College of Technology, Bolton Street Prospectus 1991-92

City of Dublin Vocational Education Committee

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ABOUT THE CONTENTS

This Prospectus has been prepared in four sections for the convenience of its readers.

Section 1 pages 1.2-1.39 provides general information about the College, its operations, management and staffing.

Section 2 pages 2.1-2.55 provides information about the whole-time Degree, Diploma/Certificate and other courses offered by the College and the method of applying for them.

Section 3 pages 3.1-3.31 provides information about Apprenticeship and the various apprentice courses offered by the College.

Section 4 pages 4.1-4.48 provides information about the Part-time Day and Evening and Continuing Education courses offered by the College.

The index for each Section is located at its beginning and the different Sections are colour coded as follows:

<table>
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<tr>
<th>Section</th>
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<tbody>
<tr>
<td>1</td>
<td>Blue</td>
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<tr>
<td>2</td>
<td>Red</td>
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<td>3</td>
<td>Purple</td>
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<td>4</td>
<td>Green</td>
</tr>
</tbody>
</table>

The information in this Prospectus is intended as a guide for persons seeking admission to the College and shall not be deemed to constitute a contract, or the terms thereof, between the College and a student or any third party. The college reserves the right to change or modify any of the courses or information given in the Prospectus without prior notice.

Published in August 1991
<table>
<thead>
<tr>
<th>1991</th>
<th>Term 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEPT.</td>
<td>Monday 2nd Commencement of Session.</td>
</tr>
<tr>
<td></td>
<td>Tuesday 3rd Commencement of Printing Apprenticeship Courses.</td>
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<td></td>
<td>Commencement of Day Release Apprenticeship Courses.</td>
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<tr>
<td></td>
<td>Monday 9th Interviews and enrolments for part-time and evening courses commence except where otherwise arranged.</td>
</tr>
<tr>
<td></td>
<td>Monday 16th Wholetime classes commence except where otherwise arranged.</td>
</tr>
<tr>
<td></td>
<td>Monday 23rd Part-time and evening classes commence except where otherwise arranged.</td>
</tr>
<tr>
<td>DEC.</td>
<td>Friday 20th Final class meetings of first term.</td>
</tr>
</tbody>
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<tr>
<th>1992</th>
<th>TERM 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAN.</td>
<td>Tuesday 7th All classes resume.</td>
</tr>
<tr>
<td>FEB.</td>
<td>Saturday 1st Closing date for all Irish and other EC applications to wholetime courses for 1992/93 session.</td>
</tr>
<tr>
<td>APRIL</td>
<td>Tuesday 14th Final class meetings of second term except where otherwise arranged.</td>
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<tr>
<th>TERM 3</th>
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<tbody>
<tr>
<td>APRIL</td>
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<tr>
<td>MAY</td>
</tr>
<tr>
<td>JUNE</td>
</tr>
</tbody>
</table>

Classes will close on public holidays during the session (viz. 28th October; 17th March; 1st June) and on Church Holidays (viz. November 1st; May 28th; June 18th) except where otherwise arranged.

**NOTE:** This Calendar is subject to alteration during the Session.


**INTRODUCTION TO THE COLLEGE**

**Historical Note**

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

**Dublin Institute of Technology**

In 1978 the Dublin Institute of Technology was established by the City of Dublin 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 23,000 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 its advisory and consultative services.

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

**College of Technology Bolton Street**

The College provides a wide range of courses on a full-time, part-time evening and block release basis, as well as some short courses. It has a total teaching establishment of 350 and now caters for more than 7,500 students. The College aims to provide an integrated system of education from craft apprenticeship to degree and professional levels in the sectors for which it has special responsibility. These include the Construction, Engineering, Printing and Transport industries and it plays an important national role in responding to their various needs.

**College Council**

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

**College Executive Board**

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

**College Academic Board**

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

**Departmental Boards**

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

A major new extension to the College was completed during the 1987/88 session significantly enhancing its accommodation and facilities. This included 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 since then including the refurbishment of parts of the College vacated following the transfer of some activities to the Extension. These included 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.

ADMISSION AND ENROLMENT

Before making an application for admission to any of the College’s courses applicants should note the different procedures described briefly below for:

(a) Wholetime courses
(b) Apprentice courses
(c) Part-time Day and/or Evening courses

Wholetime Courses

Applications for entry into the First Year of all wholetime courses should be made through the CAO/CAS office before the specified closing date. Full details of the procedure are set out in Section 2 of this Prospectus or in the special Information Booklet on the Colleges wholetime courses which is an extract from it.

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/CAS offer notice showing bank stamp confirming that appropriate deposit or fee has been paid.

(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.

Apprenticeship Courses

Apprentices should write to or otherwise communicate with the appropriate Head of College Department or other officer responsible for courses relating to their trade specialisation and seek information as to enrolment dates and procedures.

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 the courses. Enrolment is scheduled to commence on 9th September 1991, and intending applicants should report in person to the college during the scheduled enrolment hours from 9.00 a.m. to 8.30 p.m. during that week.

The Minister for Education formally opening the major extension to the College in September 1989. Also included in Councillor Pat Carey, Chairman CDVEC; Alderman Sean Haughey, Lord Mayor of Dublin; Mr. Michael O’Donnell, Co-Principal; Mr. W.J. Arundel, CEO of CDVEC and Mr. Bertie Ahern, T.D., Minister for Labour.
All students in the College are required to have a current College Identity Card which is issued when enrolment is completed. 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 £5 will be made for the replacement of a College Identity Card during the session and new photographs will be required.

Change of Classes

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

Change of Address or Employment

All students enrolled in the College are required to inform the College Registrations Office (Room 315) of any change in their address or employment.

COURSE TUITION FEES

All students, other than apprentices, are required to pay the specified tuition and other fees on enrolment. 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.

Hardship Cases

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).

FEES FOR ACADEMIC YEAR 1991/92

<table>
<thead>
<tr>
<th>(a) Irish and European Community Students</th>
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<tbody>
<tr>
<td>Wholetime</td>
</tr>
<tr>
<td>Diploma/Degree Courses</td>
</tr>
<tr>
<td>B101; B121; B122; B123; B124; B125</td>
</tr>
<tr>
<td>£995</td>
</tr>
<tr>
<td>Wholetime</td>
</tr>
<tr>
<td>Technician/Certificate Courses</td>
</tr>
<tr>
<td>B114; B115; B116; B120; B126; B127; B128; B130;</td>
</tr>
<tr>
<td>£505</td>
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<tr>
<td>Wholetime</td>
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<tr>
<td>Technician/Diploma Courses</td>
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<tr>
<td>B102; B114; B115; B116; B126; B127; B128; B130;</td>
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<tr>
<td>£530</td>
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<tr>
<td>Part-time</td>
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<tr>
<td>and Evening Courses</td>
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<tr>
<td>D28; D41; D43C; D43M; D43V; D47; D120; D132;</td>
</tr>
<tr>
<td>£192</td>
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<tr>
<td>Evening</td>
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<tr>
<td>Courses</td>
</tr>
<tr>
<td>E71; E72; B81; B82; E141G</td>
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<tr>
<td>£920</td>
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<tr>
<td>Evening</td>
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<tr>
<td>Courses</td>
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<tr>
<td>E141D; E141F; E195C</td>
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<tr>
<td>£200</td>
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<tr>
<td>Post-graduate and Other Evening Courses</td>
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<tr>
<td>D4A</td>
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<td>Other</td>
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<tr>
<td>Courses</td>
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<tr>
<td>E6; E7</td>
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<tr>
<td>£520</td>
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<tr>
<td>All Wholetime courses</td>
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<td>£2,155</td>
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</tbody>
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*bIncludes College examination fees — NCEA examination fees are extra where applicable. All Course and Examination Fees quoted are subject to revision.
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. All enquiries about examinations should be directed to the College Examinations Office (Room 316).

Examination Entry Regulations

An examination entry fee of £33.00 is payable in respect of College Sessional examinations and in the case of College Supplementary examinations a further fee of £33.00 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 20th 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 £33.00. 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 Supplementary 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.

General Examination Information

Candidates will be admitted to the Examination Room only on production of the Identity Card issued by the College in addition to the appropriate admission letter which is issued when and if an application to sit the examination is approved by the College.

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

Examination Rechecks

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.

Examination Appeals

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 £33.00 and be submitted to the Principal or Examinations Secretary. The College accepts requests for rechecks 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.

National Council for Educational Awards

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 £44.00, Certificate stage £44.00 and Diploma Stage £56.00. These fees are subject to revision.
University of Dublin Degree Awards

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.

Other Examinations

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.

COLLEGE REGULATIONS AND INFORMATION

1. General regulations for the College 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 also to the regulations of Dublin Institute of Technology which are reproduced later in this prospectus.

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.

6. 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.

7. 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 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.

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.

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

First Aid

A First Aid service is provided during the session in co-operation 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 co-operation 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 microfiche 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 photocopies
materials and interlibrary loans may be obtained. Access for staff and senior students 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 pm on Saturday.
Vacation periods Monday-Friday 9.30 am-5.30 pm.

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 terminal 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. It has recently installed ten high powered Work Stations with extensive graphics facilities.

**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 1991/1992 session
President: Jeremy Waring
Deputy President: Douglas Scully

**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 student 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.

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 and Windsurfing.

Societies
Architectural Students Association, Auctioneers and Valuers, Business, Cáirdeas, Construction Technician, Christian, Engineering Technician, Film, Geographical Surveying, Green Society, Motor Industry Management, Photographic, Printing, Property Economics, Quantity Surveyors, Students Against Destruction of Dublin (SADD), Student Engineers (SSE), Engineering Technicians (SETS), Third World, St. Vincent de Paul and Romanian Response.
EXPANDING THE COLLEGE’S RESEARCH AND CONSULTANCY ACTIVITIES AND ITS LINKS WITH INDUSTRY

The College has a total enrolment of over 7,500 students including more than 2,150 full-time students, 2,000 part-time students and 3,300 craft apprentices who attend through either a day release or block release arrangement. At least 5,000 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 was 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 Eurotecnec programme in areas such as Advanced Manufacturing, Computer Aided Design (CAD) and Quality Control. Further information is available from Mr. Michael Murphy, (Vice Principal).

(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 and Minitel. 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 aspects 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 involved conducting a number of surveys amongst potential users with a view to identifying the main issues that have to be addressed. 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

APPLIED RESEARCH AND CONSULTANCY ACTIVITIES

Through its many industry linked and professionally based programmes the College has a long tradition of interaction with Irish Industry and Commerce. The importance of such interaction has been recognised in a recent initiative of the Minister for Science and Technology whereby funding has been provided to support a full-time industrial liaison and research management function in the College. Impending legislation will give a statutory basis for future collaborative ventures between the College and Irish companies. Such industrial and commercial links take a number of forms:—

* Collaborative R&D supported under National/or E.C. funding programmes.
* Short Training Programmes for personnel in Industry and Commerce.
* Consultancy Projects.
* Exchange of personnel including staff, graduate and student placement.

These activities can be pursued using the wide range of technological and business expertise in the College’s Construction, Engineering and Printing Sectors.

At the Irish Launch of EUROFORTECH, a COMETT funded joint Irish-Swedish University-Enterprise Training Partnership, in the College in March 1991 (left to right) Mr. Martin Carragher — Manager EUROFORTECH in Bolton St., Dr Iis Eversen — Vice-Chairman, EUROFORTECH, and Forest Products Dept. EOLAS; Her Excellency Margareta Hogland — Swedish Ambassador to Ireland; Mr. Michael Smith TD — Minister for Science and Technology and Dr. Pat McCormack, College Industrial Liaison Officer.
Areas of specialist expertise include:
* Architecture, Design and Technology
* Construction
* Timber Technology
* Mechanical, Production, Civil, Structural and Building Services Engineering
* Transport Engineering including Aeronautics
* Advanced Manufacturing Technology
* Computer Aided Design (CAD)
* Engineering and Buildings Maintenance
* Energy Technology
* Property and Land Use Economics
* The Built Environment
* Surveying including Geo-Surveying
* Printing and Graphic Communications

The College has established a number of links with other European countries through its participation in EC funded programmes. These links are mainly with EC institutions of higher education but they may also involve European industry and commerce. An example of the latter is the College's participation in an EC COMETT funded programme involving a partnership between colleges and the Forest sector industries and professions across Europe.

Further information on the College's Industrial, Research and European activities can be obtained from:
Dr. Pat McCormack
Industrial Liaison Office
College of Technology
Bolton Street
Dublin 1.
Telephone: +353 1 727177
Telefax: +353 1 727879

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.

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**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.

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.

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.

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.

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

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

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.

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 College offers courses relating to the Examinations of the following bodies:

1. Department of Education
   (a) Technological Certificate Examination in:
       (i) Building
       (ii) Mechanical Engineering
       (iii) Motor Car Engineering
       (iv) Mathematics
   (b) Trade Certificate Examination in:
       (i) Bricklaying and Masonry
       (ii) Cabinetmaking
       (iii) Carpentry and Joinery
       (iv) Compositors’ Work
       (v) Lithography
       (vi) Bookbinding
       (vii) Motor Car Engineering
       (viii) Plasterers’ Work
       (ix) Plumbing
       (x) Fitters’ & Turners Work
       (xi) Toolmaking
       (xii) Metal Fabrication
       (xiii) Sheet Metalwork
       (xiv) Welding.

