to those involved in Artistic Work.

E148  CRAFT TECHNICIAN CERTIFICATE COURSE IN METAL FABRICATION & WELDING
This three-year evening course of study has been designed to enable senior apprentices and craftpersons to qualify as Craft Technicians and be capable of filling supervisory positions in the Metal Fabrication and Welding Industry.

Course of Study

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 DIT Craft Technician Certificate will be awarded to students who have passed the Final Examinations in all subjects.
This course is designed to assist Craftsmen to prepare for the Senior Trade Certificate Examinations of the Department of Education or the City and Guilds of London.

Duration
One year, two evenings 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
Sheetmetal Work — Updating of Skills
This course is designed for the Sheetmetal work crafts person who require to update their practical skills.

Duration
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.

Entry Requirements
Employment in the Sheet Metal Industry.

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 or City and Guilds of London.

Duration
One year, two evenings per week.

Subjects
Trade Theory & Drawing.

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

E151
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, two evenings per week.

Subjects
Trade Theory & Drawing.

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

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.

Course of Study

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


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

At the end of each stage, students will be required to be successful in a College examination in each subject before proceeding to the next stage. A DIT Craft Technician Certificate will be awarded to students who pass the final (Stage III) examination in all subjects. Students who are successful in the final examination may apply for corporate membership of the Institute of Plumbing and are also eligible for the Engineering Technician status of the Engineering Council.

E154
Aeronautical Engineering Craft Studies

E154A
Stage I
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 Competence.

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

E154B
Stage II
(Mechanical)
This one year course is designed to prepare students for Part II of the City & Guilds of London Examinations in Aeronautical Engineering Craft Studies (Course No. 208). Classes are held on three evenings per week from October to May.

Part II City & Guilds Aer Engineering Craft Studies or Aeronautical Engineering Occupational Competences.
Printing & Graphic Communications

The School offers courses at Craft, Technician and Diploma levels. It also provides a wide range of part-time programmes to meet the changing needs of the Printing and Graphic Communications Industry. Close links are maintained with industry through direct contact with employers, project work, research activities and advisory committees. Close liaison with professional bodies such as PIRA, GATF, BPIF NAPM and IOP ensures that the courses reflect current trends in technological education and training.

The opportunities for technician and diploma graduates are very good and the courses offer the prospects of interesting and varied careers.

The School is the National Centre for Apprentice Education and Training and in addition offers an extensive evening programming embracing management, design and technology.

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### B130 TECHNICIAN CERTIFICATE IN PRINTING/DIPLOMA IN PRINTING MANAGEMENT

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

**Entrance Requirements**

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

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

**Course of Study**

The following subjects are included in the Certificate programme:

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

**Awards**

Graduates from this course are eligible for the following awards:
(a) Technician Certificate in Printing (Dublin Institute of Technology), National Certificate in Technology (Printing Technology) (National Council for Educational Awards)
(b) Diploma in Printing Management (Dublin Institute of Technology), National Diploma in Business Studies (Printing Management) (National Council for Educational Awards)

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### B131 DIPLOMA IN GRAPHIC REPRODUCTION TECHNOLOGY

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

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

**Course of Study**

**Award**
Graduates of the course are eligible for the following awards:
(a) Diploma in Graphic Reproduction Technology (Dublin Institute of Technology)
(b) National Diploma in Technology (Graphic Design) (National Council for Educational Awards)

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

### CRAFT RELATED COURSES

**D190**
**COMPOSITORS’ WORK**
(Block-release Course)

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

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

**Entrance Requirements**
Apprenticeship.

**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

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**The Principal of the College with Bernard Rorke, National Organiser of Irish Print Union and M. S. O’Loingsh, President of the Irish Master Printers Association at the presentation of the Miller Cup to the 1989 winner Grainne Gilfen of Foyle Press.**
PRINTING & GRAPHIC COMMUNICATIONS — EVENING COURSES

E83

INTRODUCTION TO PRINTING TECHNOLOGY

A one year course to prepare students for the Introduction to Printing Technology examinations 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.

E84

COST ACCOUNTANCY FOR PRINTERS

A one year course designed to prepare students for the examinations of the British Printing Industries Federation.

Entrance Qualifications

Royal Society of Arts Certificate in Accounting and Office Procedure, or equivalent.

E85

ESTIMATING FOR PRINTERS

A one year course designed to prepare students for the examination of the British Printing Industries Federation.

Entrance Qualifications

Leaving Certificate and Introduction to Printing Technology of the British Printing Industries Federation or equivalent.