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

3. Other Bodies
   (i) British Federation of Master Printers
   (ii) City & Guilds of London Institute
   (iii) Department of Tourism & Transport (Licences in Aeronautical Engineering)
   (iv) Institute of Motor Industry
   (v) 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 Board 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 FROM JULY 1991
Mr. James Wrynn (Chairman)
Mr. Charles McManus (Vice-Chairman)
Mr. Peter Burke
Ald. Patrick Carey
Ald. Michael Conaghan
Clr. Joe Costello
Ald. Michael Donnelly
Mr. Billy Fitzpatrick
Mr. Gerry Higgins
Clr. Vincent Jackson
Clr. Tomas MacGiualla
Mr. Michael O’Hallorran
Mr. Thomas Simpson
Vacant (Parent Representative)

MEMBERS OF DIT GOVERNING BODY
Not available at time of going to Press.

MEMBERS OF COLLEGE COUNCIL
Not available at time of going to Press.

MEMBERS OF ACADEMIC COUNCIL
Mr. K. Sullivan DipEng MSc MIEI (Chairman)
Dr. B. Goldsmith BSc MSc DPhil (Deputy Chairman)
Ms. V. Abbott MA HDipEd MIL
Dr. I. Beausang BMus MA PhD LRAM DipCSM (Deputising for Ms. E. Farrell)
Mr. F. M. Brennan DipEE CEng FIEI FIREE
Mr. A. Bruton BArch MRIAI RIBA MSDI ACIAH
Mr. R. Burns BSc MSc
Mr. J. T. Byrne BComm MInstE
Mr. J. T. Cotter BSc MSc
Mr. J. Creagh MA ANCA ATC MSDI
Mr. E. DeBurca FRICS
Dr. T. Dalgic BA MBA PhD
Mr. J. J. Doherty BA
Ms. E. Farrell BMus MMs
Dr. J. C. Fisher BA BComm PhD CEng MIEI
Mr. G. Fitzpatrick BA BComm FCA
Ms. R. Flood BComm MPA FMI MIITM
Dr. M. Hearn MEd BScSc DipDomSc HDipEd PhD
Mr. J. A. Hegarty MED DipHlMgt MIEI
Mr. F. Heneghan BE BMus CEng MIChemE FTCL LRIAM
Mr. P. J. Henry BComm MBA
Mr. J. S. Hickey MSc BA
Mr. R. T. Holmes MMus BMus ACRA
Dr. M. Hussey BE MSc PhD CPhys FNstp CEng MIEI
Mr. E. Kelly BA (MOD) MSc Mgmt Sc

MEMBERS OF APPRENTICE EDUCATION BOARD
Mr. M. P. Farrell CEng MIEE MIEI (Chairman)
Mr. J. Bernie lEng. MI MechE
Mr. J. Erraught MCFG LCG MIEI
Mr. R. Eustace BSc (MechE)
Mr. P. Kelly FTC HTC
Mr. B. Kennedy BA FTC (C&G) MIOP LCG
Mr. D. O’Brien NB Dip FTC (C&G)
Mr. T. O’Connor BA
Mr. J. O’Donnell BAH DipEd(Eng)(EE) MIESECIE
Mr. P. O’Neill
Mr. D. Tuite lEng MIMI MIRTE SIMI
Mr. A. Whelan
ACADEMIC STAFF

SCHOOL OF ARCHITECTURE
SURVEYING AND BUILDING

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

Department of Architecture and
Town Planning

Head of Department: John O'Keefe BArch FRSA
Assistant Heads: Sean Gaynor DipArch MRAI
Sean Rothery BArch PhD FRSA

Staff Lecturers
Niall Brennan Dip Arch MRAI
Niall Downes BArch MRAI
Michael Fewer DipArch MRAI
Francis Ford BArch and UD DipArch MRAI
Robert Fowler DipArch MRAI
William Gilligan BArch FRSA
Dermot Healy DipArch MRAI
Teresa A Hogan DipArch MRAI
James Horan DipArch MRAI
John Lauder BE DipEng (MGT) Dip Eng Comp
Peter S Manning BArch MRAI
Gerard Mitchell BArch MLA ARIBA
Eamon O'Doherty BArch MRAI
Desmond G O'Dwyer DipArch
Martin Ridge DipArch MRAI
Duncan Stewart BArch MRAI

Part-time Staff
Denis Bannister DipArch
Gerard F Cantan DipArch MRAI
Liam Carlin MRAI ARIBA
E Connolly DipArch MRAI
Anthony Cosgrave TechEng DipA&F ACIBSE
Patrick Doris MRAI
Brendan Grimes BA BArch MLA
Orna Hanly DipArch MRAI
David Harris BArch
Michael Jordan BArch
David Kelly DipArch MRAI
Thomas Kirk BArch MRAI
Ditty Kummer DipGraphics
David Laverty
Niall McCullough BArch MRAI
Raymond McDonnell BArch MRAI
Michael McCarthy BArch MRAI
Michael McGarry BArch MRAI
Sean McGovern BArch MRAI
Valerie Mulvin BArch MRAI
Eamonn Murphy MRAI ARIBA
Thomas O'Beirne BArch MRAI
Siobhan O'Dea DipArch BScArch
Barbara O'Doherty
Hugh O'Neill BA
Edmund O'Shea DipArch MRAI
Michael O'Sullivan DipArch MRAI
Michael Phillips BArch MRAI

Part-time Staff
Bernard Le Cesne Byrne BE AMICE AM Instit
c John Kearney MRAI
Yvonne McGlynn Dip Geo-Surv
Malcolm Mitchell
Joe O'Byrne FCIOB

External Examiners
Colman O'Donoghue DipArch MRAI
Ciaran O'Connor DipArch MRAI
Brian McNamara DipArch MRAI
Michael Biggins Architect DPLG
Anthony Horan BFA FRSA MSDI (Ireland)
Luigi Moretti Prof. Roma. (Italy)

School of Computing, Mathematics &
General Studies

Head of Department: Jeremiah Cotter MSc
Assistant Heads:
Gerard Lawlor MSc
Patrick J. McCormack PhD MInstP
Apprenticeship Area: Phillip Murray BE MAI MPA
MIE

Head of Computing: John Turner BE MEngSc

Department of Surveying & Building Technology

Head of Department: Eanna De Burca FRICS
Assistant Heads: Joseph P. Davis MInstD MCIIBSE MIET
Neil Gillespie CEng MInstB MIET
Matthew Russell MSc CEng MIET MIProdE CertEd U of London

Staff Lecturers
Ursula Barry BA
Thomas Byrne FTC (C&G)
Donal Cooper MCIIBSE
Esther Donnelly DipGeo-Surv MInst CES
Brendan Dوقع MCIIBSE FIAS
Timothy Enright ARICS
Sara Gerrard BSc PhD
Martin Hanratty DipCon Econ ARICS
Frank W. Harte DipArch MRAI
Robert Jennings MA(Econ) DPA
John McCarthy BArch
Sean McCarthy BE
Eugene McGovern DipGeo-Surv MInst CES
Declan McKewon DipEngM Econ MSc ARICS, MIArB MRAI
John Molloy ARICS Dip Econ
Kevin Mooney MSC DipGeoSurv Inst CES
Roderick Murphy PhD BSc
John A O'Donohoe FCA ATII
Cornelius O'Shea BSc DipArch BArch Sc MRAI
William D O'Sullivan ARCS MSc
Francis Prendergast MSc DipGeo-Surv MInst CES
Terri Prendergast BSc(Surv) MPhil
Paul Quinn ARICS DipCon Econ
Anne Russell BComm, DPA ACA ATII
Desmond Stark Barrister-at-Law
Damien C. Turley BE MSc P Eng (Can) MIE
Rory Walsh ARICS
Stephen Walsh BA (Mod) MA
Tadhg Walshe BE MIE CEng MIE

Part-time Staff
Bernard Le Cesne Byrne BE AMICE AM Instit
John Kearney MRAI
Yvonne McGlynn Dip Geo-Surv
Malcolm Mitchell
Joe O'Byrne FCIOB

Department of Surveying & Building Technology
Head of Department: Eanna De Burca FRICS
Assistant Heads: Joseph P. Davis MInstD MCIIBSE MIET
Neil Gillespie CEng MInstB MIET
Matthew Russell MSc CEng MIET MIProdE CertEd U of London

Staff Lecturers
Ursula Barry BA
Thomas Byrne FTC (C&G)
Donal Cooper MCIIBSE
Esther Donnelly DipGeo-Surv MInst CES
Brendan Dوقع MCIIBSE FIAS
Timothy Enright ARICS
Sara Gerrard BSc PhD
Martin Hanratty DipCon Econ ARICS
Frank W. Harte DipArch MRAI
Robert Jennings MA(Econ) DPA
John McCarthy BArch
Sean McCarthy BE
Eugene McGovern DipGeo-Surv MInst CES
Declan McKewon DipEngM Econ MSc ARICS, MIArB MRAI
John Molloy ARICS Dip Econ
Kevin Mooney MSC DipGeoSurv Inst CES
Roderick Murphy PhD BSc
John A O'Donohoe FCA ATII
Cornelius O'Shea BSc DipArch BArch Sc MRAI
William D O'Sullivan ARCS MSc
Francis Prendergast MSc DipGeo-Surv MInst CES
Terri Prendergast BSc(Surv) MPhil
Paul Quinn ARICS DipCon Econ
Anne Russell BComm, DPA ACA ATII
Desmond Stark Barrister-at-Law
Damien C. Turley BE MSc P Eng (Can) MIE
Rory Walsh ARICS
Stephen Walsh BA (Mod) MA
Tadhg Walshe BE MIE CEng MIE

Part-time Staff
Bernard Le Cesne Byrne BE AMICE AM Instit
John Kearney MRAI
Yvonne McGlynn Dip Geo-Surv
Malcolm Mitchell
Joe O'Byrne FCIOB

External Examiners
Max Abrahamson LLB Solicitor
Allan Adair BA Cert ED, ARIES
Kevin Callan FRICS, FCIOB, ACIArb
John Greer BA MA MRTPI
Prof. Peter Hibberd MSc, FRICS, ACIArb
Michael Keogh Eng Sc, MSc, MIWAI
Richard Kirwan BEng BE MIE
Michael Patchett MCIOB

SCHOOL OF ENGINEERING

Vice Principal and Head of School
Michael Murphy DipEng MSc CEng MIInstE MIE

Department of Engineering Technology
Head of Department:; Oliver McNulty Eur Ing CEng
FIEI ARCS FIM

Assistant Heads:
Daniel Byrne BEng AMInstF MCIBSE MIE
Neil Gillespie CEng MInstB MIET
Matthew Russell MSc CEng FIMIE MIPDIE CertEd U of London

Staff Lecturers
Liam Archer CEng MInstB MIET
Kenneth Beatrice BSc MInstE MCIBSE
John A. Butler DipEng AMInstF CEng MInstB MIE
Albert Byrne MPH
Michael Crowley BSc HDipEd MCIBSE
John Cash BE MSc CEng MI MechE
James Conlon CEng MIE
Gabriel Corcoran BA BAI MEng SC MIE
Ben Costello BA CEng MCIBSE MInst
William Dalton CEng MIE
Louis Demetrious MCIBSE MInstE
Patrick Doyle CEng MIE
Edward Fallon BE CEng MInstE
Patrick Fortune MCIBS
Ross Gallowait DipEng BSc CEng MIE
Matthew Horton DipEng MSc
Liam Henry CEng MIE
John Henchion BE
Stewart Irving CEng MRAES FIMC
John Kelleher BE
Joseph Kindregan BE CEng MInstE MIE
Martin Lohan BA BAI CEng MInstE MIE
Patrick McAulbain BSc MSc
John McQuillan MCIIBSE MIE
Robert Mahony BSc MEng MInstE MIE
Donal Murphy MIE
John Peelo BE CEng MIE MInstE
William Reddington BE MEngSCE
John Vicker DipEng CEng MIE
John R. Wormald CEng MInstE C Dip A F
Gerard Woods MIE PhD

Part-time Staff
Frank Bodkin
Michael Carew CEng MInstE MIE
Noel Carroll
T.W. Churcher TEng (CEI) MIQA
Ciaran Coleman
Malachy Coleman
James Coll BE
Teresa Cooke
Seamus Costello
William J. Costello DipEng CEng MInstE MIE AMB
James Daly BE CEng MIE
Seán Davitt BE CEng MIE
Thomas Dinnigan C&G
Ken Duggan
Patrick Duggagh BE CEng FIEI
Thomas Fitzgerald
John Horgan TEng (CEI) MInstE TE
Michael Kelly
Stephen Lawless DipEng BSc
Raymond Loughran
Barry McGinnell DipEng BSc
Frank McKeon
Edward Mullarkey BE
Thaddeus Murray
Paul O'Brien
Desmond P. O'Loughlin
Michael O'Reilly BA BAI
Thomas Power
S.C. Rossiter
Anthony Sayers
Alan Sullivan
Stephen Tiernan DipEng BSc
Margaret Whelan DipEngBSc
Francis White

External Examiners
Michael Buckley BE CEng MCIBSE MSHRAE
Joseph Cox BE CEng MIE
Prof. T.R. Crossley BSc (Eng) PhD CEng FIA
Stephen Hodgson BSc CEng MCIBSE
Prof G Hitchings MSc PhD CEng MInstE MIE
Christian Lund BE MIE
Eamon O'Brien FICIBSE MSHRAE MInstE
Prof. A. Jack CEng MIE
Patrick Doyle CEng MIE
Edward Fallon BE CEng MInstE
Patrick Fortune MCIBS
Ross Gallowait DipEng BSc CEng MIE
Matthew Horton DipEng MSc
Liam Henry CEng MIE
John Henchion BE
Stewart Irving CEng MRAES FIMC
John Kelleher BE
Joseph Kindregan BE CEng MInstE MIE
Martin Lohan BA BAI CEng MInstE MIE
Patrick McAulbain BSc MSc
John McQuillan MCIIBSE MIE
Robert Mahony BSc MEng MInstE MIE
Donal Murphy MIE
John Peelo BE CEng MIE MInstE
William Reddington BE MEngSCE
John Vicker DipEng CEng MIE
John R. Wormald CEng MInstE C Dip A F
Gerard Woods MIE PhD

Department of Science, Mathematics &
General Studies

Head of Department: Jeremiah Cotter MSc
Assistant Heads:
Gerard Lawlor MSc
Patrick J. McCormack PhD MInstP
Apprenticeship Area: Phillip Murray BE MAI MPA
MIE

Head of Computing: John Turner BE MEngSc
SCHOOL OF TRADES

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

Department of Transport Engineering
Head of Department: Dominick Tuite (Eng) MIEI

Assistant Heads:
Kenneth Bracken SIMI TechDip MAMIE IRTE
William Brazil TEng(CEI) AM ProdE

Whole-time Staff
Sean Brennan SIMI TechDip AMIE IRTE
Alan Suchowolski FTC (C&G)
George A. Campbell AMIE IRTE (Eng)
Thomas Corrigan FTC (C&G) AFSLAET TEng(CEI)
Martin Egan SIMI TechDip DipSoc & EconEx
Peter Fahy Eng IProdE IProdE
Enda Fagan FTC (C&G) SIMI TechDip
Colm Garvey MSc PGCE DipAfAFIMA
Alan Harbrion SIMI TechDip
John Kelleher
T.J. Kernan FTC (C&G) SIMT Tech Dip
Michael Kelly SIMI TechDip FMH
Paul Lalar CGIA IRTE IEng MIMI LCG SIMI TechDip
James McCauley SIMI TechDip
Edward Nolan SIMI TechDip
Alexander O’Halloran SIMI TechDip
Paul Purcell SIMI TechDip MIMI
John Short SIMI TechDip MIMI
Garrett Sinnott SIMI TechDip AMMI
Paul Wearan SIMI TechDip FTC (C&G)
John Wilcox SIMI TechDip

Part-time Staff
Declan Allen SIMI TechDip AMMI
Joseph Allidime IRTE
Denis Barry LME
James Bassett SIMI TechDip
Gerry Bracken BSc
John Byron
Hugh Caffery BI
William Carroll BComm LDip
Joseph Clarke MSLAET
Gerald Clifford FAA FDL Adv. Instructor Rating
Patrick Coffey FTC ATIC
Derek Colley
Jarlath Coneney LME, FBIS
P. Cooke
William Crowley AME
Frances Curran MIMI
Damiem Donlon
John Dooley
Branding Downey LME
Thomas Dunphy
Charles Duggan MIMI
Joseph Elliott
Thomas Farrell SIMI TechDip
D. Fitzsimons
M. Forde AMEMSLAT
D. Geraghty
Timothy Giblin MIMI FTC (C&G)

Paul Gorry AME
John Grey ATIC
Sean Guitke DipMIM
Michael Hall BA HDip
Ambrose Jameson LME
Donal Joyce
Peter Kelly ACE
F. Keoghan
James Keyes
David Kingston LME
Gerard McCann AME
Francis McGrane SIMI TechDip AMMI
Patrick Maguire AME
Kenneth Martin
Brendan Meehan BCom
Lackman Mehta SIMI TechDip
Noel Minihan LME TEng (CEI)
Michael Mooney RL
Peter Mulcahy
Michael Mulcahy
David Murray ROL
Brendan Murphy LME
Thomas Murphy SIMI TechDip APlantE, LAE, LCG, AMMI, NCC
Thomas Nugent AME
John O’Gorman MIMI MIMIS
Francis O’Neill
Edward O’Reilly LME
Denis O’Shea LME
Anthony O’Sullivan
Lorcan O’Toole
John Parker LME
Thomas Ridgeway LME
Michael Ryan MIMI IEng IRTE
Edwin Ryanhart
Noel Sheehan LME
Colin Sheridan SIMI TechDip AMMI
D.P. Slattery LIC NAV
Robert Spencer AME
J.B. Thompson C.P.L.
Desmond Walsh LME

External Examiners
Brendan McMahon BSc IEng, FMI AMMeche
Jonathan Parkins BEd(Hons) IEng LAE FMI IRTE

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

Whole-time Staff
Desmond Aungier
David Cox
Martin Dunne FTC (C&G)
Peter Flood
Bernard Kelly
William Kelly
John Lawlor
Denis McGrath LCG TEng (CEI) AMIProdE
James McKenna TEng (CEI) AMIProdE
William Mowlds
Charles B O’Brien IEng MlProdE
Michael R. O’Kelly C&G Tech
Clare Smith
James Vahey MTD

Part-time Staff
John Adams
Wm. Bergin
Peter Deane
John Fenlon
John F. Fitzgerald
Denis Mahoney
Michael O’Hehir
Graham Robinson
Leslie Smith
Alan Stewart

SCHOOL OF CONSTRUCTION TRADES

Head of School: Joseph Bernie IEng MIMechE

Department of Building Trades ‘A’
Head of Department: Vacant
Assistant Heads:
Joseph Lawlor BA HDipEd FBID
Frederick Hosford Final C&G AdvCert

Whole-time Staff
Martin Brennan C&G AdvCert
Patrick Colgan C&G AdvCert
James P. Doyle C&G FTC LCG
John Kane FTC C&G FTC
William Lace C&G FTC LCG
Gerard McNamara C&G AdvCert
Patrick Mulligan FTC AdvCert
Patrick McNally C&G FTC
Martin Sneyd FTC C&G FTC LCG DipIntDes

Part-time Staff
John Davis FTC FTC
John Duffy C&G FTC
George Monks C&G FTC FTC
Andrew O’Kelly BSc ARCIS - Thomas O’Reilly

External Examiners
Owen Lewis BSc Tech MSc FRIAI
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
Martin Carragher MinstCert
Andrew Dunne FTC (C&G)
William Edwards C&G
Aidan Halpin 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)
Robert McShane FTC (C&G) HTC
Peter Murphy FTC (C&G)
Dermot Russell FTC (C&G) MCIQO
James S. Stewart FTC (C&G)
Thomas Tully (C&G)
Part-time Staff
P.J. Byrne
Philip Cully
John Fitzgerald
Andrew O'Kelly

External Examiners
John Gillian
Patrick Walsh MCIOB Barrister-at-Law

Department of Metal Fabrication and Plumbing
Head of Department: Vacant
Assistant Heads:
Charles J. Hurley MIEI
Seamus Murnan ENG FIOPI MIEI Sen A Weld

Whole-time Staff
Duncan Beveridge Final C&G
Patrick Carpenter FTC (C&G)
Thomas Colley Final C&G Tech MIP
Derek Cummins C&G Tech
Edward Donoghue Final C&G ENG MIEI
Daniel Gahan Final C&G
Brian Gilbert Final C&G
William Jackson Final C&G Tech
Denis Lynch Adv C&G MIBF EngTech
Gabriel McGee Final C&G
Michael McKeeagh Final C&G Tech MIP
Paul McMullen Final C&G
James McSweeney Final C&G ENG MIEI
Nicholas Murray Final C&G
Michael Nicholson C&G Tech
Seamus O'Connell Final C&G
Paul Sherlock Final C&G Tech
John Smartt Eng Tech MIP LCG
Joseph K Walsh FTC C&G MInstSME

Part-time Staff
Seamus Dowling
Michael Cleesin
Peter Grainger
Michael Kinsella
Joseph Martin
John Nolan
Noel Power

External Examiners
Raymond Clinton MCIBSE
Patrick Sheridan BE CEng MIEI

SCHOOL OF PRINTING AND GRAPHIC COMMUNICATIONS
Head: J P Brian Kennedy BA FTC (C&G) MIOP LCG
Assistant Head: John M. Foley BA (Econ) MIOP FTC (C&G) LCG

Whole-time Staff
John Bennett BA FTC (C&G) FTC (design) LCG
Noel Bright ACC (C&G)
Kenneth Devitt ACC (C&G) AP&Ed CPtg Tech
Peter A. Foley FTC (C&G) LCG
Michael Grehan FTC (C&G) MIOP BComm
Ronald Hamilton BDes NCAD
Terence Farrelly-Smith (Temp Post)
Edward Horan ACC (C&G)
Padraig O'Dalaigh BA FTC (C&G) TTG
Vincent O'Leary ACC (C&G)
Kenneth Richards Final C&G

Part-time Staff
Anthony Barron Dip in PTech
Michael Berman PhD
Donal Casey
Patrick Dolan
Liam Donnelly
Diarmaid Doorly BL
Joseph Faigan CC (C&G)
Eileen Farmer DTIP
Philip Howlin ACA
Joseph Lynch
Terence McCormac
John McCulloch BDes NCAD
Stanley McDonald FTC (C&G)
Roger McGuinness
Anton Mazer MSDI
J. O'Connor BDes NCAD
Joseph Reddin FTC (C&G) LCG
Paul Rowe Cert PrintTech
Frederick Snowe ACC (C&G)
Brendan Somers
Anthony Thorsby ACC (C&G)

External Examiners
Raymond Bannon MA GradlOP CertEd HND
Walter Bunaidi MCSD MSDI
Lesley Heath BEd (Hons)
James Kirwan

COLLEGE ADMINISTRATION
Secretary/Registrar
Michael J. Marmane BComm DPA MACRA

Account Office
Philemona Kenna

Examinations Office
Deirdre Corcoran

Registrations/Admissions Office
Liam Cooke ACDSDBS MACRA

Building Maintenance Supervisor
Vacant

INDUSTRIAL LIASION
Head of ILO Office
Dr. Patk. McCormack

Head of Timber Technology Centre
Martin Carragher

Head of Building Information Centre
Eamon Buckley

CHAPLAINS
Catholic - Rev. Brendan Kearney SJ
Rev. Michael Martin OFM
Rev. Michael Foley SS CC

Church of Ireland - Rev. Nigel Dunne

Methodist - Rev. Kenneth Lindsey

Presbyterian - Rev. A.V. Martin

PHYSICAL EDUCATION
Michael Whelan AArts BSc MSc

LIBRARIAN
Peter Cahalane BA DipLibStud

Mr. Michael O'Donnell
Principal of the College

Mr. Matt Farrell
Vice Principal (Craft & Trades)

Mr. Michael Murphy
Vice-Principal Engineering/Technology

Mr. Gerard Walker
Architecture, Surveying & Building

Mr. Joe Bernie
Head of School Construction Trades
Mr. Jack O’Keefe
Architecture & Town Planning Department

Mr. Brian Kennedy
Printing & Graphic Communications Dept.

Mr. Dominick Tuite
Transport Engineering Department

Dr. Patrick McCormack
Industrial Liaison Officer

Mr. Eanna de Burca
Surveying & Building Department

Mr. Derry Cotter
Maths, Science & General Studies Department

Mr. Patrick Kelly
Construction Trades Department

Mr. Peter Cahalane
College Librarian

Mr. Oliver McNulty
Engineering Technology Department

Mr. Robert Eustace
Engineering Trades Department

Mr. Michael Murnane
College Secretary/Registrar
FULL TIME COURSES

CITY OF DUBLIN
VOCATIONAL EDUCATION COMMITTEE
DUBLIN INSTITUTE OF TECHNOLOGY

COLLEGE OF TECHNOLOGY
BOLTON STREET
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</tr>
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### Degree Level Courses in CAO List

<table>
<thead>
<tr>
<th>Subject</th>
<th>CAO Code</th>
<th>Page</th>
</tr>
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<tbody>
<tr>
<td>Architecture</td>
<td>FT01</td>
<td>2.24</td>
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<td>Property Economics</td>
<td>FT02</td>
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</tr>
<tr>
<td>Building Services Engineering</td>
<td>FT04</td>
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</tr>
<tr>
<td>Mechanical Engineering</td>
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</tr>
<tr>
<td>Production Engineering</td>
<td>FT04</td>
<td>2.41</td>
</tr>
<tr>
<td>Structural Engineering</td>
<td>FT04</td>
<td>2.43</td>
</tr>
</tbody>
</table>

### College Degree Level Courses in CAS List

<table>
<thead>
<tr>
<th>Subject</th>
<th>CAO Code</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture - Diploma/Degree</td>
<td>FT01</td>
<td>2.24</td>
</tr>
<tr>
<td>Property Economics (Valuation Surveying)</td>
<td>FT02</td>
<td>2.28</td>
</tr>
<tr>
<td>Construction Economics (Quantity Surveying)</td>
<td>FT03</td>
<td>2.29</td>
</tr>
<tr>
<td>Building Services Engineering</td>
<td>FT04</td>
<td>2.38</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>FT04</td>
<td>2.39</td>
</tr>
<tr>
<td>Production Engineering</td>
<td>FT04</td>
<td>2.41</td>
</tr>
<tr>
<td>Structural Engineering</td>
<td>FT04</td>
<td>2.43</td>
</tr>
</tbody>
</table>
CERTIFICATE, DIPLOMA AND OTHER COURSES PROCESSED THROUGH THE CAS LIST