E86

PAPER TECHNOLOGY

A two-year course for personnel employed in Printing, Paper and Packaging Industries. Students are prepared for the examination of the National Association of Paper Merchants (London).

Entrance Qualifications

Leaving Certificate or equivalent.

E87

DESIGN FOR PRINTING

This is a two-year course to prepare students for the City & Guilds of London Institute examination in Design for printing.

Entrance Qualifications

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

E88

INTRODUCTION TO MANAGEMENT (GRAPHIC INDUSTRIES)

Duration of Course

A one year course to prepare students for the City & Guilds of London Institute Certificate in Introduction to Management (Graphic Industries).

Entrance Qualifications

Department of Education Senior trade Certificate in a Printing discipline or an equivalent qualification.

E89

PACKAGING TECHNOLOGY

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

Entrance Qualifications

Employment in the Packaging Industry.

E96

PRINT SALES

A one year course to prepare students for the B.P.I.F. Sales Examination.

Entrance Requirements

Employed in the Graphic Communication Industry.

E180

BOOK AND ARCHIVE RESTORATION

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

E182

PRINT FINISHING

This one year 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 is laid on hand and machine operations, e.g., wire stitching, sewing and folding, machine and hand feeding, gathering, gluing and mounting.
E191 BOOKBINDING AND PRINT FINISHING RETRAINING
This one year evening course for personnel employed in the Printing Industry provides instruction in the latest techniques, and covers the whole range of materials and technology used in print finishing processes.

E192 LITHOGRAPHY AND PHOTO-LITHOGRAPHY RETRAINING
This is a one year course for personnel employed in the Printing Industry with instruction in the latest techniques of lithographic plate making and press operation.

E195A ELECTRONIC COMPOSITION
This one year evening course for suitably qualified personnel, deals with a wide range of electronic composition equipment.

E195B ORIGINATION/PLANNING/CAMERA
This is a one year course for suitably qualified personnel, covering all aspects of origination, planning and camera.

E195C DESK TOP PUBLISHING
This course is for personnel requiring training in Desk Top Publishing. Design is an important feature of the course. A second year course is available for those wishing to pursue computer aided design.

E200 SCREEN PRINTING
This is a two year course leading to the award of a City and Guilds Certificate in Screen Printing.

EXPANDING THE COLLEGE'S RESEARCH AND CONSULTANCY ACTIVITIES AND LINKS WITH INDUSTRY

The College has a total enrolment of nearly 7,000 students including more than 2000 fulltime students, 1800 part-time students and over 3,000 craft apprentices who attend through either a day release or block release arrangement. At least 4,500 of these students are already in employment and this helps to maintain close links between industries which sponsor or employ them and the College.

The work of the College is focused in three main disciplines relating to the Construction, Engineering and Printing sectors and almost all of it is technologically based.

The College has developed a number of specialised units or activities in response to identified needs. These include:

(a) Advanced Manufacturing Technology (AMT) Centre which is partially funded by the office of the Minister for Science and Technology and Eolas to provide specialised training and consultancy services for industry with a particular emphasis on Flexible Manufacturing Systems (FMS). Further information is available from Mr. Oliver McNulty, Director of the Centre.

(b) The College offers a number of "Training for Trainers" courses under the EC Eurotecnet programme in areas such as Advanced Manufacturing, Computer Aided Design (CAD) and Quality Control. Further information is available from Mr. Michael Murphy, (Vice Principal).

The Minister for Science and Technology, Michael Smith, TD, with Oliver McNulty (Director of Centre), Pat Carey (Chairman CDVEC), Michael O'Donnell (College Principal) and Jim McBride (Chief Executive of Eolas) at the formal opening of the College's Advanced Manufacturing Technology (AMT) Centre.
(c) With the aid of the EC STAR programme the College has developed a Building Information Centre to provide better information services on appropriate products and services to the Irish Construction Industry and its associated professions. This has a computerised database and is accessed by enquirers using the telephone network. It helps to establish and maintain closer links between the College and the Construction Industry. The Manager of the Centre is Mr Eamon Buckley and he may be contacted in Room 133 in the College.

(d) The College in association with the other DIT Colleges operates a Product/Project Development Centre which supports young graduates while they are developing their project work towards commercial exploitation. Where considered appropriate they may use College facilities and draw on the expertise of its staff. They are provided with formal instruction on relevant aspect of entrepreneurship including the preparation of business plans, patent law, marketing and other relevant topics. Enquiries should be directed to Mr. Rea O'Neill, DIT Industrial Liaison Officer, 14 Upper Mount Street, Dublin 2.