<table>
<thead>
<tr>
<th>College Course Code</th>
<th>Course Description</th>
<th>CAS Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>B102</td>
<td>Architectural Technician Diploma</td>
<td>DT102</td>
</tr>
<tr>
<td>B114</td>
<td>Construction Technician Certificate and Diploma</td>
<td>DT114</td>
</tr>
<tr>
<td>B115</td>
<td>Geo-Surveying Technician Certificate and Diploma</td>
<td>DT115</td>
</tr>
<tr>
<td>B116</td>
<td>Auctioneering Valuation and Estate Agency Certificate and Diploma</td>
<td>DT116</td>
</tr>
<tr>
<td>B120</td>
<td>Preliminary Engineering Course</td>
<td>DT120</td>
</tr>
<tr>
<td>B126</td>
<td>Civil Engineering Technician Certificate and Diploma</td>
<td>DT126</td>
</tr>
<tr>
<td>B127</td>
<td>Building Services Engineering Technician Certificate and Diploma</td>
<td>DT127</td>
</tr>
<tr>
<td>B128</td>
<td>Mechanical Engineering Technician Certificate and Diploma</td>
<td>DT128</td>
</tr>
<tr>
<td>B130</td>
<td>Technician Certificate in Printing and Diploma in Printing Management</td>
<td>DT130</td>
</tr>
<tr>
<td>B131</td>
<td>Graphic Reproduction Technology Diploma</td>
<td>DT131</td>
</tr>
<tr>
<td>B150</td>
<td>Technician Certificate in Transport Engineering/Diploma in Motor Industry Management</td>
<td>DT150</td>
</tr>
<tr>
<td>B171</td>
<td>Buildings Maintenance Technician Certificate</td>
<td>DT171</td>
</tr>
</tbody>
</table>

Location Map

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CALENDAR

For Applicants to College Wholtime Courses in the 1992/93 Session

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 1st</td>
<td>Closing date for receipt of applications from EC applicants by CAO/CAS at ordinary fee of £17. Overseas applicants must apply by 15th December 1991 and pay a fee of £36.</td>
</tr>
<tr>
<td>March 31st</td>
<td>Closing date for EC late applicants at £26 fee. Latest date for completing course choice columns on page 2 of CAO/CAS application form, if choice has been deferred when submitting application form.</td>
</tr>
<tr>
<td>August 1st</td>
<td>Final closing date for EC late applicants for College courses paying £40 fee. Final date for availing of change of mind facility in respect of course choices where allowed.</td>
</tr>
<tr>
<td>August 24th</td>
<td>Expected date for issue of First Round offers.</td>
</tr>
<tr>
<td>September 4th</td>
<td>Expected final date for acceptance of First Round offers.</td>
</tr>
<tr>
<td>September 7th</td>
<td>Expected date for issue of Second Round Offers.</td>
</tr>
<tr>
<td>September 14th</td>
<td>Courses are expected to commence during the week of September 14.</td>
</tr>
</tbody>
</table>

NOTE:
(i) Applicants should read carefully the CAO/CAS Joint Handbook 1992 before submitting an application.
(ii) Applicants note that late applications are not accepted for courses FT01 and DT01. Neither may these be introduced into an application for the first time after February 1st 1992.
(iii) The information in this booklet is intended as a guide for persons seeking admission to the College and shall not be deemed to constitute a contract on the terms thereof between the College and a student or any third party. The College reserves the right to change or modify any of the courses or information relating to them or other aspects as outlined in this publication without prior notice.
FOREWORD
BY THE PRINCIPAL

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

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

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

Michael O'Donnell

APPLICATION PROCEDURES FOR 1992 ENTRY

Significant changes were 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.

The CAO (Central Applications Office) had been established in 1976 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 in 1990 known as CAS (Central Applications Service) for the purpose of dealing with applications to the Irish third-level technological Colleges on a centralised basis. Its membership is representative of the six Dublin Institute of Technology (DIT) Colleges, the nine Regional Technical Colleges, Limerick College of Art, Commerce and Technology (CoACT), and the Crawford College of Art and Design.

Joint CAO/CAS Application Form

The CAO and CAS organisations entered into an arrangement in 1990 whereby applicants, using a single application form, may choose from the entire range of courses in the CAO and CAS systems. There are two sections on the application form for the 1992 entry 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 ten courses in order of preference from the courses included under the title 'CAS List Diploma/Certificate/Other'. This includes all wholetime Certificate, Diploma and non degree courses offered by the DIT and other technological colleges.

The joint CAO/CAS applications system is administered from the CAOs premises at Tower House, Eglington Street, Galway. Copies of the 1992 CAO/CAS Handbook which provides all relevant information about the CAO/CAS joint application system and the courses which are included in it are available on request as are Application Forms.
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>FT01 ARCHDEG</td>
<td>Architecture</td>
<td>5</td>
</tr>
<tr>
<td>B110</td>
<td>FT03 PECDEG</td>
<td>Property Economics</td>
<td>4</td>
</tr>
<tr>
<td>B111</td>
<td>FT02 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>*FT04 ENGDEG</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 as far as possible 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 in the College.

Further information about the Joint CAO/CAS Application System for 1992 entry are given in the CAO/CAS Handbook and on the Application Form, both of which are available from:

CAO / CAS,
Tower House,
Eglinton Street,
Galway.
Tel: 091 63318/63269
Fax: 091 62344
Aplicants are ranked in order of educational score merit in accordance with the points system shown below, allocated to the results of six subjects obtained in one Leaving Certificate examination which will yield the highest score. If an applicant presents two or more Leaving Certificate examinations the one yielding the best score will be credited. Generally demand exceeds the number of places available and qualifications well above the minimum are required.

(i) In the case of the Architectural course FT01/B101 applicants are required to take an aptitude test in March/April. Applicants who demonstrate a particular suitability in this test are invited to an interview assessment. A maximum of 100 points are awarded for the applicant's performance in the aptitude test and up to a further 100 points for the interview assessment. The results of the aptitude test and the interview assessment are combined with the total educational points scored in the six subjects as specified to produce an overall rating.

(ii) In the case of the professional/degree level courses in Surveying and Engineering (i.e. FT02/B111, FT03/B110, FT04/B121-124) the selection is based on the educational score in six subjects as already described.

## Points System Applied to Computing Educational Scores in Relation to Courses in Both the CAO and CAS Lists in 1992

<table>
<thead>
<tr>
<th>Leaving Certificate Grade</th>
<th>Points for Higher Levels</th>
<th>Points for Ordinary Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>100</td>
<td>60</td>
</tr>
<tr>
<td>A2</td>
<td>90</td>
<td>50</td>
</tr>
<tr>
<td>B1</td>
<td>85</td>
<td>45</td>
</tr>
<tr>
<td>B2</td>
<td>80</td>
<td>40</td>
</tr>
<tr>
<td>B3</td>
<td>75</td>
<td>35</td>
</tr>
<tr>
<td>C1</td>
<td>70</td>
<td>30</td>
</tr>
<tr>
<td>C2</td>
<td>65</td>
<td>25</td>
</tr>
<tr>
<td>C3</td>
<td>60</td>
<td>20</td>
</tr>
<tr>
<td>D1</td>
<td>55</td>
<td>15</td>
</tr>
<tr>
<td>D2</td>
<td>50</td>
<td>10</td>
</tr>
<tr>
<td>D3</td>
<td>45</td>
<td>5</td>
</tr>
</tbody>
</table>

Note: (a) The six best results in one Leaving Certificate examination will be counted for points computation.
(b) The results of only one sitting of the Leaving Certificate Examination will be counted.
QUALIFICATIONS OTHER THAN THE IRISH DEPARTMENT OF EDUCATION LEAVING CERTIFICATE

The College gives consideration to qualifications other than the Leaving Certificate as meeting the entry requirements for its courses (such as the GCE or other qualification of equivalent standard). In accordance with a decision already announced, the NUI Matriculation is not acceptable as an appropriate DIT entry qualification since 1990.

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

Grades A, B and C at GCE Advanced Level meet the higher level paper requirements for degree courses. Grades D and E at GCE Advanced Level and Grades A, B and C at Ordinary Level GCSE are regarded as equivalent to ordinary Leaving Certificate passes.

EDUCATIONAL REQUIREMENTS AND SELECTION PROCEDURES FOR ENTRY INTO THE FIRST YEAR OF COLLEGE CERTIFICATE, DIPLOMA AND OTHER NON-DEGREE COURSES IN 1992

Educational Requirements

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

Selection Procedures

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

(i) In the case of the Architectural Technician Course DT102, applicants are required to take an aptitude test in March / April. Applicants who demonstrate a particular suitability in this test are invited to an interview assessment. A maximum of 100 points are awarded for the applicants performance in the aptitude test and up to a further 100 points for the interview assessment. The results of the aptitude test and the interview assessment are combined with the educational points scored in the best six Leaving Certificate subjects (or five if only that number is presented) to produce an overall rating.

(ii) In the case of all other courses (i.e. DT114, DT115, DT116, DT120, DT126, DT127, DT128, DT130, DT150 and DT171) the selection is based on the educational points scored in the best six subjects in the Leaving Certificate (or five subjects if only five are presented).

Note: Anyone interested in the College’s 1991 educational requirements and selection procedures should consult the 1991/92 Fulltime course booklet.

Special Category Applicants

The following types of applicants are processed as special cases.

(a) Mature Applicants: A mature student who is 24 years of age or over at the time of enrolment and who does not meet the normal minimum admission requirements may be considered for admission to appropriate courses after attending in person for interview and satisfying the College Authorities as to his/her ability to benefit from the proposed course. Such applicants may be required to sit and pass an entrance or suitability test before admission. The Application Form should clearly indicate “Mature Applicant” in the space provided on page 3.

(b) Overseas Students: Overseas students seeking admission to the College should apply to CAO/CAS not later than 15th December, 1991 using the standard application form available on request. When completed this should be forwarded with documentary evidence of qualifications in English (translations should be certified by an appropriate authority) showing subjects passed, levels and grades obtained.

Because of the large number of applications received each year from qualified Irish applicants, and the limited number of places available, the College regrets that it may have to limit admission of overseas applicants to the small quota of places reserved for those who are sponsored by official agencies linked to Ireland’s development aid programme.
(c) **Trade Students:** Students holding the Senior Trade Certificate of the Department of Education with one endorsement in Mathematics or a science subject satisfy the minimum eligibility requirements for courses in the DIT Colleges which specify a pass in five subjects in Leaving Certificate Examination as the entrance requirement. Students holding this Certificate with three endorsements in academic subjects are eligible for consideration for entry into related professional/degree level courses provided that they also meet any special entry requirements (e.g. Higher Level Mathematics for Engineering courses). Where endorsements subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education is an acceptable equivalent.

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

Applicants seeking admission into the Second or subsequent years should contact the College or DIT Admissions Office for a special application form and further information about the procedures. The closing date for such applications is 1st May, 1992.

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

(e) **Applicants Seeking Exemptions from one or more years of a College Course:** The general procedure is as in (d). Such applicants should ask their former College to forward in confidence to the College Admissions Office, a full transcript of previous attainments which it is claimed will justify the exemptions sought. The application will not be processed until this is received.

(f) **Transfer/Re-Entry Applications:** Current students who wish to transfer from one course to another within the College or previous wholetime students who wish to re-enter the College into a year other than the First Year should make a written application to the College Admissions Office (Room 315), stating clearly what is being sought and on what basis.

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

### OFFERS AND ACCEPTANCE IN 1992

Applicants will be assessed in accordance with the procedures already indicated and offers of places will be issued simultaneously, where appropriate, in respect of the CAO List and the CAS List. While it is possible that an applicant may receive two 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.

#### Acceptance Procedure

The acceptance procedure involves completing the appropriate section of the Offer Notice and returning it by the specified date after it has been duly stamped by a Bank to confirm that the required acceptance deposit has been paid. Further information about the Offer and Acceptance procedure is given on page 5 of the CAO/CAS Joint Handbook 1992.

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

Students attending for registration are required to present the following documentation:

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

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

The acceptance deposit is transferrable if paid in respect of an offer made in an earlier round to that in a later round, even between different colleges or institutions (provided of course they are involved with the CAO/CAS application system).

#### Deferral of Entry

If an applicant is offered a place on a course, it may be possible to defer entry for one year. An applicant wishing to avail of this facility should write as soon as possible after receiving the offer to the DIT Admissions Officer, 14 Upper Mount Street, Dublin 2, stating the reasons for seeking a deferral for one year. The letter should be received at the DIT Admissions Office at least two days before the closing date for acceptance of the offer.
FEES, GRANTS AND SCHOLARSHIPS

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

FEES FOR ACADEMIC SESSION 1991/92

<table>
<thead>
<tr>
<th>(a) Irish and European Community Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wholetime Diploma:</td>
</tr>
<tr>
<td>B101; B121; B122; B123; B124; B125</td>
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<td>Wholetime Degree Courses:</td>
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<tr>
<td>B110; B111</td>
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<tr>
<td>Wholetime Technician Certificate Courses:</td>
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<tr>
<td>B114; B115; B116; B120; B126; B127; B128; B130;</td>
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<td>Diploma Courses:</td>
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<td>B131; B150</td>
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<tr>
<td>Overseas Students from Non-European Community Countries</td>
</tr>
<tr>
<td>Wholetime courses:</td>
</tr>
</tbody>
</table>

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

Note: Fees are likely to be revised in respect of the 1992/93 session.