(e) The College has been working closely with the Irish Timber Council in promoting the greater use of Irish timber. This has involved conducting a number of surveys amongst potential users with a view to identifying the main issues that have to be addressed and organising seminars and other promotional activities. The next phase of this work is to undertake R & D into some of the key aspects and to develop a series of special training programmes for staff employed in the industry recognising that Ireland now has significant forest resources ready for commercial exploitation. Further information is available from Dr. P. McCormack.

The Minister for Science and Technology has recently agreed to fund the appointment of a fulltime Industrial Liaison Officer to assist in promoting and managing the College's R & D activities and it is expected that this will lead to a significant expansion in work of this kind.

General enquiries should be directed to: The Industrial Liaison Office, Room 144, College of Technology, Bolton Street, Dublin 1.

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**GENERAL REGULATIONS of the DUBLIN INSTITUTE OF TECHNOLOGY**

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

**REGISTRATION**

1. The applications 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 bank giro, cash, bankers draft, money order or guarantee from a granting body.

3. Intending students should note the Entry Requirements for admission to the various courses before making 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 £35 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 Receipts.

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. The Identity Card is the Property of the College and may be demanded by the College or its officers or agents at any time. 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.

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 
Educational 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.

Where requested applications must 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 applications will be 
accepted from overseas applicants for admission to part-time day or 
evening courses unless they are already resident in the country.

**STUDENT DISCIPLINE**

1. Students are expected to participate in College activities in the 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 disrupting or causing disruption of any College activity may 
be suspended from College.

4. Students must at all times obey the lawful instruction 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 the College except in areas 
designated for smoking.

8. Students are required to carry their Identity Card with them while in 
College or wherever they may be required to identify themselves as 
students of the College.

9. The Vocational Educational 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 
College 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 Students 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 such conditions as are set down by the College 
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 Governing 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 Student is expected to attend all subjects classes in all unless specifically exempted from doing so and 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 may be refused permission to sit college examinations, and endorsement of their entries for external examination may 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.

EXAMINING BODIES

External Examinations: The courses relate to the Examinations of the following bodies:

1. Department of Education (a) Technological Certificate Examination in:
   - Mechanical Engineering
   - Motor Car Engineering
   - Mathematics

   (b) Trade Certificate Examination in:
   - Bricklaying and Masonry
   - Cabinetmaking
   - Carpentry and Joinery
   - Compositors' Work
   - Lithography
   - Bookbinding
   - Motor Car Engineering
   - Plasterers' Work
   - Plumbing
   - Fitters' & Turners Work
   - Toolmaking
   - Metal Fabrication
   - Sheet Metalwork
   - Welding.

2. Professional Institutions
   - Construction Surveyors' Institute
   - The Engineering Council
   - Institution of Engineers of Ireland
   - Institution of Mechanical Engineers
   - Institution of Production Engineers
   - Institution of Structural Engineers
   - Chartered Institute of Building Services
   - Institution of Industrial Managers
   - Chartered Institute of Building
   - Royal Institution of Chartered Surveyors
   - Royal Institute of the Architects of Ireland
   - Institution of Road Transport Engineers

3. Other Bodies
   - British Federation of Master Printers
   - City & Guilds of London Institute
   - Department of Tourism & Transport (Licences in Aeronautical Engineering)
   - Institute of Domestic Heating Engineers
   - Institute of Motor Industry
   - National Association of Paper Merchants
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 of 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)
Councillor Andrew Callaghan
Mr. Michael Cotter
Mr. Patrick Donegan
Mr. Barry Early
Councillor Liam Fitzgerald TD
Councillor Mary Hanafin
Mr. Seán Lyons
Alderman Thomas MacGiolla TD
Councillor Charles Manus
Councillor Michael O’Halloran, PC
Seáamus Uas Puirséal
Colin Wilson (Student Representative)
Mr. W. J. Arundel, Chief Executive Officer

MEMBERS OF DIT GOVERNING BODY
Mr. Michael Cotter (Chairman)
Councillor Liam Fitzgerald TD
Councillor Patrick Carey
Councillor Mary Hanafin
Councillor Michael O’Halloran, PC
Seáamus Uas Puirséal
Mr. Michael O’Donnell
Mr. William Gardner
Mr. Tom Fitzpatrick
Mr. Gerry Shanahan
Mr. Wolfgang Truetzschler
Mr. Chris Wall

MEMBERS OF COLLEGE COUNCIL
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Mr. John Crimmins
Mr. Patrick Donegan
Mr. Barry Early
Alderman Thomas MacGiolla TD
Councillor Andrew Callaghan
Mr. Richard Kearney
Mr. Charles O’Rourke
Mr. Michael O’Donnell (College Principal)
Mr. Aidan Powell
Miss Alice Prendergast, Staff Representative
Mr. Gary Croke, Student Representative