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 Diploma/Degree awards which do not benefit from ESF Training Grants may be eligible to apply to the Vocational Education Committee of the area where their parents or guardians normally reside for a VEC Scholarship. Information on eligibility conditions and application forms are available from the appropriate Vocational Education Committee.

Note: Both Local Authority Grants and VEC Scholarships are of the same value and an applicant is not entitled to hold both simultaneously.

(c) ESF Training Grants: ESF (European Social Fund) training grants may be available to Irish students aged over 16 years while they are pursuing certain two or three year courses provided their attendance record and general performance is satisfactory. These grants cover tuition fees and also provide for payment of a monthly allowance. The courses which are included in the scheme for the 1991/92 session are marked by a double asterisk (**) in the Table on page 2.10. For Session 1990/91, a grant of £15.19 per week (full attendance) was payable to students who travel or who could reasonably be expected to travel daily between their home and the College, or whose home is within 15 miles of the College. A grant of £38.14 per week (full attendance) was payable to other eligible students.

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

(f) BETA Scholarships: These are offered by the Engineering Graduates of the College to nominated students in the whole time degree level Engineering courses who achieve particularly a meritorious performance in the previous year of their course. The BETA Silver Medal is awarded to the outstanding Engineering degree graduate each session.
(g) Mclnerney Scholarships: To mark the seventy-fifth anniversary of its establishment and its close association with the College, the firm of Thomas Mclnerney & 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 may be 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 firm's building operations in Dublin this fund was established to assist students who on successful completion of the Construction Technician Diploma continue their studies in the College in preparation for the examinations of the Chartered Institute of Building. A scholarship of value up to £1,000 may be awarded to a student who achieves exceptional performance in years work and examinations in the Final year of the Diploma course and enrolls in the course leading to the CIOB examination.

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

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

AWARDS AND ACCREDITATION OF COURSES

All wholetime third-level courses conducted by the College (except the Preliminary Engineering Course B120) lead to Dublin Institute of Technology (DIT) Diploma or Certificate awards as appropriate. The majority of these awards are of long standing and are widely recognised by employers, professional bodies and academic institutions in Ireland and abroad. The courses are reviewed and assessed regularly and their standards are vouched for each year by a distinguished panel of external examiners, some of whom are drawn from other countries to ensure the international recognition of the awards.

In relation to a number of the courses there is a system of parallel awards available to those graduating. In 1976 the City of Dublin Vocational Education Committee and the University of Dublin entered into a formal agreement by which degree awards of the University with Honours classifications are available to graduates of the College who successfully complete appropriate courses in Architecture, Engineering and Surveying. Details of these awards are given under the individual course entries.

Since 1972 National Certificate and Diploma awards have been made to those graduating from the Building Services, Civil, and Mechanical Engineering Technician programmes by the National Council for Educational Awards (N.C.E.A.). More recently similar arrangements were made in relation to the Geo-Surveying, Auctioneering Valuation and Estate Agency, Buildings Maintenance, Printing, and Graphic Reproduction courses.

The College attaches high priority to ensure that its graduates meet the academic requirements of the appropriate professional bodies and periodically it receives visitations from them to accredit the various course programmes.
STUDENT ACTIVITIES, FACILITIES AND SERVICES

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

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

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

Other services provided by the Union include assisting members in finding suitable accommodation, organising lunchtime concerts, discos and other social events and promoting College clubs and societies.

Full time Officers for 1991/1992 session
President: Jeremy Waring
Deputy President: Douglas Scully

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

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

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

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

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

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

Hours of Opening
Term Time: Monday — Thursday 9.30 am — 9.30 pm
Friday 9.30 am — 5.30 pm
Saturday 9.30 am — 1.00 pm

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

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

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

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

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

Societies
Architectural Students Association, Auctioneers and Valuers, Business, Cârdeas, Construction Technician, Christian, Engineering Technician, Film, Geo Surveying, Green Society, Motor Industry Management, Photographic, Printing, Property Economics, Quantity Surveyors, Students Against Destruction of Dublin (SADD), Student Engineers (SSE), Engineering Technicians (SETS), Third World, St. Vincent de Paul and Romanian Response.

Information on the wholetime courses offered by the College are on the pages that follow.

For further information contact

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

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

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

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

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

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

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

College Secretary/Registrar
Mr. Michael Marnane

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

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

Details of part-time and craft apprenticeship courses are given in another section or publication.
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, enhance their studies and their ability to work individually, or as members of a team.

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

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

Course of Study

First Year

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. Some graduates spend a time abroad to gain wider and more varied design experience.

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

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

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

Course of Study
First Year

Second Year

Third Year

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

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. Graduates may be employed as valuers, estate agents, property advisors, developers and planners. The course provides an education in the financial, legal, planning and construction aspects of property in the context of the investment market in general and it provides students with a thorough understanding of the economic functioning of the built environment.

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

Course of Study

First Year

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

Third Year
Maintenance of Buildings, Valuations, Urban Economics, Planning, 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).

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

Course of Study
First Year

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.

Construction Economists are concerned with the more detailed aspects of the construction and site development. They may specialise as quantity surveyors, in which case they analyse building designs for purposes of cost planning, detailed tendering and cost control. Alternatively they may practice, as building managers with responsibility for the organisation of contracts, for labour, materials, plant, and negotiations with main and subcontractors.

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.

Department in Charge
Surveying & Building Technology.

B114 CONSTRUCTION TECHNICIAN: CERTIFICATE/DIPLOMA

CAS Course Code DT114

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.

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

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

Department in Charge
Surveying & Building Technology.

GEO-SURVEYING TECHNICIAN: CERTIFICATE/DIPLOMA

CAS Course
Code DT115

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

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

Eligibility Requirements

First Year:
Leaving Certificate with passes in five subjects including Mathematics and English or an equivalent qualification. A modern continental language (especially German) is desirable to facilitate subsequent movement to other EC countries for further study or work experience.

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
Graruates 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)

Diplomates with appropriate experience are eligible for membership of the Irish Institution of Surveyors.

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

Career Opportunities
Graruates 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. Flexibility and ability to respond to changing technology enhance career prospects.

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

Department in Charge
Surveying and Building Technology

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.

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

Course of Study

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

Second Year

Third Year
Valuations, Building Construction, Management Accounting, Marketing, and a Feasibility Study.
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 Diploma course meets the academic requirements of the Irish Auctioneers and Valuers Institute (IAVI) and is recognised by the Institute of Professional Auctioneers and Valuers (IPAV). These are professional bodies in the field of Auctioneering and Estate Agency in the Republic of Ireland. The Diploma is also recognised by the Society of Chartered Surveyors in the Republic of Ireland as giving exemption from all except their final examinations. In addition the Diploma is recognised by the Incorporated Society of Valuers and Auctioneers in the UK as giving exemption from its Part II examination.

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.

Department in Charge
Surveying & Building Technology

B120
PRELIMINARY ENGINEERING

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

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

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

Examinations and Other Requirements
Students are required to:

(a) take College examinations at the end of each session.

(b) present laboratory notebooks and project work reports to the satisfaction of the college.

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

Department in Charge
Engineering Technology.
B121 BUILDING SERVICES ENGINEERING: DIPLOMA/DEGREE

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.

Eligibility Requirements

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

Course of Study

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

Second Year

Third Year

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

Awards

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

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

Career Opportunities

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

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

Department in Charge
Engineering Technology

B122 MECHANICAL ENGINEERING: DIPLOMA/DEGREE

CAO Course Code FT04

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

Eligibility Requirements

The minimum educational qualifications required for entry are the Leaving Certificate in six subjects with Grade C or higher on higher level papers in Mathematics and a suitable Science subject (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathe
Course of Study

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

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.

Department in Charge
Engineering Technology

PRODUCTION ENGINEERING: DIPLOMA/DEGREE

CAO Course Code: FT04

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

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

Course of Study

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

Second Year
Third Year

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

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

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

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

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

Department in Charge
Engineering Technology

B124
STRUCTURAL ENGINEERING: DIPLOMA/DEGREE

CAO Course Code FT04

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

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

Students on a site visit.
Course of Study
First Year
Mathematics, Mechanics, Materials Science, Physics, Engineering Technology, Engineering Drawing, Communications and Social Studies, Workshop, Laboratory Work, Computing and German.

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

Third Year

Fourth Year

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

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

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

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

Department in Charge
Engineering Technology.

B126
CIVIL ENGINEERING TECHNICIAN: CERTIFICATE AND DIPLOMA

CAS Course
Code DT126

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

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

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

Course of Study
First Year

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, German and Computing.

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

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

Recognition by Professional Bodies
Those who have successfully completed the Certificate Stage of the course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level requirements 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.

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

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

Course of Study
First Year

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

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 with the design and installation of all types of building services such as heating, ventilation, air-conditioning, water and electrical services. They are also involved with the drafting, planning and management of projects and the maintenance of plant and equipment.

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

Department in Charge
Engineering Technology.

MECHANICAL ENGINEERING TECHNICIAN:
CERTIFICATE AND DIPLOMA

CAS Course Code DT128

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

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

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

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

Course of Study
First Year

Second Year

Third Year — Common Subjects:
Mathematics, Electrotechnology and Electronics, Management Studies and Computing.

Manufacturing Option:

Process Option:

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.

**Department in Charge**
Engineering Technology.

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**B130 CAS Course**
**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 in Printing after two years of study and to a Diploma Award in Printing Management after a further year's study.

**Eligibility Requirements**

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

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

**Course of Study**
The following subjects are included in the 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)

Career Opportunities
Graduates to date have found positions in printing, packaging, publishing or advertising firms working in the following areas: Estimating, Production Planning, Cost Accountancy, Marketing, Quality Management, Customer Services and Technical Liaison.

Department in Charge
Printing and Graphic Communications.

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

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

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

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

Course of Study

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 should also be capable of setting up and running their own studios.

Department in Charge
Printing and Graphic Communications.

B150

TECHNICIAN CERTIFICATE IN TRANSPORT ENGINEERING/DIPLOMA IN MOTOR INDUSTRY MANAGEMENT

CAS Course Code DT150
This whole-time course prepares students for entry into the many and varied responsible positions in the Motor Industry. The course leads to the award of a Transport Engineering Technician Certificate at the end of two years study and to the award of the Diploma in Motor Industry Management at the end of a further year’s study.

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

Course of Study
First Year

Second Year
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.

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

Course of Study
First Year

Second Year

Awards
Students who successfully complete the course are eligible for the following awards:
(a) Buildings Maintenance Technician Certificate (Dublin Institute of Technology).

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

Department in Charge
Construction Trades.
APPRENTICE COURSES

CITY OF DUBLIN
VOCATIONAL EDUCATION COMMITTEE

DUBLIN INSTITUTE
OF TECHNOLOGY

COLLEGE OF TECHNOLOGY
BOLTON STREET
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INFORMATION ABOUT APPRENTICESHIP

Introduction
The College has had a major involvement and commitment to apprenticeship education and training since it was opened in 1911 and over the years it has played an important role in its development. In the 1990/91 session a total of more than 3300 apprentices were enrolled in the College pursuing one of 20 different trades in the Construction, Engineering or Printing designations.

The following College Departments are involved in the provision of apprenticeship courses:

- Building Trades
- Metal Fabrication and Plumbing
- Engineering Trades
- Transport Engineering
- Printing and Graphic Communication

The overall apprenticeship activities in the different Colleges of Dublin Institute of Technology (DIT) are co-ordinated and monitored by an Apprenticeship Education Board which reports directly to the DIT Governing Body. This Board is chaired by Mr. Matt Farrell, Vice Principal of the College, and the other members include the Heads of Schools and Departments involved in the apprenticeship area in the different DIT Colleges as well as some elected or co-opted teaching staff members.

Amongst the highlights in the calendar of the apprenticeship area each year are the National Apprenticeship Competitions. Normally the College hosts some ten finals annually for different trade specialisations on behalf of the Department of Education and the candidates are likely to include representatives from RTCs and other centres as well as from this College. The overall winner is eligible to receive a silver medal as well as special consideration for selection for the national team which represents Ireland in the international Youth Skills Olympics. These prestigious competitions are normally held every second year in different parts of the world and Irish apprentices have performed very well in them to date showing that the standards of craftsmanship of the skilled young Irish workforce compare favourably with those in the more advanced industrial countries.

Role of FAS
FAS, the National Training and Employment Authority, has been given special statutory responsibility by the Minister for Labour for monitoring and co-ordinating different aspects of apprenticeship. It operates a number of training centres which provide opportunities for ‘off the job’ training during the first year of apprenticeship and also makes arrangements with other training centres to provide similar facilities for selected apprentices during their first year. Part of the ‘off the job’ training programme involves attendance at a College. In the second and subsequent years of apprenticeship FAS monitor the training arrangements in industry and the release to attend colleges for educational and other aspects.

In 1989 FAS undertook a review of the existing apprenticeship arrangements and published a discussion document following extensive consultation with the different interests. This proposed a standards based apprenticeship system...
culminating in the National Craft Certificate for those who pass the stipulated tests and envisaged that in future full craft status would only be afforded to those holding this Certificate.

How to become an Apprentice
Those interested in becoming an apprentice should first check that they have the stipulated basic minimum educational qualifications at Group or Intermediate Certificate levels. They should then seek out a suitable employer having a vacancy for an apprentice in the trade chosen. While the responsibility for securing an apprenticeship rests with the individual or with his/her parents FAS may be able to assist and those interested should register at the nearest FAS office where further useful information may also be available.

College Courses for Apprentices
College courses for Apprentices are conducted on a Day-release or Block-release basis during which the apprentices are released from their employment on full pay. The 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 Science, Mathematics, Communications and Social Studies.

For those engaged in the Engineering or Construction industry, the preparation for the Junior Trade Certificate examination may be pursued in two ways:
(i) Apprentices undergoing ‘off-job’ training in an approved training centre during the first year of their apprenticeship, are released to attend Day-release or Block-release courses in the College during that period. The skill training course and the terminal test conducted by the Training Centre meets the requirements for the practical element of the Junior Trade Certificate examination and the College course prepares the students to take the remaining subjects of the examination.
(ii) Those apprentices who do not pursue ‘off-job’ training in a training centre are normally released from their employment to attend Day-release or Block release courses conducted by a College over a two-year period to prepare them for all elements of the Junior Trade Certificate examination.

Both categories of apprentices pursue a further two-year Day release or Block-release course of preparation for all elements of the Senior Trade Certificate examination of the Department of Education. The Senior course is conducted entirely at the College and the apprentices are released from their employment to enable them to attend.

For those apprentices employed in the Printing industry the College provides courses of education and training on a Block-release basis during their first three years of apprenticeship. The first year course of 23 weeks duration commences in January each year and the second and third year courses, each of 8 weeks duration, are conducted between September and December each year. Printing students sit for the Junior Trade Certificate examination at the end of the first year course and the Senior Trade Certificate examination at the end of the third year course.

Special evening courses may be conducted to assist those who wish to re-sit elements of the Senior examination in which they were unsuccessful.

Ladders to Higher Levels for Apprentices
Post-apprenticeship courses are provided by the college where a demand for these courses exists and thus opportunities are made available for students who are successful in the Senior Trade Certificate Examination to proceed to higher level studies. These include a number of craft-based technician courses which are specially designed for those with craft backgrounds. Details of these courses are provided in the College Prospectus or are available on request.

Students holding the Senior Trade Certificate of the Department of Education with one endorsement in mathematics or a science subject satisfy the minimum entrance requirements for courses in the DIT Colleges which specify a pass in five subjects in the Leaving Certificate Examination as the entrance requirement.

Students holding this Certificate with three endorsements in academic subjects are eligible for consideration for entry into related professional degree level courses provided that they also meet any special entry requirements (e.g. Higher Level Mathematics for Engineering courses). Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education or an equivalent qualification may be acceptable.

Admission Requirements
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 courses and is further of the opinion that the admission of persons not actually engaged in the trades would be not only of little benefit to them but might prejudicially affect the instruction of those for whom the courses have been organised.

Accordingly the College reserves the right to restrict enrolment in the trade practical courses to those persons who are actually employed in the several processes and operations of the trade. For admission to these courses proof of actual employment in the trade may be required as well as certificates to that effect from the employer, the official Trade Union for 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 — the National Training and Employment Authority — whether or not the apprentices are registered with that body.

National Craft Certificate (NCC)
The National Craft Certificate is awarded jointly by the Department of Education and FAS. It attests to the successful completion of the apprenticeship programme and may be a required qualification for Irish craftsmen who wish to find work at home or in other countries. It is also likely to become a compulsory requirement in the future for recognition as a craftsman in Ireland.

Requirements for the Award of NCC
To qualify for the award of a National Craft Certificate applicants must provide proof that they have:

(a) been registered with FAS (formerly AnCO).
(b) served the full period of apprenticeship
(c) completed the first year 'off-the-job' training course (may be waived in certain circumstances)
(d) attended the full educational release programme
(e) achieved a pass grade in the following:
   (i) First year assessment programme and terminal test (may be waived in certain circumstances)
   (ii) Department of Education Junior Trade Written Examination.
   (iii) Department of Education Senior Trade Certificate.

Application Procedure for NCC
Application forms and all necessary information can be obtained from:
Apprenticeship Services
N.C.C. Administration Section
FAS — The Training and Employment Authority
P.O. Box 456, 27-33 Upper Baggot St., Dublin 4.
Telephone:(01)-685777
BUILDING TRADES COURSES

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 prepare 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  
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 Examinations.

Entrance Requirements  
Apprenticeship to the trade.

D102B  
PLASTERWORK: Off-the-job  
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.

D105A  
PAINTING AND DECORATING: Day Release  
This course requires attendance on one day and one evening per week for the first and second year and one day per week thereafter. The course is designed to 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  
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.
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.

D111B CABINETMAKING/CHAIRMAKING: Off-the-job
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.

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 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 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.
METAL FABRICATION AND PLUMBING TRADES COURSES

D123
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.

D125
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 FÁS. The course is based on the syllabus for foundry craft studies of the City & Guilds of London Institute and normally entails attending four Block Release courses, each of 11 weeks duration spread over a 4 year cycle.

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

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

Entrance Requirements
Employed as an apprentice in the Foundry Industry.

D129
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.

Entrance Requirements
Employment as a Sheet Metalwork apprentice.
PLUMBING: Day Release
This course requires attendance on one day per week over four years. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education with endorsements. The Junior Examination is taken after two years and the Senior Examination after four years. Students who complete the course satisfactorily can proceed to more advanced courses leading to the craft-based Technician Certificate Course in Plumbing.

Entrance Requirements
Employment as a Plumbing Apprentice.

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

Entrance Requirements
Enrolment as an apprentice to an approved Training Centre.

ENGINEERING TRADES COURSES

FITTING,TURNING & MAINTENANCE SYSTEMS: Day Release
Objective
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
Apprenticeship to the Trade.

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
Enrolment as an apprentice in an approved Training Centre.
D141 FITTING/TURNING AND MAINTENANCE SYSTEMS: Block Release
This Course is designed for Fitters/Turners and General Maintenance Fitters.

Objective
Department of Education Junior and Senior Trade Certificates in Fitting and Turning with endorsement and City & Guilds Certificate in Engineering Systems Maintenance Competences.

Duration of Course
Four years of Block Release (11 weeks each year).

Subjects

Entrance Qualifications
Apprenticeship to the Trade.

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
Apprenticeship to the Trade.

D154 AIRCRAFT ENGINEERING APPRENTICES COURSE: Sandwich
This two year sandwich course aims to train apprentices already employed in the Aeronautical Engineering Industry as Aircraft technicians capable of achieving the ICAO Maintenance Engineers' Licence issued by the Department of Tourism & Transport. Students attend the College on a full-time basis from September to June and spend the remainder of the year working in the Aircraft Industry.

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

Course of Study

Mr. Garreth O’Donnell, after receiving two City and Guilds first place medals in the Mechanical Technicians course with Mr. Jim Stearn of City and Guilds and Mr. Alan Kelly of Fry Cadbury’s (his employers). Mr. O’Donnell is now pursuing the degree course in Mechanical Engineering.
Examinations 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 Competence Part I Certificate.

(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 Certificate and Aeronautical Engineering Technician’s Certificate Part I.

Department in Charge
Transport Engineering.

GENERAL AIRCRAFT ENGINEERING APPRENTICES COURSE — DAY OR BLOCK RELEASE

Objective
This is a block or equivalent day release course to prepare Aircraft apprentices for the Department of Tourism & Transport Aeronautical Engineering Certificates, Parts 1, 2, 3 and 4, City & Guilds Aeronautical Craft Studies Certificate or appropriate Trade Certificate of the Department of Education.

Duration of Course
Block release or equivalent day release over 3 years.

Department in Charge
Transport Engineering.

HEAVY VEHICLE MECHANICS: Off-the-job

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

Duration of Course
One year of 36 weeks.

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

Subjects

Entrance Qualifications
Enrolment as an apprentice in an approved Training Centre.

HEAVY VEHICLE MECHANICS: Block Release

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

Duration of Course
Block release for 11 weeks each year (32½ hours per week) over four years.

Subjects

Entrance Qualifications
Apprenticeship to the Trade.

HEAVY VEHICLE MECHANICS: Day Release

Objective
Department of Education Junior and Senior Trade Certificates with endorsement subjects and the City & Guilds of London Craft Certificate 381 Part I.

Duration of Course
Four years of 38 weeks each year.

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

Subjects

Entrance Qualifications
Apprenticeship to Trade.

MOTOR CYCLE MECHANICS

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

Duration of Course
Two years of 38 weeks each year.

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

Subjects

Entrance Qualifications
Day Vocational Group Certificate or Intermediate Certificate.
D167A

LIGHT VEHICLE MECHANICS: Off-the-job

Objective
Department of Education Junior Trade Certificate with endorsement subjects.

Duration of Course
One year over 36 weeks.

Attendance
One week (35 hours) every 3 weeks for first year. One day (7 hours) and two evenings (6 hours) each successive year.

Subjects

Entrance Qualifications
Enrolment as an apprentice in an approved Training Centre

D167B

LIGHT VEHICLE MECHANICS: Block Release

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

Duration of Course
Block Release for 11 weeks during each year of apprenticeship with attendance at College for 35 hours each week.

Subjects

Entrance Qualifications
Apprenticeship to the Trade.

D167C

LIGHT VEHICLE MECHANICS: Day Release

Objective
Department of Education Junior and Senior Trade Certificates plus endorsement subjects and the City and Guilds of London Craft Certificate.

Duration of Course
4 years of 38 weeks each year.

Attendance
1 day (7 hours) and 2 evenings (6 hours) each week.

Subjects

Entrance Qualifications
Apprenticeship to the Trade.

D167D

LIGHT VEHICLE MECHANICS: Off-the-job (One and a half Day Release)

Objective
Department of Education Junior Trade Certificate with endorsement subjects.

Duration of Course
One year over 38 weeks.

Attendance
One and a Half Days (10 hours) and one Evening (3 hours) each week.

Subjects

Entrance Qualifications
Enrolment as an apprentice in an approved Training Centre.
LIGHT VEHICLE MECHANICS: Two Day Release

Objective
Department of Education Senior Trade Certificate with endorsement subjects.

Duration of Course
Two years of 38 weeks.

Attendance
Two days (14 hours) each week.

Subjects

Entrance Qualifications
Department of Education Junior Trade Certificate.

CONSTRUCTION PLANT FITTERS COURSE: Off-the-job

Objective
The City & Guilds of London Institute 620, Part I.

Duration of Course
One year over 36 weeks.

Attendance
One week (35 hours) every 3 weeks.

Subjects

Entrance Qualifications
Enrolment as an apprentice in an approved Training Centre.

CONSTRUCTION PLANT FITTERS: Block Release

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

Duration of Course
Block Release Course of 11 weeks during each year of apprenticeship with attendance at College for 35 hours each week.

Subjects

Entrance Qualifications
Apprenticeship to the Trade.

CONSTRUCTION PLANT FITTERS COURSE: Day Release

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

Duration of Course
4 years of 38 weeks each year.

Attendance
1 day (7 hours) and 2 evenings (6 hours) each week.

Subjects

Entrance Qualifications
Apprenticeship to the Trade.
MOTOR VEHICLE PARTS PERSONNEL

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

Duration of Course
2 years part-time day and evening course (9 hours per week).

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

Entrance Qualifications
Apprenticeship to the Trade.

LIGHT VEHICLE BODY REPAIR: Day Release

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

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

Subjects

Entrance Qualifications
Apprentice to the Trade.

LIGHT VEHICLE BODY REPAIR: Off-the-job

Objective
The City & Guilds of London Institute 385 Certificate.

Duration of Course
Six months part-time day (7 hours) and two evenings (6 hours) each week.

Subjects

Entrance Qualifications
Enrolment as an apprentice in an approved Training Centre.

LIGHT VEHICLE BODY REPAIR: Block Release

Objective
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
Apprenticeship to the Trade.

AUTOMOBILE ENGINEERING

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

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

Subjects

Entrance Qualifications
Apprenticeship to the Trade.
PRINTING TRADES COURSES

D190

COMPOSITORS' WORK: Block Release
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 in Compositors Work.

Entrance Requirements
Apprenticeship to the Trade.

D191

BOOKBINDING: Block Release
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 in Bookbinding.

Entrance Requirements
Apprenticeship to the Trade.

D192

LITHOGRAPHY: Block Release
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 in Lithography.

Entrance Requirements
Apprenticeship to the Trade.

D193

GRAPHIC REPRODUCTION: Block Release
First year attendance: twenty three weeks.
Second year attendance: eight weeks.
Third year attendance: eight weeks.
Students are prepared for appropriate examinations.

Entrance Requirements
Apprenticeship to the Trade.
STUDENT DISCIPLINE

1. Students are expected to participate in College activities in a manner conclusive 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 the College.
4. Students must at all times obey the lawful instructions of lecturers and other members of the college staff who are responsible for the maintenance of good order.
5. Misconduct in any of the Colleges comprising the Institute may lead to suspension by the College Principal of the student or students concerned.
6. Students are liable for the cost of repair or replacement of Institute or College property maliciously or negligently damaged by them.
7. Students are not allowed to smoke in 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. Students are forbidden to park cars/bicycles/motor cycles except in such places as they are authorised to do so from time to time.