MEMBERS OF ACADEMIC COUNCIL
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Mr. E. DeBursa FRICS
Dr. T. Dalgic BA MBA PhD

Mr. J.J. Doherty BA
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Mr. P.R. Flood BComm MPA FRMII MIIIM
Mr. W. Gardner (Student Representative)
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Mr. E. Kelly BA (MOD) MSc MEng Sc
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Mr. R. J. Lawlor BA MBA MIEI
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Mr. F. McMahon BComm MBA MIHCl
Mr. O. McNulty CEng FIEI ARTCS MStrucE
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Mr. M. Murphy DipEng MSc CEng MI MechE
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Mr. A.P. O’Connor BComm DPA MIPM MIITD
Mr. B.J. O’Connor CEng MIRE
Mr. M. O’Donnell MIEconSc BE BComm CEng FIEI
Mr. J.J. O’Keeffe BArch FRIA
Mr. P.J. O’Neill BComm
Dr. M. Proctor MSc PhD MIInstMCI
Mr. E.J. Roarty BSc CChem FRIC FIEI CBiol
Ms. A.A. Ryan BSc MSc CBiol DipDipMicro
Mr. J.F. Ryan MA BComm DPA
Mr. J.K. Taffe BSc MSC CPhys MInstP MIA EDF EIE DipProd Barrister-at-Law
Ms. K.M. Tierney MA
Mr. G. Walker BA HDipEd MRP MIP
Mr. J. Bernie TEng (CEI) MInstG TechE (Apprentice Education Board Observer)
Mr. J. Morrissey BA HDipEd (Board of Studies Observer)
Mr. T. Duff (Academic Registrar) BSc CEng MIPProd
Mr. E.P. Tuffy (Education Officer) BSc MED GCL (FETC)

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Mr. J. Erraught MIFA LCG MIEH
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Mr. P. O’Neill
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Mr. J. Morrissey BA HDipEd (Board of Studies Observer)
Mr. T. Duff (Academic Registrar) BSc CEng MIPProd
Mr. E.P. Tuffy (Education Officer) BSc MED GCL (FETC)
ACADEMIC STAFF

SCHOOL OF ARCHITECTURE SURVEYING AND BUILDING

Vice Principal and Head of School:
Gerald Walker BA HDipEd MRP MIPI

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Noel Somerville DipArch MRAI

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David Harris BArch

Denny Smith BArch MRAI

Bernadette Solan DipArch MRAI

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Francis Ford MArch and UD Dip Arch MRAI

Robert Fowler BArch MRAI

William Gilligan BArch FRSA

Dermot Healy Dip Arch MRAI

Fergus A Hogan DipArch FRSA

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James Horan DipArch MRAI

John Lauder BE DipEng (MGT) Dip EngComp

Peter S Manning BArch MRAI

Gerard Mitchell BArch MLA ARIBA

Eamon O’Doherty BArch MRAI

Desmond G O’Dwyer DipArch

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(Econ) CertEd DiSp stats ARCS

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SCHOOL OF ENGINEERING

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ARTCS FIlM

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Albert Byrne MIEEI

Michael Crowley BEng HDipEd MCIBSE

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James Conlon CEng MIEE

Chairman Conran BA BAI MEng SC MIEE

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John Vickery DipEng CEng MIEE

Thomas BSC PhD MA CEng MIPred CertEd U

London

John Towers CEng

Department of Science, Mathematics & General Studies

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Apprenticeship Area: Philip Murray BE MAI MPA

MIEE

Head of Computing: John Turner BE MEngSc

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Michael Brogen BE CEng MIMechE

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Michael Farrell CEng MCIBSE MICE

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John Higgins BE CEng FIEI MIEE

Prof G. Hitchens MSc PhD CEng MIMechE MIEE

Christian Lunde BE MIE

Prof K. Miller BSc PhD MA CEng MIPred

MIPred

MIPred MIMech MIM

Eamon O’Brien FICIBSE MASHRAE MConSt

Prof. J. D. O’Keefe BE PhD CEng FISC MASCE

Anthony Quinlan BE MIEE

Morgan Sheehy BE CEng FIEI FISTructE

John Towers CEng

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William McCarthy CEng MIEI
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David Meehan BSc MSc CPhys CEng MIEE HDipEd
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Gerard O’Brien BSc MSc
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Susan O’Shaughnessy MA H DipEd
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Thomson Power BA AMS
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Derek Shiel MSc