FOR FURTHER INFORMATION

Enquirers seeking further information about Day or Block Release apprenticeship and other craft-related courses provided by the college should contact Departments as follows:

Department of Building Trades 'A' - Courses D101 - D111 inclusive.
Department of Building Trades 'B' - Courses D121 - D122 inclusive.
Department of Metal Fabrication & Plumbing - Courses D131 - D142 inclusive.
Department of Engineering Trades - Courses D143 - D145 inclusive.
Department of Transport Engineering - Courses D154 - D176 inclusive.
Department of Printing and Graphic Communication - Courses D190 - D193 inclusive.

College Telephone Number 727177

Senior Staff in the Apprenticeship area of the College

Vice Principal — School of Trades
Head of the School of Construction Trades
Department of Building Trades 'A'
Department of Building Trades 'B'
Department of Metal Fabrication & Plumbing
Department of Engineering Trades
Department of Transport Engineering
Department of Printing & Graphic Reproduction
Department of Science, Mathematics & General Studies
*Head of Department.

Matthew P. Farrell (ext. 504)
Joseph Bernie (ext. 505)
Frederick Hosford (ext. 512)
Joseph Lawlor (ext. 511)
*Patrick Kelly (ext. 520)
James Kelly (ext. 521)
Charles Hurley (ext. 542)
Seamus Murran (ext. 531)
*Robert Eustace (ext. 202)
Joseph Shiels (ext. 204)
*Dominick Tuite (ext. 120)
Kenneth Bracken (ext. 118)
William Brazil (ext. 552)
*Brian Kennedy (ext. 220)
John Foley (ext. 216)
Philip Murray (ext. 532)

The College also provides a number of Evening courses which may assist those who wish to resit for elements of the Senior Trade examinations in which they have not been successful so far or to broaden or enhance their qualifications. Details of these courses are provided in a separate section of the College prospectus, in leaflets or in another publication available on request.
PART TIME
DAY AND EVENING
COURSES

CITY OF DUBLIN
VOCATIONAL EDUCATION COMMITTEE

DUBLIN INSTITUTE
OF TECHNOLOGY

COLLEGE OF TECHNOLOGY
BOLTON STREET
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PART-TIME DAY AND EVENING COURSES — CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT

INTRODUCTION
The College has a strong commitment to providing a wide range of part-time day and/or evening courses relating to its main specialisations in Construction Engineering and Printing disciplines and associated areas. The aim of these courses is to provide both young people, and the not so young with opportunities to achieve worthwhile qualifications and to enhance and broaden their existing qualifications base.

Some of the part-time courses offered by the College parallel those available on a whole-time basis and enable those who enrol in them to achieve the same qualifications as those pursuing them through full-time studies. Not surprisingly the part-time route takes a little longer and involves a considerable commitment on the part of those who combine their studies with full-time employment.

The part-time courses offered by the College have enabled many past students to advance in their careers by exploiting the educational ladders which they provide. In this way successive generations of craftpersons have progressed to supervisory and technician positions, technicians have moved on to professional levels, while professionals have advanced their status to managerial or other senior positions, all greatly assisted by the courses they have followed. Some have also used them to change their career path to another specialisation or by updating their expertise in the new technologies and other advances.

The College is anxious to respond in a flexible manner to the needs of its potential part-time students. It offers some courses on either a part-time day or evening basis on through a combination of these modes. It finds that many employers are very supportive of students pursuing relevant part-time courses, paying their tuition fees, releasing them and/or facilitating them when they have to undertake course work or study.

If you are interested in pursuing studies on a part-time basis you are encouraged to review carefully the range of programmes offered by the College in Construction, Engineering, Printing, Transport or related disciplines as described in this publication. If the College is not offering the course which you are looking for and you feel that there is a significant demand for it you are invited to bring it to the attention of the appropriate Head of Department or other senior college staff. In this context the College welcomes proposals from groups of potential students or employers regarding the establishment of new courses.

TUITION FEES
The College offers most of its programmes at moderate tuition fees although in some areas for budgetary reasons they have to be set at an economic level. These fees are set out below and are payable in full on enrolment and before attendance at the first class. Fees are not refundable except where a class does not form due to a low level of enrolment, etc.

ENROLMENT FEES FOR PART-TIME DAY AND EVENING COURSES IN THE 1991/92 SESSION

| Part-time Day and Evening Courses: | £192 |
| D28; D41; D43C; D43M; D43V; D47; D120; D132; D174; D2000 |

| General Evening Courses | £290 |
| E71; E72; E81; E82; E141G |
| E141D; E141E; E141F; E195C |

| Other Evening Courses | £145 |
| £200 |
| £544 |
| £800 |
| £520 |
| £1,050 |

METHOD OF APPLICATION AND ENROLMENT
The week commencing Monday September 9, 1991 (6.30 p.m.-8.30 p.m. each evening) has been scheduled for enrolment for almost all the part-time day and evening courses offered by the College. Prior application or contact with the College is not necessary. Candidates are encouraged to bring with them evidence of existing qualifications and employment together with the specified tuition fee (or confirmation from an employer willing to pay it when invoiced) to enable them to complete the enrolment if they are acceptable and permitted to do so. Classes are generally scheduled to commence during the week commencing September 23 and those who have enrolled will be expected to report for classes in accordance with the schedule which will be available.
CONSTRUCTION TECHNICIAN CERTIFICATE/DIPLOMA PART-TIME

This day release course is similar to the wholetime Construction Technician Certificate/Diploma course (B114) and leads to the award of the Construction Technician’s Certificate/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 and English or an equivalent qualification.

(b) Appropriate employment in the Construction Industry.

Department in Charge
Surveying and Building Technology.

DIPLOMA/DEGREE IN CONSTRUCTION ECONOMICS PART-TIME

This day release course is similar to the corresponding wholetime course (B111) and leads to the award of a Diploma/Degree in Construction Economics. Classes are scheduled on one day and two evenings per week over a period of six years. The academic entry qualifications to the First Year of the course are similar to these for B111. Candidates holding relevant technician qualifications at an appropriate level may be eligible for exemptions from one or more years of the course. Candidates must be in appropriate employment in the Construction Industry.

Department in Charge
Surveying & 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. It is expected that the course will be offered in the 1991/92 session and that it will be repeated every second year subsequently.

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.

Exempted students will be deemed to enrol in course E5A.
Course of Study
The course comprises of three taught modules and two seminars. The taught modules are: (a) Legal Principles, Civil Procedure & Evidence (b) Contract & Tort and (c) Arbitration Law & Procedure. Alternative Methods of Dispute Resolution. The two seminars which are organised by the Irish Branch of the Chartered Institute of Arbitrators deal with: (i) Introduction to Arbitration and (ii) ADR and Award Writing. They are subject to a separate fee payable to the Irish Branch of the Institute.

Examinations & Awards
On successful completion of course 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.

Department 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 law and procedures. It has been developed at the request of and in co-operation with the Irish Branch of the Chartered Institute of Arbitrators and will next be offered in the 1992/93 session.

Entrance Requirements
Application will be open to those holding the DIT Diploma in Arbitration Law, Fellows of the Chartered Institute of Arbitrators and those who have passed Parts I and II of the examinations of that Institute. Selection will be subject to interview.

Course of Study
The course comprises two taught modules and four special seminars. The taught modules are: (a) Comparative Law & Procedure; (b) International Arbitration, Practice & Procedure. The special intensive two day seminars are led and directed by visiting specialist lecturers and are organised by the Irish branch of the Chartered Institute of Arbitrators.

On successful completion of the course students will be awarded the Dublin Institute of Technology Graduate Diploma in International Arbitration Law.

Department in Charge
Surveying & Building Technology.

E7 GRADUATE DIPLOMA IN PLANNING AND DEVELOPMENT ECONOMICS
The objective of this part-time post-graduate course, which extends over two academic years, 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.
and
(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 presented at the end of Year II.

On successful completion of the course, students are expected to quality for the award of a Dublin Institute of Technology Graduate Diploma in Land Use Economics. Exemption will be sought for holders of this Diploma from the Part II and III examinations of the Planning and Development Division of the Royal Institution of Chartered Surveyors.

Department 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 not offered every 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 offered in the 1991/92 session if the demand justifies it.

**Course of Study**
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.

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

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GRADUATE COURSES IN ENGINEERING

A day and/or evening 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 subjects in 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.

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.

**Department in Charge**
Engineering Technology.
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 the corresponding whole-time 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 subjects.

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.

Department in Charge
Engineering Technology

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


Department in Charge
Engineering Technology

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 the corresponding whole-time 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 subjects.

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.

Examinations and Other Requirements
At the end of each 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 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.

Department in Charge
Engineering Technology.

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 may be 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.


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 the corresponding whole time 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 subjects.
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.

Department in Charge
Engineering Technology.

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

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

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

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

Department in Charge
Engineering Technology.

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.

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 IIEI/Engineering Council examinations, or equivalent, together with at least one year of suitable post-graduate experience in a structural design office.

Department in Charge
Engineering Technology.

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.

Department in Charge
Engineering Technology.

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.

Department in Charge
Engineering Technology.

SHORT COURSE PROGRAMME

A series of 1-5 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) CAD/CAM
(e) New Developments in Welding Technology;
(f) Fuel Technology;
(g) Fire Safety;
(h) Structural Design Codes;
(i) New Materials;
(k) Water Pollution Control;
(l) Energy Conservation;
(m) Engineering Costing and Estimating.

Department in Charge
Engineering Technology.
MAINTENANCE TECHNOLOGY CERTIFICATE COURSE

AIMS OF THE COURSE
This course will provide participants with a knowledge of maintenance strategies and with the knowledge and skills to cope with the demands of modern maintenance requirements.

The course is organised on a modular basis and has considerable flexibility for craftsmen and other maintenance staff to enhance their qualifications.

ENTRANCE REQUIREMENTS
Leaving Certificate in five subjects including English and Mathematics or appropriate Senior Trades Certificate with endorsements or equivalent qualifications or mature applicants. Participants should have at least three years experience performing plant maintenance duties.

CERTIFICATION
Certification will be provided by the National Council for Educational Awards and the course is offered in the NCEA ACCS mode to allow participants to study for individual subjects, groups of subjects or the entire course programme.

CERTIFICATION will be provided on a technology option basis. With the requisite technology option and core subjects satisfactorily completed this will lead to the award of National Certificate in Technology, Maintenance Technology.

COURSE OF STUDY
The following technology options and core subjects are initially being offered subject to demand.

Common Core Subjects
Mathematics, Computer Science, Maintenance Organisation

Fluid Power Technology Option
Fluid Power Sciences.
Fluid Power Plant 1

Refrigeration & Air Conditioning Option
Basic Heat, Fundamentals of Refrigeration

Department in Charge
Engineering Technology

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 9th. 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.

Department in Charge
Science, Mathematics and Computing.
### COMPUTER PROGRAMMING

**Course Content**
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**

**Application Procedure**
Applicants must present themselves at the College between 6.30 p.m. and 8.00 p.m. during the week commencing September 9th. Proof of qualification for entry must be furnished by applicants.

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

**Department in Charge**
Science, Mathematics and Computing.

### AUTOCAD

**Course Content**
This is a one year evening course to prepare students for the City & Guilds of London Institute Examinations 4352 'Customising AutoCAD' or 4353 'Three dimensional drafting'.

**Entrance Requirements**
- Leaving Certificate or equivalent.
- Students must be employed in a technical position with access to a CAD system running AutoCAD Release 11.
- City & Guilds 4351 Introductory AutoCAD or equivalent.

**Course Content**
- Customising AutoCAD by altering the standard menus; the use of simple LISP command to create new commands; the use of font files; the creation, modification and presentation possibilities available with the three dimensional capabilities offered by AutoCAD Release 11.

**Application Procedure**
Entry to this course is NOT on a first come, first served basis. Applicants should present themselves for interview between 6.30 p.m. and 8.00 p.m. any evening (Mon. — Thurs.) of the week commencing Mon. 9th September. Only those with written evidence of (a) and (b) above will be considered for the limited number of places available for this course.

**Department in Charge**
Science, Mathematics and Computing.
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'
E119, D120, E120, E121, E122A, E122B

Department of Metal Fabrication & Plumbing

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

Department of Transport Engineering

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.

E101 BRICKWORK
This course is designed to assist students to prepare for the Senior Trade Certificate Examinations of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

Duration One year, one evening per week.

Subjects Trade Theory & Drawing.

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

E102 PLASTERING
This course is designed to assist students to prepare for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

Duration One year, one evening per week.

Subjects Trade Theory & Drawing.

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

E105 PAINTING AND DECORATING

Objective 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.
**E106** SIGNWORK — ADVANCED

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

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

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

**E107** 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.

**E119** CONSTRUCTION TECHNICIAN COURSE

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

**Course Duration**
3 years — 3 evenings per week.

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

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

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

Success in the Intermediate Stage Examination is a requirement for entry into the Final Year of the Course.

**Subjects**
1st Year Building Construction, Mathematics and Geometry.
2nd Year Building Construction, Builders Quantities, Land Surveying and Setting-out, Plane and Solid Geometry.
3rd Year Building Construction, Builders Quantities, Plane and Solid Geometry.

**E111** CABINETMAKING/CHAIRMAKING

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

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

**Subjects**
Trade Theory & Drawing.

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

**D120** CRAFT TECHNICIAN COURSE IN BUILDING

This course may be offered on a day-release and evening attendance basis in the 1991/92 session. See course E120 for further details.

**E120** 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:

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

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.

D123
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.

E123A
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.

E123B
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.

**E123C 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.

**E123D 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.

**E125 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.

**E128 CRAFT TECHNICIAN CERTIFICATE COURSE IN METAL FABRICATION & WELDING**

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

Course of Study

- **Stage I:** Drawing, Materials & Process Technology, Mathematics and Engineering Science.
- **Stage II:** Drawing, Process Technology and Testing, Mathematics, Engineering Science and Computer Studies.

**Stage III:** Plant Maintenance and Ancillary Services, Inspection Testing and Quality Control, Principles of Management, Mathematics, Computer-Aided Manufacture, Engineering Science.

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

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

**E129A SHEET METAL WORK**

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.

**E129B SHEET METAL WORK — UPDATING OF SKILLS**

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

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

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

Entrance Requirements
Employment in the Sheet Metal Industry.

**E130 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.
**E131 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.

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.

**E139 ENGINEERING QUALITY CONTROL**
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.

**Objective**
The City & Guilds of London Institute Parts I & II, 743 Quality Control Certificate.

**Course Duration**
One year.

**Entry Qualifications**
Craft, Technician and Supervisory personnel with suitable background.

**E140 ENGINEERING SYSTEMS MAINTENANCE COMPETENCES**
This course is designed for apprentices, craftsmen and technicians who already have a competence in General Maintenance Technology and Maintenance Organisation.

There is a choice of additional course elements available for City & Guilds Part II sub systems options as follows:

- **E140C ENGINEERING SYSTEMS MAINTENANCE — PNEUMATICS**
- **E140D ENGINEERING SYSTEMS MAINTENANCE — HYDRAULICS**
- **E140F ENGINEERING SYSTEMS MAINTENANCE — ORGANISATION**
- **E140G ENGINEERING SYSTEMS MAINTENANCE — ELECTRICAL**

**Objective**
City & Guilds of London Institute Part II — 214 Certificate on Engineering Systems Maintenance Competences. Candidates who successfully complete each element will be issued with a record of achievement and will qualify for the Certificate when they have achieved success in the two core elements and any three sub systems.

**Course Duration**
One evening per week for each element.
E141 COMPUTER-AIDED ENGINEERING

Objective
A series of short courses for those requiring an understanding of new engineering technologies and their implications — City and Guilds 2302 scheme.

E141A Basic NC/CNC
E141B Basic CAD/CAM.
E141C Basic Robotics

Course Duration
10 weeks — one evening per week or an alternate daytime arrangement, depending on demand.

Entrance Qualifications
Applicants should have a suitable engineering background as craftsmen, technicians or other technical positions.

Objective
NC/CNC Machine Setting and Operation
This is a one-year course to prepare mechanical engineering craftspersons for the City & Guilds 2303 Level III Certificate.

Objective
NC/CNC — Part Programming
The City & Guilds of London Institute 2303 Level III Certificate.

Objective
NC/CNC — Advanced Part Programming
The City & Guilds of London Institute 2304 Level IV Certificate.

Objective
CITY & GUILDS OF LONDON INSTITUTE 2303 LEVEL III CERTIFICATE.

Objective
The City & Guilds of London Institute Mechanical Engineering Drafting 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.

Subject Options
Two different options may be offered at Part II as follows:
- E142A Machining
- E142B Maintenance

Four different options may be offered at Part III as follows:
- E142C Factory Services (Maintenance)
- E142D Machining
- E142E Toolmaking
- E142F Inspection

Objective
Computer Aided Draughting
City & Guilds of London Institute 2304 Level III Certificate.

Course Duration
One year (one evening per week).

Entrance Qualifications
Familiarity with conventional draughting skills.

Objective
MECHANICAL ENGINEERING CRAFT STUDIES

Course Duration
Two years (2 evenings per week)

Subject Options
Two different options may be offered at Part II as follows:
- E142A Machining
- E142B Maintenance

Four different options may be offered at Part III as follows:
- E142C Factory Services (Maintenance)
- E142D Machining
- E142E Toolmaking
- E142F Inspection
Entrance Qualifications
First Year: Department of Education Junior Trade Certificate or equivalent and current attendance on block or day release courses.
Second Year: City & Guilds of London Institute 205, Part II or equivalent.

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.

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.

Duration of Course
1 year, 2 evenings per week.

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).

MAINTENANCE ENGINEERS' LICENCES OF THE DEPARTMENT OF TOURISM & TRANSPORT

<table>
<thead>
<tr>
<th>E152A</th>
<th>'A' LICENCE — B.A.C.1 - 11 AC LICENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>E152B</td>
<td>F27 MARK 050 AND P &amp; W 125 ENGINE</td>
</tr>
<tr>
<td>E152C</td>
<td>'A' LICENCE — B737</td>
</tr>
<tr>
<td>E152D</td>
<td>'A' LICENCE — B747</td>
</tr>
<tr>
<td>E152E</td>
<td>'A' LICENCE — B727</td>
</tr>
<tr>
<td>E152G</td>
<td>'C' LICENCE — P &amp; W JT8D</td>
</tr>
</tbody>
</table>

E152H  'C' LICENCE — P & W JT9D
E152J  'C' LICENCE — ROLLS ROYCE SPEY
E152M  'X' LICENCE — INSTRUMENTS
E152N  'X' LICENCE — ELECTRICAL
E152P  'X' LICENCE — RADIO
E152Q  'X' LICENCE — RADIO (RADAR ENDORSEMENT)
E152K  SHORTS 360 AIRCRAFT AND PT6 ENGINE
E152R  'X' LICENCES — AVIONICS
E152S  B 737 CONVERSION AND CFM 56 ENGINE.
E152T  B737 — 200/300 DIFFERENCES COURSE.
E152U  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.

JET ENGINE OVERHAUL PROCEDURES
This course provides instruction in Jet Engine design and overhaul procedures.

Duration of Course
1 year, 1 evening per week.

AERONAUTICAL ENGINEERING CRAFT STUDIES

Stage 1
This is a one year course requiring attendance for two evenings (6 hours) weekly per session. The course is designed to prepare students for Part I of the City and Guilds of London Institute Examinations in Aeronautical Engineering Industry.

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

Stage 2 (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.
Entrance Requirements

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

**E155 BASIC AERONAUTICAL ENGINEERING CERTIFICATES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E155B</td>
<td>AIRFRAMES PRESSURISED (B.A.E.C.2)</td>
</tr>
<tr>
<td>E155C</td>
<td>PISTON ENGINES (B.A.E.C.3)</td>
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<tr>
<td>E155D</td>
<td>TURBO - PROP &amp; TURBO - JET ENGINES (B.A.E.C.4)</td>
</tr>
<tr>
<td>E155E</td>
<td>HELICOPTERS (LESS ENGINES) (B.A.E.C.5)</td>
</tr>
<tr>
<td>E155F</td>
<td>ELECTRICAL (B.A.E.C.6)</td>
</tr>
<tr>
<td>E155G</td>
<td>RADIO (B.A.E.C.7)</td>
</tr>
<tr>
<td>E155H</td>
<td>INSTRUMENTS (B.A.E.C.8)</td>
</tr>
</tbody>
</table>

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.

**E156A PRIVATE AIRCRAFT PILOT'S LICENCE**

This course provides 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.

Duration of Course

1 year, one evening per week.

**E156B PRIVATE PILOTS LICENCE (INSTRUMENT RATING)**

This course provides instruction for personnel who already hold a Private Licence and wish to take the Department of Tourism and Transport Private Licence Instrument Rating.

Duration of Course

1 year, 1 evening per week.

**E165 MOTOR CYCLE MECHANICS**

Objective

The City & Guilds of London Institute Craft Certificate 389.

Course

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

Subjects


Entrance Requirements

Employment as a motor cycle mechanic.

**E168 CONSTRUCTION PLANT FITTERS**

Objective

The City & Guilds of London Institute Full Craft Certificate 620, Part III.

Course

1 year of 30 weeks, 2 evenings (6 hours) each week.

Duration

Subjects

Power Units and Associated Systems, Vehicle Systems and Vehicle Recovery.

Entrance Qualifications

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

**E170 MOTOR VEHICLE PARTS PERSONNEL**

Objective

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

Duration

Three evenings (9 hours) each week.

**E173A MOTOR VEHICLE CRAFT STUDIES — DIAGNOSTIC TECHNIQUES**

Objective

The City & Guilds of London Institute 381 Part III.

Course

Four years, 30 weeks each year.
<table>
<thead>
<tr>
<th>Subjects</th>
<th>Diagnostic Techniques (engine), Diagnostic Techniques (transmission), Automatic Gearboxes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entrance Qualifications</td>
<td>City &amp; Guilds of London Institute 381 Part II or equivalent.</td>
</tr>
<tr>
<td>E1278</td>
<td><strong>MOTOR VEHICLE CRAFT STUDIES — COMPR ESS I AIR SYSTEMS; C.I. ENGINES; FUEL INJECTION EQUIPMENT</strong></td>
</tr>
<tr>
<td>Objective</td>
<td>The City &amp; Guilds of London Institute 381 Part III.</td>
</tr>
<tr>
<td>Course Duration</td>
<td>One year of 30 weeks.</td>
</tr>
<tr>
<td>Attendance</td>
<td>Three evenings (9 hours) each week.</td>
</tr>
<tr>
<td>Subjects</td>
<td>Compressed Air Brakes, Compression Ignition Engines, Fuel Injection Equipment, C.I. Engines.</td>
</tr>
<tr>
<td>Entrance Qualifications</td>
<td>City &amp; Guilds of London Institute 381 Part II or equivalent.</td>
</tr>
<tr>
<td>E1273C</td>
<td><strong>MOTOR VEHICLE CRAFT STUDIES — ELECTRICITY/ELECTRONICS</strong></td>
</tr>
<tr>
<td>Objective</td>
<td>The City &amp; Guilds of London Institute 381 Part III.</td>
</tr>
<tr>
<td>Course Duration</td>
<td>One year of 30 weeks.</td>
</tr>
<tr>
<td>Attendance</td>
<td>Three evenings (9 hours) each week.</td>
</tr>
<tr>
<td>Subjects</td>
<td>Motor Vehicle Electricity and Motor Vehicle Electronics.</td>
</tr>
<tr>
<td>Entrance Qualifications</td>
<td>City &amp; Guilds of London Institute 381 Part II or equivalent.</td>
</tr>
<tr>
<td>D174</td>
<td><strong>AUTO-ENGINEERING TECHNICIANS</strong></td>
</tr>
<tr>
<td>Objective</td>
<td>Department of Education Advanced Motor Car Engineering Technological Certificate and the City &amp; Guilds of London Institute Motor Vehicle Technicians Full Technological Certificate (390), Parts II and III.</td>
</tr>
<tr>
<td>Duration of Course</td>
<td>1 year part-time (7 hours) and 2 evenings (6 hours) each week for 38 weeks.</td>
</tr>
</tbody>
</table>

| Entrance Qualifications | Department of Education Senior Trade Certificate with endorsement subjects and Department of Education Intermediate Motor Car Engineering Technological Certificate (2 subjects) or the City & Guilds of London Institute 390, Part I. |
| D176 | **AUTOMOBILE ENGINEERING UPDATING COURSES — CONTINUING EDUCATION PROGRAMME** |
| Objective | Updating of trade personnel in modern developments relating to engines, transmission systems and electronics. |
| Duration of Course | Two days to a few weeks — day and/or evening. |
| Entry Requirements | Senior Trade Certificate in Motor Engineering. |
| E1276 | **AUTOMOBILE ENGINEERING UPDATING COURSE** |
| Objective | Continuing Education Programme. The City & Guilds of London Institute 381, Part III, Modular. |
| Course Duration | Short courses of 3 weeks duration, over two evenings per week, on modern developments and techniques in the industry. |
| Entrance Qualifications | Department of Education Senior Trade Certificate. |
**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.

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**MOTOR INDUSTRY MANAGEMENT STUDIES**

This three year course prepares students for membership examinations of the Institute of the Motor Industry.

**Subjects**  

**Entrance Requirements**  
Leaving Certificate or equivalent qualification. Exemptions to stages of the course may be available to suitably qualified candidates.

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**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.

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**PRINTING AND GRAPHIC COMMUNICATIONS**

**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.

**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.

**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.

**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.
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.

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.

GRAPHIC COMMUNICATIONS — DESIGN

This is a one-year course to prepare students for the Design modules of the City & Guilds of London Institute 524 Certificate in Graphic Communications.

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

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.

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.

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.

LITHOGRAPHY AND PHOTO-LITHOGRAPHY RETRAINING

This is a one year course for personnel employed in the Printing Industry provides instruction in the latest techniques of lithographic plate making and press operation.

ELECTRONIC COMPOSITION

This one year evening course for suitably qualified personnel, deals with a wide range of electronic composition equipment.
E195B  SCANNING/PRINT PLANNING
This is a one year course for suitably qualified personnel, covering aspects of scanning and print planning.

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 may be available for those wishing to pursue computer aided design.

E196  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.

D200  SCREEN PROCESS PRINTING
This is a two year course involving attendance on two half days per week over the session. It trains students in the operation of screen printing presses and in stencil making techniques.

E200  GRAPHIC COMMUNICATIONS — SCREEN PRINTING
This is a one year course which prepares students for the screen modules of the City and Guilds 524 Certificate in Graphic Communications.