SCHOOL OF TRADES

Vice Principal and Head of School
Matthew P. Farrell CEng MIEE MIEI

SCHOOL OF ENGINEERING TRADES

Head of School: Vacant

Department of Automobile Engineering
Head of Department: Vacant
Assistant Heads:
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Kenneth Bracken SIMI TechDip MIMI AITE

Whole-time Staff
Seán Brannan SIMI TechDip AMIMI AIRTE
Alan Buchowski FTC (C & G)
George A. Campbell MIMI AMIRTE IEng
Martin Egan SIMI TechDip DipSpec & EconSt

Whole-time Staff
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James McGuaran SIMI TechDip
Edward Nolan SIMI TechDip
Alexander O’Halloran SIMI TechDip
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Garrett Sinnott SIMI TechDip AMIMI
Paul Warren SIMI TechDip FTC (C & G)
John Wilcox SIMI TechDip

Part-time Staff
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Joseph Allidene MIRTE James Burgess SIMI TechDip
Hugh Caffrey Bl
William Carroll BComm LDLp
Derek Coyle
Francis Curran MIMI
Joseph Davlin
Desmond Duffy AMIMI
Damien Donlon
Charles Dugan MIMI
Michael Dunphy
Thomas Farrell SIMI TechDip
Sean Guirke DipMIM
Michael Hussain BA HDipEd
Francis McGrane SIMI TechDip AMIMI
Brandan Meenan BComm
Michael Mooney Bl
Lackmave O’Simi TechDip
Peter Mulcahy
Thomas Murphy SIMI TechDip APlantE, LAE, LCG, AMIMI, NCC
John O’Gorman MIMI MIMIS
Francis O’Neill
Michael Ryan IEng MIRTE
Edward Ryanhart
Colin Sheridan SIMI TechDip AMIMI
Eamonn Whelan

External Examiners
Brendan McMahon BSc IEng FIMI AMIMech
Jonathan Parkinson Bed(Hons) IEng LAE FIMI AITE

Head of Department: Robert Eustace BSc Mech E
Assistant Head: Joseph Sheils

Department of Engineering Trades

Whole-time Staff
DesmondAngler
David Cox
Martin Dunne FTC (C & G)
Pierce Flood
Bernadette Kelly
William Kelly
John Lawlor
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James McKenna TEng (CEI) AMIProdE
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Patrik Barry
Patrick Cox
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Frank McKeon
Hugh O’Hara
Michael O’Harr
James Ross
Leslie Smith
Aidan Stewart
Joseph Walsh

Department of Aeronautical Engineering

Head of Department: Vacant
Assistant Head:
William J. Brazil TEng (CEI) AMIProdE

Whole-time Staff
Thomas Corrigan FTC (C & G) AFSLAET TEng (CEI)

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Joseph Clarke MSLAET
Gerard Clifford FAA FDL Adv. Instructor Rating
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GARAGTY
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Patrick Maguire AME
Noel Minihan LME TEng (CEI)
Geraghty
Noel Minihan AME
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David Murray ROL
Brendan Murphy LME
Thomas Nugent AME
Anthony O’Sullivan
Edward O’Reilly LME
Denis O’Shea LME
John Parke LME
Thomas Ridgeway LME
Roel Sheehan LME

SCHOOL OF CONSTRUCTION TRades

Head of School: Joseph Bernie IEng MI MechE

Department of Building Trades ‘A’

Head of Department: Vacant
Assistant Heads:
Joseph Lawlor BA HDipEd BEd
Frederick Hoofstey Final C&G AdvCert

Whole-time Staff
Martin Brennan C&G AdvCert
Patrick Cullen C&G AdvCert
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John Kane FTC C&G FETC
William Lacey C&G FTC LCG
Gerard McGrath C&G AdvCert
Peter McMullen C&G AdvCert
Patrick McNally C&G FTC
Martin Sneyd FTC & C&G FETC

Part-time Staff
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John Duffy C&G FTC
George Monks C&G FTC FETC
Andrew O’Keeley BSc ARCS
Thomas O’Reilly

External Examiners
Owen Lewis BAch MSc FRAI
Leslie Wilder FCIOB

Department of Building Trades ‘B’

Head of Department: Patrick Kelly FTC HTC
Assistant Head: James Kelly FTC HTC AMCSI

Whole-time Staff
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Andrew Dunne FTC (C & G)
William Edwards C&G
Aidan Haigan ABIC Final (C & G) HTC
Christopher P. Kelly LIDB FTC (C & G)
Patrick Kelly Minst Cert
Michael McDonnell (C & G)
John McGuirk ABIC FTC (C & G)
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